Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

P C QUEST
1996 No. 1-7

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

G.K.V. Lib. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

112294

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

JANUARY 1996 Rs 25

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

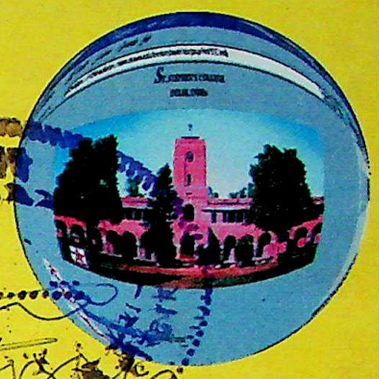
A CYBER MEDIA PUBLICATION

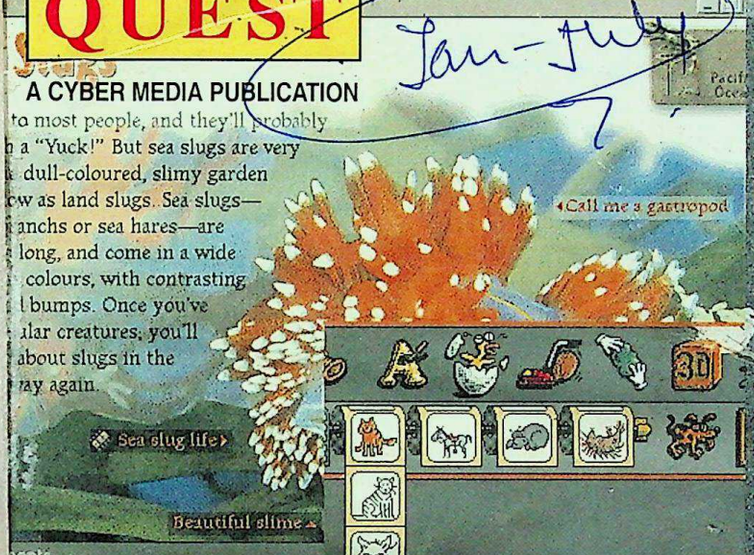
Cool India Sites on The Internet

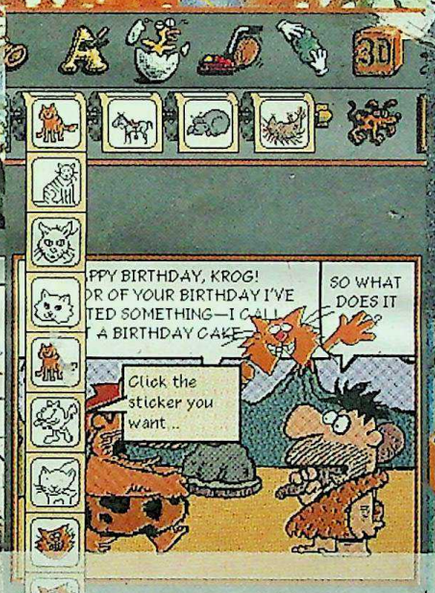
Rapid Apps

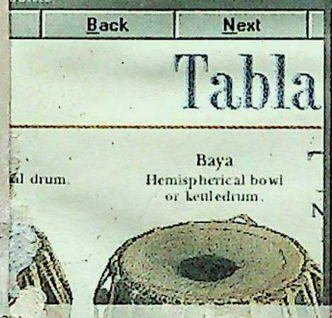
IT Asia '95

The Year 2000 Date Problem









Home Software

CD-ROMs for Home And SOHO Users

Preview: Multimedia Desktops For The Home

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar.

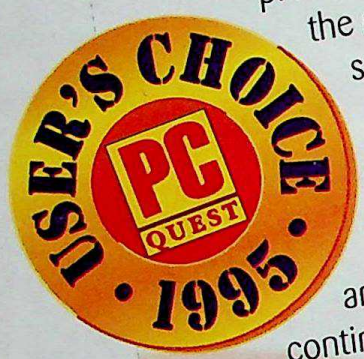
Digitized by Arya Samaj Foundation Chennai and eGangotri

Thank You!

MultiTech Systems
The right answer every time.

To all of our friends and customers throughout India,

"We would like to personally thank you for your ongoing support of our products. Thanks to you, Multi-Tech was awarded top honors in the modem category of the **1995 PC Quest User's Choice** survey. This is the **sixth** consecutive year Multi-Tech has received this distinctive award, and we are extremely grateful for your vote of confidence."



"Those surveyed said that quality is of paramount importance, and that's what you've come to expect from Multi-Tech. As we continue to develop technologically advanced products to meet your changing needs, Multi-Tech's commitment to quality will remain a priority."

"Under our new management and leadership in India, we're looking forward to achieving even higher levels of quality, service and support. We recognize that **you** are the catalyst for our future, and we want to continue to earn your respect and your vote!"

"Please call for more information on Multi-Tech products."

Raghu Sharma

Raghu Sharma
President, Multi-Tech Systems, Inc.

Multi-Tech Systems, Inc. / 2205 Woodale Drive / Mounds View, Minnesota 55112 U.S.A.
(612) 785-3500 / U.S. Fax (612) 785-9874, BBS (612) 785-3702 / Internet Address: http://www.multitech.com

Multi-Tech Computers Private Limited *An affiliate of Multi-Tech Systems, Inc., USA*
C-71, Anand Niketan / New Delhi 110 021 / Tel: (011) 6872396 or 6886948 or 600286 / Fax: (011) 605968 or 6444169
Branch Offices: ***Bombay:*** *(022) 493 4493, 494 9304, Fax 494 9304 /* ***Calcutta:*** *76 3292 /* ***Bangalore:*** *225 6503, Fax 220 5397 /* ***Madras:*** *828 4360*
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar
Trademarks: Multi-Tech: Multi-Tech Systems, Inc. Copyright © 1995, by Multi-Tech Systems, Inc.

112294

World class notebooks, modems and LAN products from GVC now in India!

112294

GVC, the world leader in notebooks, modems, LAN products
d monitors is here in India. Vertex Infotech is proud to bring GVC
d its suite of popular world class products.

Internationally known as one of the largest modem
nufacturers, GVC in the last decade has dedicated itself to helping
man beings realize their dreams in the field of communication. In
past two years, GVC has turned to the production of more
anced PCs and related peripherals, aiming to keep a leading
ce in the realm of C&C.

p-of-the-line notebooks

GVC's notebooks have always delivered the latest technological
akthroughs. The latest offering being launched in India, is the
86DX/DX2/DX4/Pentium based, multimedia notebooks with
anced features like removeable FDD and HDD, Trackball or stick
nter, PC Card (PCMCIA) support and advanced power
nagement. The Pentium based system also has a 4X speed CD-
M drive, optional MPEG card, TV/Video output, Touch-Pad and
lt-in speakers.

C modems... the first choice of OEMs

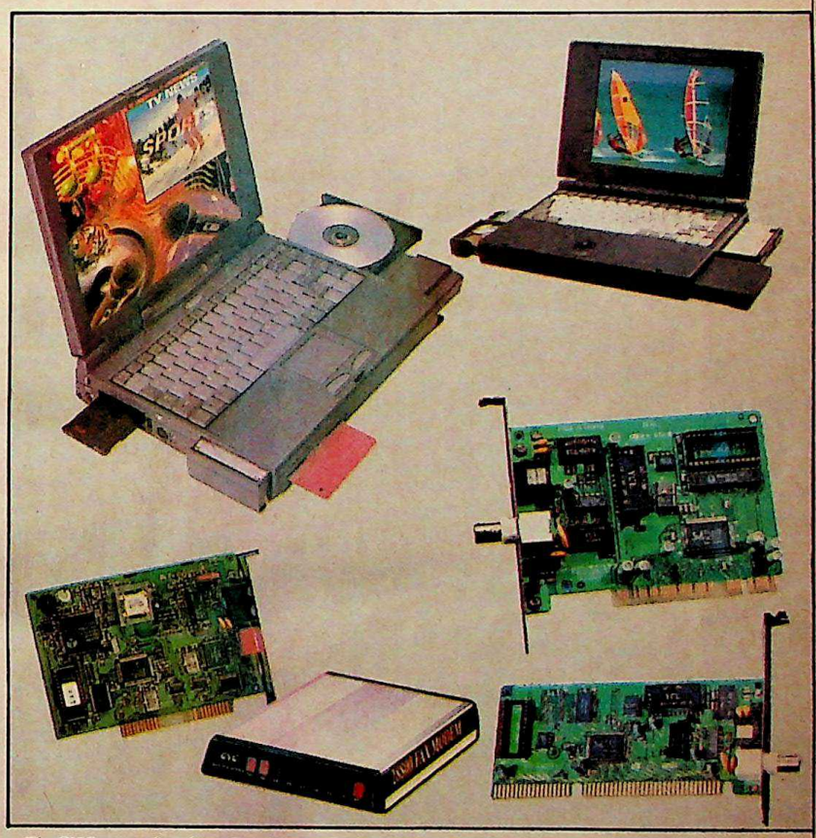
GVC is one of the acknowledged leaders in modem manufacture,
plying modems to the world's largest OEMs. GVC has a range of
rnal, external and PC card (PCMCIA) modems ranging from
0bps to 28.8kbps fax and modems.

C LAN products... the complete LAN solution

Are you ready for high-performance networking! GVC also
rs a range of LAN products from ethernet network adapters,
rnet transceivers, mini-hubs for PCs and network operating
ems.

So if you don't believe in second best, the next time you're
cing for notebooks, modems or LAN products don't settle for
thing but the best ... GVC from Vertex.

***another reason why Vertex is
ur ideal source for computer peripherals***



The GVC range of products Pentium notebooks, 80486DX/DX2/DQ4 notebooks, modems, and LAN products

Official Distributors of GVC Corporation; Taiwan

vertex

VERTEX INFOTECH PVT LTD
MKTG. OFFICE: D-6, QUTAB HOTEL, QUTAB
INSTITUTIONAL AREA, NEW DELHI - 110 016
TEL: 91-11-66 0060 (EXTN D6), 66 4194
HEAD OFFICE: SUITE A9 HIRA MAHAL,
44 AMRITA SHERGILL MARG, NEW DELHI - 110 003
TEL: 91-11-464 6682, 464 6683,
FAX: 91-11-611 6769, 646 8797

WE ARE LOOKING FOR DEALERS ALL OVER INDIA

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AND now, ECIL

ENHANCES its

product range and

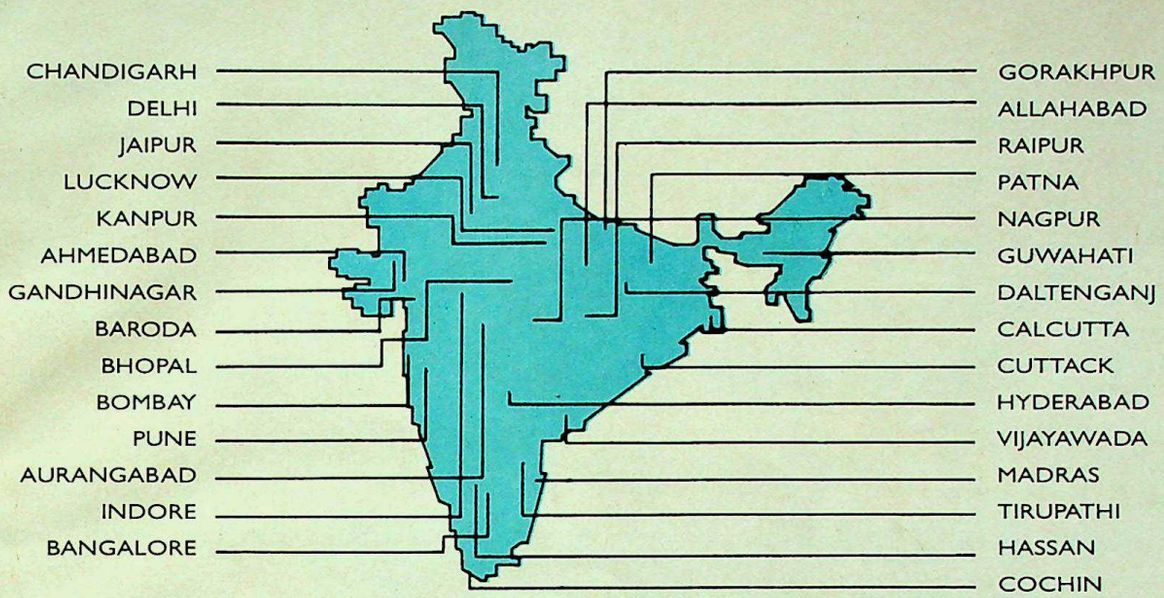
also BRINGS the

WORLD'S BEST..

to your DOORSTEP

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



For your ultimate convenience ECIL has enhanced own product range with the world's best products om international computer giants.

In line with ECIL's commitment to provide the best herever you are, 367 of India's best hardware and ftware engineers spread over 60 offices nationwide are nstantly working towards one objective - *unmatched rvice at your doorstep.*

WE HAVE PARTNERED INTERNATIONAL GIANTS SUCH AS:

TISL IBM Business Partner

TISL-IBM forRS 6000 series servers, workstations and SMP systems (Symmetric Multi Processor Systems)

HEWLETT PACKARD

Hewlett Packard for Desktop PCs, Servers based on 486 and Pentiums, Note Book PCs, Palmtop Computers, Printers, Scanners and Plotters.

AT&T

AT&T for Data Communication equipment and Banking terminals.

इकाEC

ELECTRONICS CORPORATION OF INDIA LIMITED

Computer Group

ECIL Post, Hyderabad- 500 062. India Ph:(040) 620237, 621858
Tlx:0425-7054 Grams: ECCOMPUTER Fax: 040-621858

L ALSO INVITES ENQUIRIES FOR SUB-DEALERSHIP OF PART OF ITS PRODUCT RANGE.

NCH OFFICES: Leeman's Complex, 30/1, Cunningham Road, Bangalore - 560 052. India Ph:(080)2260231, 2267082 Tlx:845-8304 (080) 2250649 ◆ Palika Bhavan, II floor, Sector XIII, R K Puram, New Delhi - 110 066 India Ph: (011) 609448, 608225 Tlx: 031-72384 (011) 608225 ◆ 1207, Veer Savarkar Marg Dadar (Prabhadevi), Bombay - 400 028. India Ph: (022) 4229704 Tlx: 011-71196 Fax: (022) 4302105 70, Anna Salai, Teynampet, Madras - 600 018. India Ph: (044) 4344231, 4340130 Tlx: 44-7142 Fax: (044) 4340130 ◆ 13th floor, Everest House, Chowringhee Road, Calcutta -700 071. India Ph: (033) 2429181 Tlx: 021-2709 Fax: (033)2495523.

1874/95 H

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LANNET

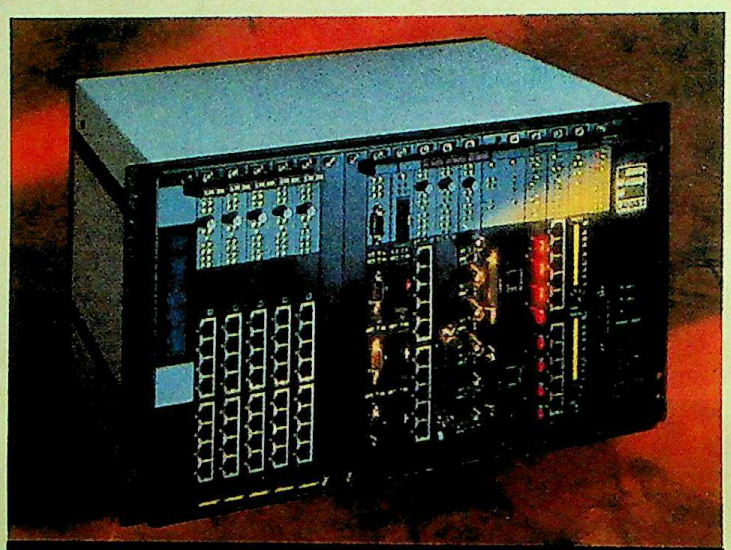
The Thapar Gr

The Open Framework for Network Solutions.

GET THE HUB
with *dynamic* switching now. Or switch hubs later.

Dynamically allocated bandwidth.

It's simply a matter of time before your users demand more bandwidth (if they're not crying for it already). The solution? A MultiNet intelligent hub. With LANswitch™ dynamic switching modules plugged into its 1.28 gigabit backplane, it will turbocharge your existing 10BaseT network.



The MultiNet intelligent hub lets you switch up to 128 dedicated 10mb/sec. Ethernet connections.

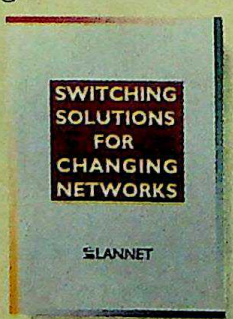
Beyond shared backplanes.

MultiNet supports up to 128 parallel, point-to-point data transfers, bringing ATM-like capabilities to the desktop. So users always feel like they're the only ones on the network.

Create and manage virtual LANs.

MultiNet has point-and-click management that allows you to create or control virtual LANs from your desktop, so you can respond immediately to the ever-changing needs of your network.

And it's all part of a multiprotocol solution that's fault tolerant, ATM-ready, manageable from any open-systems platform and features inter-networking. Sooner or later you'll need more bandwidth, which leaves you with two choices. Get the only hub that's delivering dynamic switching now, or switch later. MultiNet.



Please fax at (080) 6633801 to request your free booklet.

Crompton Greaves LIMITED

CG-INFORMATICS

yes It runs with NetWare

Networking Head Quarters : 4/02, 22nd Cross, 8th Main, III Block, Jayanagar, Bangalore - 560 011. Phone : 080-648055 Fax : 080-6633801

Regional Offices :

West : Kanjur Works, Bombay - 400 042. Phone : 022-5793064/65/66 Fax: 022-5786201

North : 8E, Jhandhewala Extension, Rani Jhansi Road, New Delhi - 110 005. Phone : 011-7533038 Fax: 011-7533038

East : 50, Chowringhee Road, Calcutta - 700 071. Phone : 033-2429681-85 Fax : 033-2429942

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CONTENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

Leading Edge 9

ONLINE

Readers Forum 10

SWAP 119

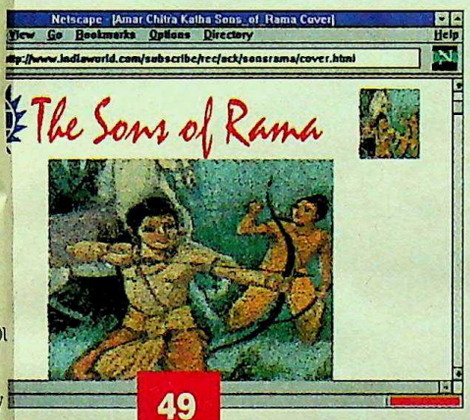
COVER STORY

62 The SOHO PC
Requirements for a typical SOHO setup.

65 Copper To The Home
The days of isolated computing are over. Are you networked? If not here's how.

70 The Comprehensive Home PC Buyers' Guide
An exhaustive list of home PCs.

73 The PCQ 1995 SOHO Survey
An analysis of readers' response.



49

77 The SOHO PCs
A sampling of some multimedia-ready PCs for the SOHO segment.

81 Multimedia CD-ROMs
Reviews of some entertaining CD-ROM titles for adults and children.

104 Apple StyleWriter

106 Wipro Label Printers

81

REVIEWS

121 IAVT 3.0
An average DOS-based anti-virus software.

122 NAV 3.0
The Norton anti-virus is a fast and integrated solution for detecting and curing viruses.

124 LEAP Ver 1
A word processor from C-DAC that supports Indian languages.

129 Logitech Pixtura
An innovative filmless digital camera.

130 Corel Dream 3D
Part of CorelDRAW! 6, Dream 3D is an intuitive and capable modeler for Windows 95.

135 Pocket Hard Disk
A compact 530 MB hard disk that fits in your pocket.

157 AIWA PV-BF288
This World Comm model is a steady, high-speed modem.

129

COLUMNS

Comversations
Atul Chitnis 17

Sequel
Vijainder K Thakur 22

Bottomline
Gautama Ahuja 24

SOFTWARE

RAD With Delphi 31

SPECIAL SECTION

The Year 2000 Date Problem 109

The Y2K Problem 111

EVENT

IT Asia '95 196

LEISURE

Futurewatch 204

NEWS

Pricewatch 137

Marketwatch 159

Product Update 162

Worldwatch 179

NETWATCH

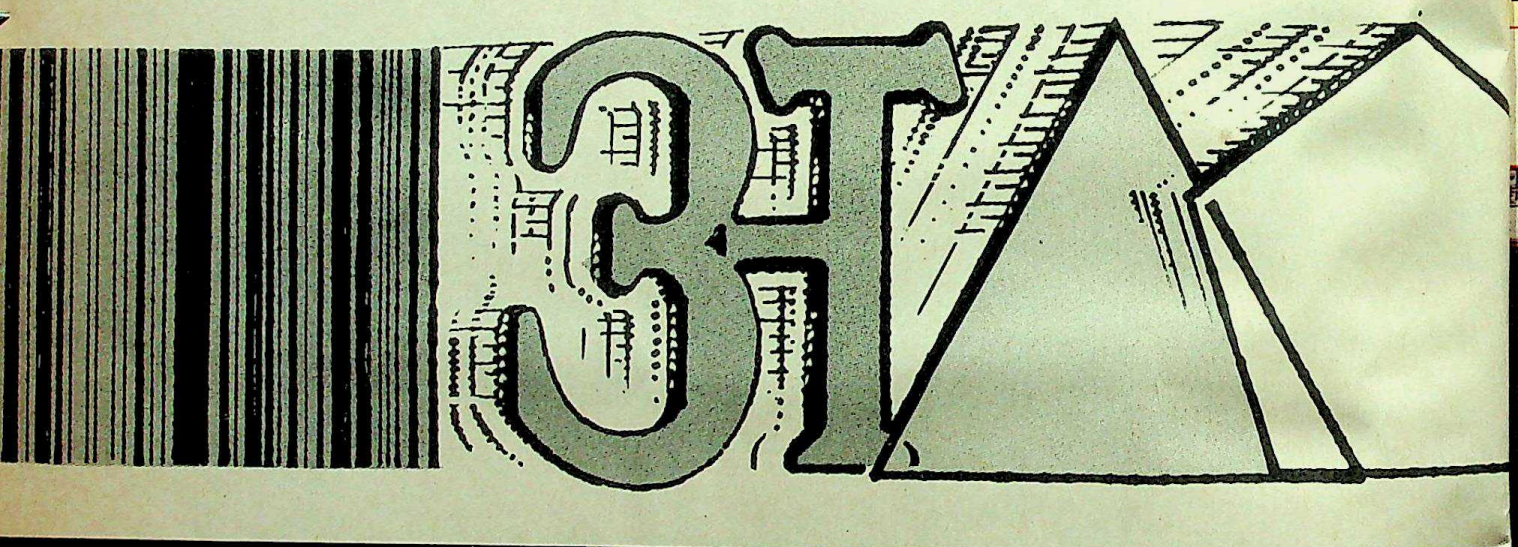
Cool Sites On The Web 49

India Internet 56

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CC-0. Gurukul Kangri Collection, Haridwar

What makes the Printronix Line Matrix printer



so versatile ?

Ahmedabad (0272):*Kidiyoor* Tel: 441628 **Bangalore** (080): *Vinnie Thomas/Dennis Oomen* Tel: 574479 **Bhopal** (0755): *Roopesh Joshi* Tel: 565926, 563207, 563987 **Bombay** (022): *Jayant/L. Ramnath* Tel: 6323597,6323601-04 **Calcutta** (033): *L.A. Khan/Senthil Kumar* Tel: 2426591, 2428489, 2428491, 2425904 **Cochin** (0484): *Manoj Mathew* Tel: 311338, 312379, 310799, 317290 **Delhi** (011): *Prashant Kulkarni/Sudipto Sarkar* Tel: 6468425, 6473253/65/66 **Hyderabad** (040): *Sanjay Oberoi* Tel: 845196, 811478, 845840, 849717 **Madras** (044): *Nataraj/V.S. Gopalakrishnan* Tel: 4998084, 4997251, 4995294, 4995288 **Pune** (0212): *Haresh Bharia* Tel: 325356, 325659, 325541, 323381.

CONTENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

Leading Edge 9

ONLINE
Readers Forum 10
SWAP 83

TECHNOLOGY
Inside Neural Networks 122
The Internet Protocols 129

HANDS-ON
Building Your Home Page 115

NETWATCH
Medicine Internet 33
India Internet 42
Mailing Lists On The Net 46

SOFTWARE
Developing A Bitmap Viewer 26

SPECIAL SECTION
Using VSATs 74

COVER STORY

52 Visual FoxPro 3.0
The popular xBase Platform has now been extended with object-oriented features

56 Delphi 2.0: A First Look
Borland`s popular development tool uses Win 95 architecture to support 64 KB plus datasizes.

65 Lotusphere: Notes Comes To The Net
Lotus Notes R4 has a friendly interface and Internet support

70 Visual dBASE 5.5
A stable and technologically advanced product

REVIEWS

79 Crayola Amazing Art Adventure And Crayola Art Studio
Two painting and fun packages for kids

100 Bernard of Hollywood's Marilyn
Video clips and images of Marilyn Monroe, from Bruno Bernard's collection.

103 Microsoft Ancient Lands
History brought to life? Almost.

107 Microsoft World of Flight
All about aviation.

109 Professor Windows 95
A Win95 training course for beginners.

111 Corel CD Office Companion
Not another office suite.

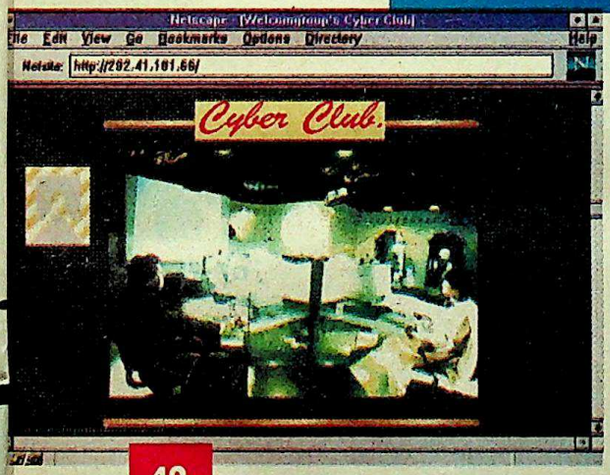
125 IAVT 3.01
An anti-virus DOS package with innovative features, but a somewhat unusual interface

COLUMNS
Comversations
Atul Chitnis 17
Sequel
Vijainder K Thakur 22
Bottom Line
Gautama Ahuja 24

EVENTS
Consumer Electronics 176

LEISURE
Humor 179

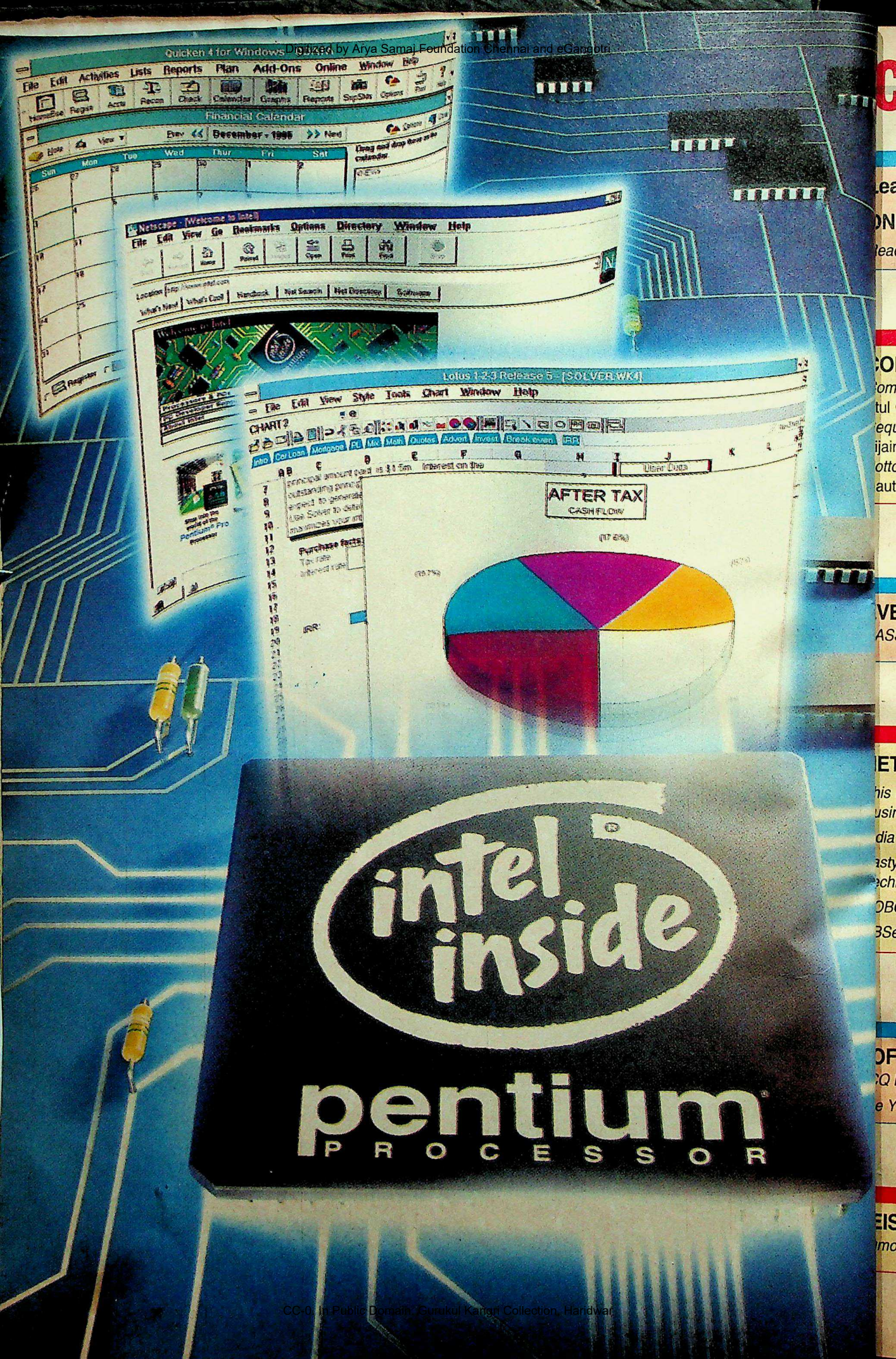
NEWS
Marketwatch 127
Pricewatch 131
Product Update 152
Worldwatch 159



42

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CONTENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

Leading Edge 9

ONLINE
Readers Forum 10

COLUMNS
Comversations 19
Atul Chitnis
Sequel
Vijainder K Thakur 24
Bottomline
Gautama Ahuja 26

EVENTS
COMDEX '96 30

NETWATCH
This Multimedia
Business 65
India Internet 70
Tasty Bits From The
Technology Front 74
BOBOX 81
BBSes In India 86

SOFTWARE
PCQ Labs Setup Utility 91
The Year 2000 FAQ 203

LEISURE
Humor 212

COVER STORY

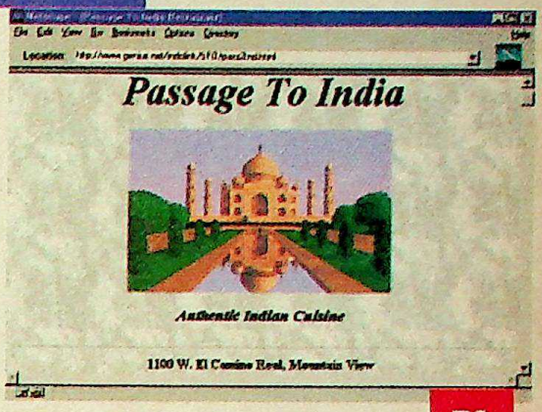
38 OS/2 Warp: New Developments
New avatars of IBM's 32-bit operating system

40 Networking In Win 95
Stream International answers some questions on Win 95's networking capabilities

45 Installing Win 95
How to install Win 95 without tears

49 The Complete Linux Kit
A book and CD-ROM for Linux enthusiasts

50 Slackware Linux
Have fun with this free and user-friendly OS



70

SPECIAL SECTION

57 The PCQ Spring 1996 CD-ROM

61 Shareware Snapshots

REVIEWS

102 TYIN 2000

105 1Nova Modem 144

107 Logitech TrackMan Voyager

108 Joy For The Gamers

110 Pointing Devices

112 SamTec Expor P54C Notebook

116 HP CopyJet M

119 Magic School Bus The Human Body

123 Jazz Jackrabbit

124 Windows 95 For The Technically Challenged

126 Adventures With Edison

128 LearnIT Windows 95 Interactive Training

130 The Way Things Work

132 Eyewitness Encyclopedia Of Science

134 Encyclopedia Of Nature

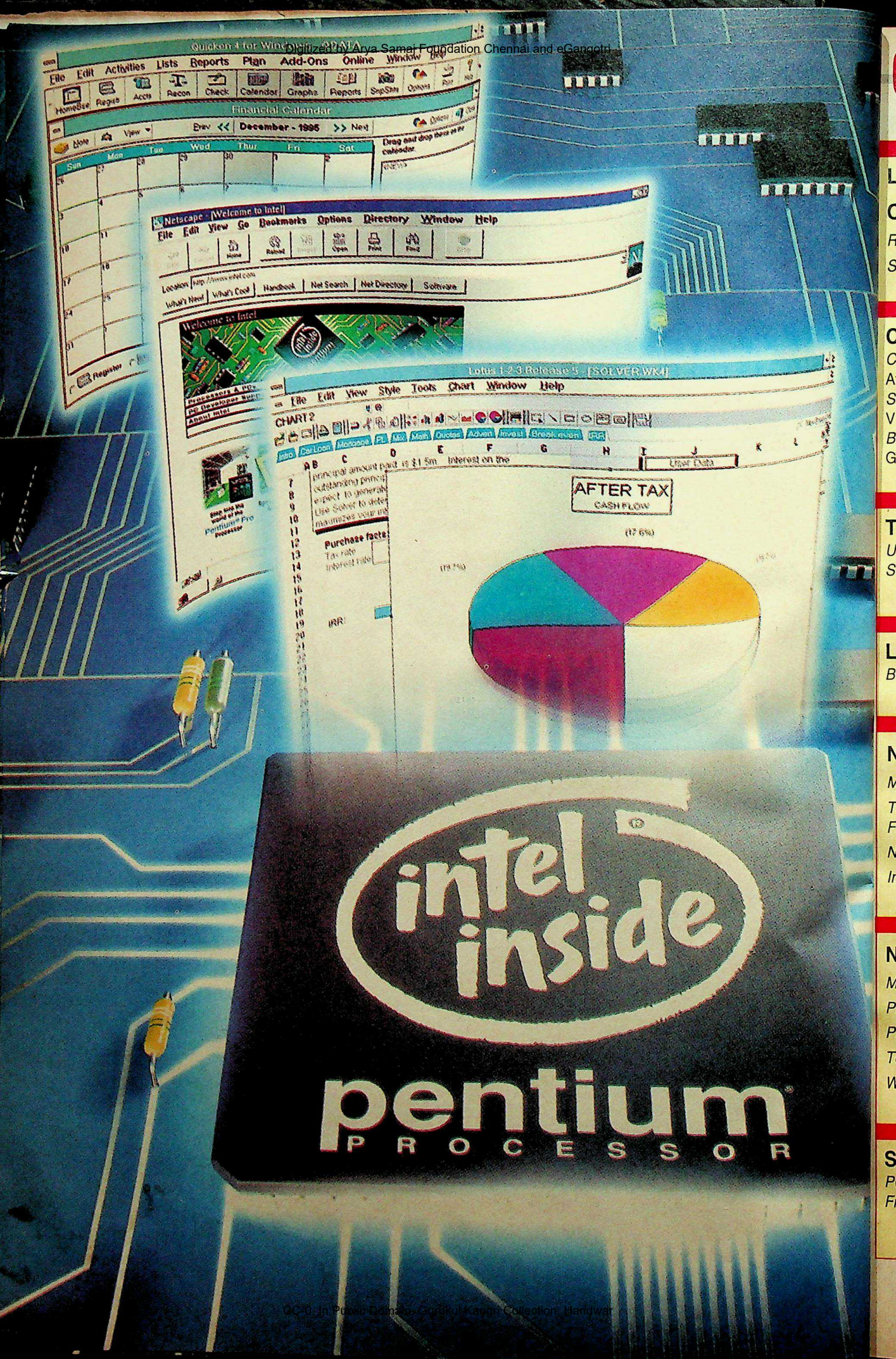
136 Howzzat!

134

NEWS
Marketwatch 142
Product Update 147
Pricewatch 157
Worldwatch 177

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CONTENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

Leading Edge 9

ONLINE

Readers Forum 11
SWAP 66

COLUMNS

Comversations 17
Atul Chitnis
Sequel 25
Vijainder K Thakur
Bottomline 29
Gautama Ahuja

TECHNOLOGY

Using Vinca StandbyServer 113

LEISURE

Books 164

NETWATCH

Medicine Internet 49
Tasty Bits From The Technology Front 117
News 123
India Internet 170

NEWS

Marketwatch 131
Pricewatch 134
Product Update 147
Technology 153
Worldwatch 157

SOFTWARE

PCQ Labs Setup INI File Expert 33

COVER STORY

57 Building Your Own Pentium
Build yourself the latest in computers for just Rs 50,000

REVIEWS

72 cica Shareware For Windows
Popular Windows shareware

76 Simtel for MSDOS
DOS shareware from the Net

79 Wills World Cup CD-ROM
The Little Master on the World Cup

81 Typing Instructor
For the novice and the more advanced typist

83 Corel PerfectOffice 7.0 Beta 2
Strong products that share code and are Internet-enabled

84 Lotus SmartSuite 4.0 for Windows
Team computing to enhance productivity

94 Corel Photo-Paint 6.0
A versatile and powerful design app

97 HP Vectra 500
A Pentium PC for SOHO users

100 OmniBook 5000CTS
A powerful but expensive notebook

101 Logitech TrackMan Marble
An innovative pointing device

102 AMIDisk 1.1
For PCs with pre-1994 BIOSes

105 Acer Sertek Multimedia Upgrade Kit
A standard but high-priced SOHO multimedia kit

106 GoldStar GCD-R542B
A quad-speed drive with impressive performance

107 Video Highway TR 200
Watch TV and listen to FM radio on your computer

110 3COM 's FMS 100
Easily set up and good network performers at a reasonable price

112 Vinca StandbyServer
An inexpensive and reliable solution for server downtime problems

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The IBM PC Server 300 Series.

It's the difference between running a network and having a network run you.

For further details contact our Authorised Resellers for IBM PC Products: **SOUTH: Bangalore:** Cerebra Integrated Technologies Ltd: 080-3323054 • Frontier Business Systems Pvt Ltd: 080-2264999/305/2266588 • Sparrow Microelectronics Pvt Ltd: 080-551568/5535874 • Nexus Computers Ltd: 080-2263308 • Melstar Information Technologies Ltd: 080-5594437/5588101 • CMS Computers Ltd: 080-5586790 • Zenith Computers Ltd: 080-2217101 • Microtech Software & Consultants Pvt Ltd: 080-5547781 • ET&T Ltd: 080-5262860 **Cochin:** Zenith Computers Ltd: 0484-350540 • Nexus Computers: 0484-373960 • Accel Computers Ltd: 0484-367148 **Coimbatore:** Nexus Computers: 0422-212085 • Accel Computers Ltd: 0422-212387 • Zenith Computers Ltd: 0422-443755 • Sri Agencies Ltd: 0422-233246 **Hubli:** Zenith Computers Ltd: 0836-67313/65657 **Hyderabad:** Super Solutions (India) Pvt Ltd: 040-234937, 598005 • Melstar Information Technologies Ltd: 040-242814/240835 • Integrated Technologies Ltd: 040-848915 **Karur:** Zenith Computers Ltd: 04324-22520/22501 **Kozhikode:** Nexus Computers: 0495-366936 • Zenith Computers Ltd: 0495-60283 • Accel Computers Ltd: 04 **Madurai:** Zenith Computers Ltd: 0452-35728 • Nexus Computers: 0452-620725 **Madras:** Winchester Business Machines Pvt Ltd: 044-8272889/8252872/8240680 • Nexus Computers: 044-2352568/235 • Penta Four Software & Exports Ltd: 044-4836337/3067 • Accel Computers Ltd: 044-8276285/8258658 • Cerebra Integrated Technologies Ltd: 044-4933235 • Zenith Computers Ltd: 044-451323/458661 Information Technologies Ltd: 044-833360 • ET&T Ltd: 044-8255949 **Mangalore:** Zenith Computers Ltd: 0824-26416/26420 **Manipal:** Zenith Computers Ltd: 08252-20691 **Mysore:** Zenith Computers 28644 **Pondicherry:** Accel Computers Ltd: 0413-31941 • Nexus Computers: 0413-34853 **Secunderabad:** S V Information Systems Pvt Ltd: 040-869210 • Nexus Computers: 04 • Accel Computers Ltd: 040-819482 • Zenith Computers Ltd: 040-812494/813256/816969 **Tirrupur:** Hobsons Marketing Pvt Ltd: 0421-703109 **Trichy:** Accel Computers Ltd: 04 • Zenith Computers Ltd: 0431-44821 • Nexus Computers: 0431-461268 **Trivandrum:** Nexus Computers: 0471-460065 • CMS Computers Ltd: 0471-463702 • Zenith Computers Ltd: 0471-715 • Accel Computers Ltd: 0471-63177 **Vijayawada:** Zenith Computers Ltd: 0866-476157 **Vizag:** Innovative Information Technologies: 0891-552638 • Zenith Computers Ltd: 0891-535740 **WEST: Ahm** Viraat Datatech Pvt Ltd: 079-421635/413158 • Zenith Computers Ltd: 079-464810/442528 • CMS Computers Ltd: 079-447091 • Microtech: 079-469954/405201 **Aurangabad:** Zenith Computers Ltd: 024

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CONTENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

Leading Edge 9

ONLINE

Readers Forum 11

Help Screen 25

COLUMNS

Comversations 17
Atul Chitnis

TECHNOLOGY

Planning Your Power 51

NETWATCH

VSNL GIAS News 23

Medicine Internet 42

India Internet 47

News 131

Tasty Bits From The Technology Front 137

Yellow, Offline: India's Daily Press? 180

NEWS

Marketwatch 144

Pricewatch 149

Product Update 165

Worldwatch 171

SOFTWARE

PCQ Labs Setup Component 31

COVER STORY

95 UPS Shootout

103 Models Reviewed

105 Power Winners

110 Buyers' Guide

REVIEWS

60 Albit 500 C

62 APC Pro 280

64 APC Back UPS 400

65 Datex Accure FA 40 IB

69 LDS Powersave

70 Link LU 300

71 Max 625 SLK

73 Guardian Sleek 250VA

74 Guardian Sleek 500VA

76 Perfect Opti UPS 420 E

78 Nissan 625 M AVR

79 Synergy Smart Power 625

82 Tripp Lite BC 250

84 Tripp Lite Omnipro INT 450

86 Tripp Lite Omni 675

91 Patriot-250VA

92 AMI LT-600

108 Bull Power 600

115 HP DeskJet 200

117 Lotus SmartSuite 96

122 Plug-In For Windows 2.6

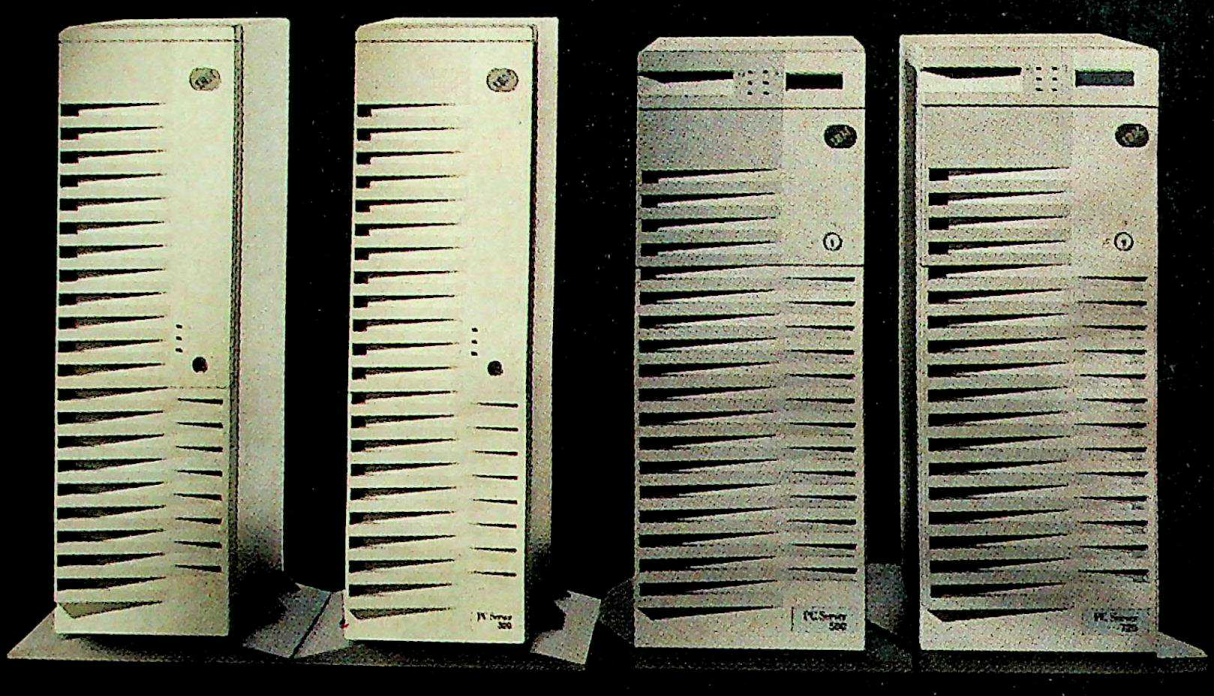
125 CEO

128 Executive Hindi for Word For Windows 6.0

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Unleashing the IBM Range of PC Servers.



It's the difference between running a network and a network running you.

For further details contact our Authorised Resellers for IBM PC Products: **Bangalore:** Cerebra Integrated Technologies Ltd: 080-3323054 • Frontier Business Systems Pvt Ltd: 0
• Sparrow Microelectronics Pvt Ltd: 080-551568/5535874 • Nexus Computers Ltd: 080-2263308 • Melstar Information Technologies Ltd: 080-5594437/5588101 • CMS Computers Ltd: 0
• Zenith Computers Ltd: 080-2264999/305/2266588 • Accell Computers Ltd: 080-2217101 • Microtech Software & Consultants Pvt Ltd: 080-5547781 • ET&T Ltd: 080-5262860 **Calcutt**
Brother (Comp) Division: 033-2480842/2430098 • Intelsys Inc: 033-2489478 • Nexgen Systems Pvt Ltd: 033-4795290 • Zenith Computers Ltd: 033-4753872/4748474 • Nexus Computers: 0
• CMS Computers Ltd: 033-2048949 • ET&T Ltd: 033-292649 **Madras:** Winchester Business Machines Pvt Ltd: 044-8272889/8252872/8240680 • Nexus Computers: 044-2352568/2
• Penta Four Software & Exports Ltd: 044-4836337/3067 • Accell Computers Ltd: 044-8276285/8258658 • Cerebra Integrated Technologies Ltd: 044-4933235 • Zenith Comp

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CONTENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

Leading Edge 11

ONLINE

Readers Forum 12
Help Screen 29
Help Screen Linux Q&A 36

COLUMNS

Comversations 19
Atul Chitnis
Sequel 23
VK Thakur
Bottomline 25
Gautama Ahuja

SOFTWARE

The Java Sampler 57

NETWATCH

India Internet 44
VSNL Watch June'96 46
Tasty Bits From The Technology Front 176

NEWS

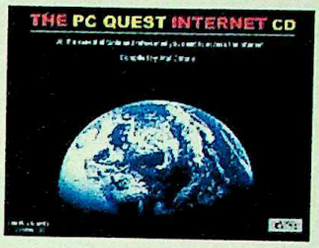
Marketwatch 158
Product Update 160
Worldwatch 169

LEISURE

Books 181

SPECIAL SECTION

50 The PCQ Internet CD-ROM



54 Snapshots Of The Web

PCQ PRINTER SHOOTOUT

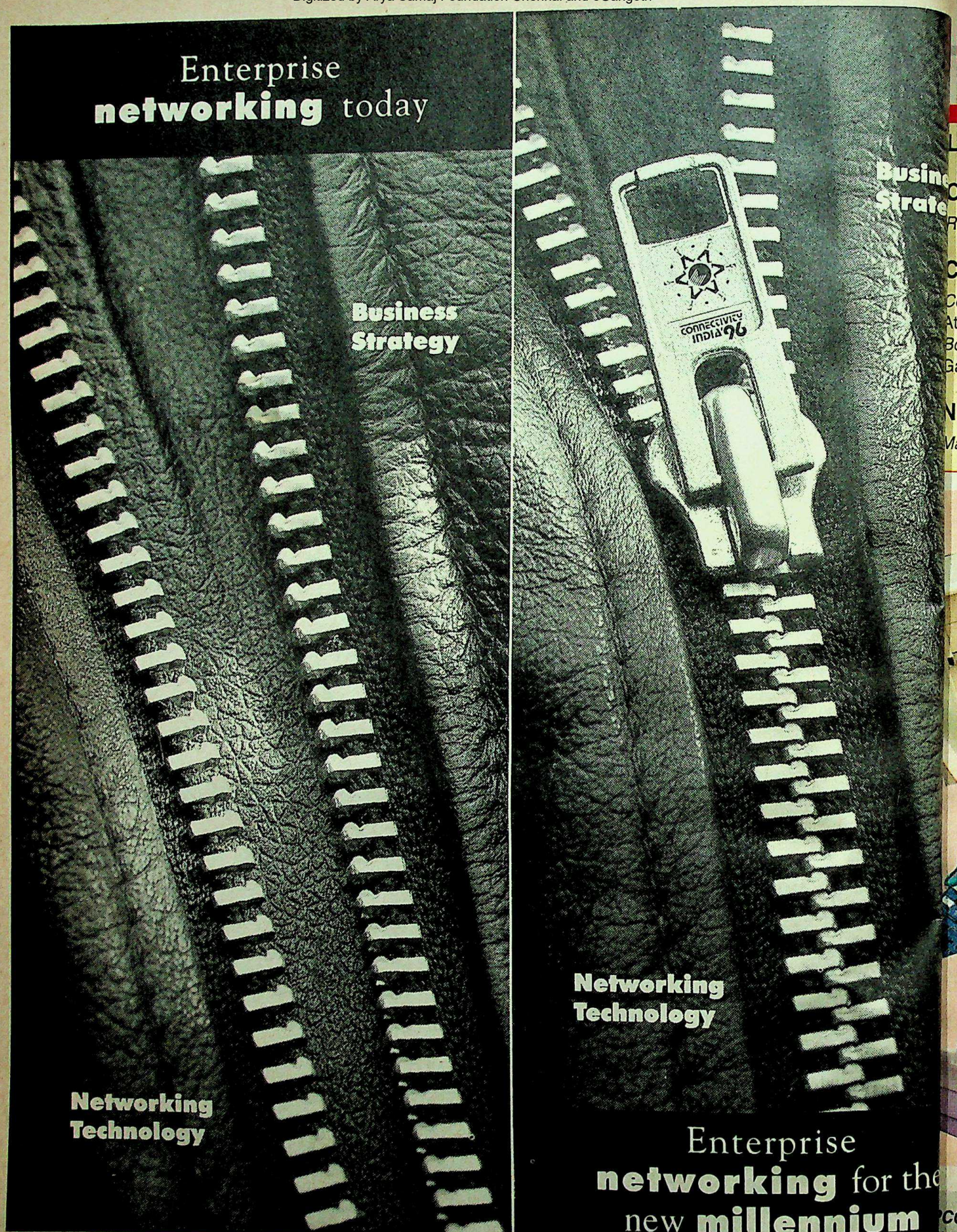
65 How We Tested
67 Lasers
73 Inkjets: High-end
85 Inkjets: Low-end
92 Dot-Matrix Printers
105 The Winners
110 Models Reviewed
114 Buyers' Guide

REVIEWS

118 The Taj .. A Lithic Poem
120 Yoga For All
122 ADAM: 9 Month Miracle
123 The Mayo Clinic: Total Heart, Family Health Book, Sports Health & Fitness, Family Pharmacist
136 Corel Medical: Epilepsy
137 AMA Family Medical Guide
140 Corel WEB.Designer
143 Value 95
147 Tracker For Windows
151 SmarTerm Enterprise Suite
154 Almanac

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



For more information on CI '96 get in touch with Ms Anna at Microland Limited, Microland House, Koramangala 7, Bangalore 560 095. Tel 553 4340 Fax e-mail ci96@microin.com Or contact any of our offices at Ahmedabad: Tel 6578464 Fax 657 9048, Bangalore: Tel 227 1104 Fax 221 9668, Bom Tel 821 4781 Fax 821 4783, Bombay(S): Tel 265 2738 Fax 262 1456, Calcutta: Tel 466 4439 Fax 466 0532, Delhi: Tel 611 5437 Fax 688 7215, H Tel 231108 Fax 211 879, Madras: Tel 826 5186 Fax 825 4722

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CONTENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

Leading Edge 9

ONLINE

Readers Forum 11

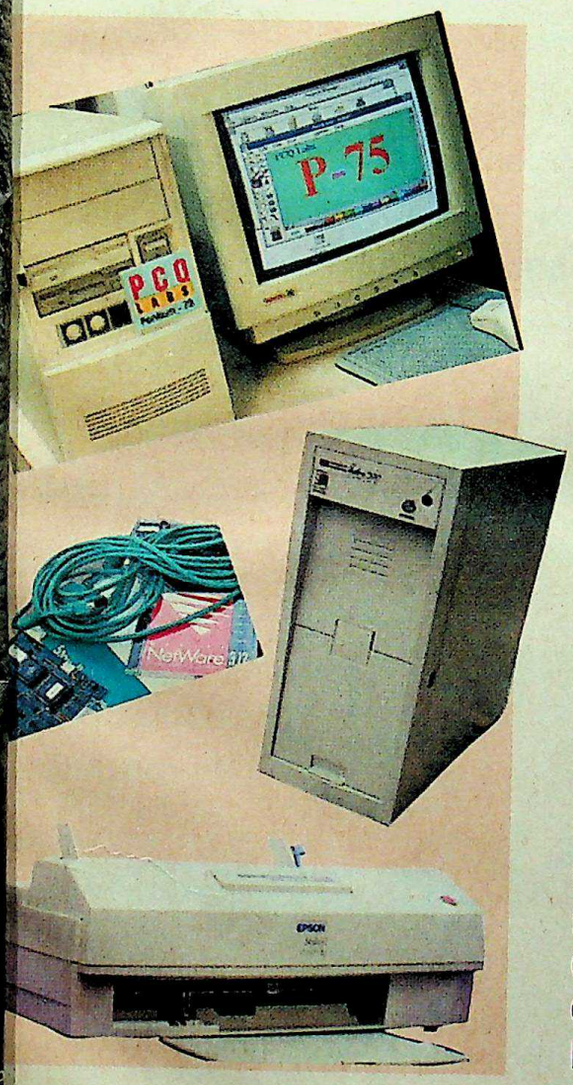
COLUMNS

Comversations 19
Atul Chitnis

Bottomline 24
Gautama Ahuja

NEWS

Marketwatch 250



PCQ Summer CD-ROM Note: *If you are unable to open the Response Form in the Summer '96 CD-ROM, copy BWCC.DLL from the SHAREWAR\WIN31\GWS directory into your WINDOWS\SYSTEM directory. Reload the application to continue.*

PRODUCTS ANNUAL 96

Hardware

Accessories 27
Add-on Cards 29
Computers 32
Datacom 41
Monitors 49
Multimedia 51
Networking 54
Others 57
Pointing Devices 59
Power Conditioning 61
Printers 68
Scanners 79
Storage Devices 81
Test Equipment 84

Software

Accounting 86
Anti-Virus 93
Business Applications 95
CAD/Scientific 117
Compilers 133
Database 135
Datacom 137
Development Tools 139
DTP/Graphics 149
Edutainment 151
Games 162
Groupware 164
Internet 164
Multimedia 166
Networking 171
Office Applications 173
Others 179
PIMs 185
System Software 187
Utilities 189
Vertical Applications 197
Word Processors 219

Product Index 230

Product Sources 238

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE MGA MILLENNIUM

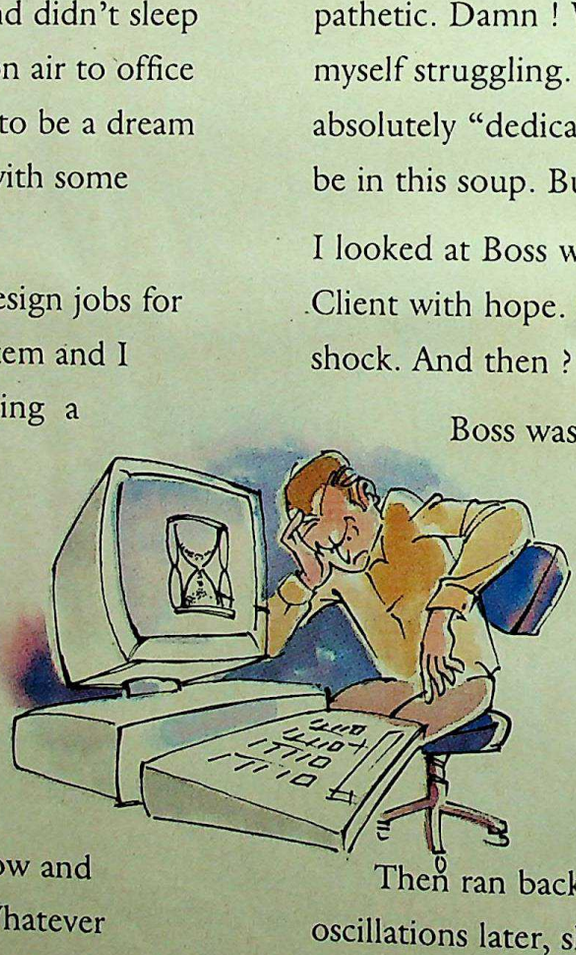
(Or how not to kiss your dream date goodb

I hate this MGA Millennium thing. Had it happened to me earlier, I wouldn't be what I am today. Sad. Depressed. Broken hearted.

Lend me your shoulder and I'll tell all.

It was D-day. After two years of talking to her in my dreams, I had finally asked her out. When she said yes, I behaved like such things happened to me all the time. And didn't sleep a wink that night. And walked on air to office the next morning. It was going to be a dream date. But not yet. Had to deal with some realities first.

Like doing the animation and design jobs for Boss. Some time on his new system and I began to wonder whether spending a fortune on it had been a good idea. The low resolution gave me pathetically grainy images, the video was jerky as hell and retouching took obnoxiously long. Working on the 3D job bored me stiff - images moved painfully slow and colours seemed non-existent. Whatever happened to graphic adaptors, I wondered. Man, I looked at the watch, weren't the dials flying today ?



Soon Boss was there. And Client was the I had to begin the presentation.

Client looked at Boss expectantly. Boss lo at me expectantly. I looked at system resig And prayed.

I guess the guy up there wasn't listening. had expected, the presentation turned out pathetic. Damn ! With a Pentium too, I f myself struggling. If only I had something absolutely "dedicated" to graphics, I wou be in this soup. But hell, why me, why to

I looked at Boss with regret. Boss looked Client with hope. Client looked at screen shock. And then ? Then there was devasta

Boss was yelling.... Client was y and... she walked in. P The picture of disa was complete.

I ran to her and begg a few moments to wr my work. ("WRAP"? ran back to save my Then ran back to apologise to her. S oscillations later, she left.

I now have an MGA Millennium installe my system. I hate to admit it but this 3" piece of metal is a real something. I get

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

MANAGING EDITOR — SHYAM MALHOTRA
EDITOR — PRASANTO KUMAR ROY
ASSISTANT EDITOR — R GIRIDHAR
SUB-EDITOR — ASAWARI KETKAR
REVIEWS ASSISTANT — MOHAN SINGH BIST
CONTRIBUTING EDITORS — ATUL CHITNIS, GAUTAMA AHUJA, VIJAINDER K THAKUR

BUSINESS MANAGER — VENAYAK BHATNAGAR
CIRCULATION & COORDINATION MGR — ASHOK GUPTA
AD COORDINATOR — SHAJI GEORGE
CIRCULATION COORDINATOR — RAJINDER
ACCOUNTS MANAGER — MADAN M SINGH
SR COMMERCIAL EXECUTIVE — ANIL KUMAR BHATIA

DESIGN & PROD MGR — ARUN SHANKAR
JR DESIGNER — REMA MARAR
JR DESIGNER — PAL SINGH
ASST MANAGER DTP — T SRIRENGAN
SR DTP OPERATOR — DIGAMBER PRASAD
DTP OPERATOR — JOSE PM
DTP OPERATOR — ALOK KUMAR SHARMA
SR PRESS EXECUTIVE — VIJAY NAGRATH
PRESS EXECUTIVE — KS THOMAS

BANGALORE
GENERAL MANAGER (SOUTH) — E ABRAHAM MATHEW
REVIEWS COORDINATOR — BALAJI N
ASST MGR ADVERTISEMENTS — SRINIVAS AGNIHOTRI

BOMBAY
REGIONAL MGR (WEST) — HOSHIEDIAR GHASWALLA
ASST MGR ADVERTISEMENTS — SUDHIR VALVARA
MARKETING EXECUTIVE — RUPA L NATHANI

CALCUTTA
BUREAU MANAGER — PARTHA P BANERJEE
SR BUREAU COORDINATOR — SUJATHA KRISHNAMURTHI

DELHI
ASST REGIONAL MANAGER (NORTH) — T N PRABHU
REVIEWS COORDINATOR — MEGHNA RELAN
SR MARKETING EXECUTIVE — YOGESH WADHWA

HYDERABAD
SR MARKETING EXECUTIVE — KRISHNA RAO
MARKETING EXECUTIVE — S SUBHA

MADRAS
ASST BUREAU MANAGER — ANIL KUMAR R

HEAD OFFICE
D-74 PANCHSHEEL ENCLAVE, NEW DELHI 110017. ✆ 6433999, 6435999, 6413938 FAX: 11-6475765.

BUSINESS OFFICE
D-14 PANCHSHEEL ENCALVE, NEW DELHI 110017. ✆ 6433999, 6435999, 6413938. FAX: 11-6475765.

BUREAU OFFICES
401 4TH FLOOR, MBC, 134 INFANTRY ROAD, BANGALORE 560001. ✆ 5511511, 5568238. FAX: 80-5562971.
2 JAIN CHAMBERS, 577 S V ROAD, BANDRA, BOMBAY 400050. ✆ 6427910, 6450050, 6450051. FAX: 22-6403986.
SOURYA'S BUSINESS CENTER, GND FLOOR, 233/3 AJC BOSE ROAD, CALCUTTA 700020. ✆ 2471285.
506 MEGHDOOT, 94 NEHRU PLACE, NEW DELHI 110019. ✆ 6416315, 6411692. FAX: 11-6476664.
ROOM NO.12, 5TH FLOOR SRINATH COMMERCIAL COMPLEX, S D ROAD, SECUNDERABAD 500003. ✆ 848121. TLX: 0425-6105 ERA IN. FAX: 41-816960.
VII FLOOR GUNA BUILDINGS, 304/305, MOUNT ROAD, TEYNAMPET, MADRAS 600018. ✆ 459498. FAX: 44-8252828.

■ Published by Pradeep Gupta on behalf of Cyber Media (India) Ltd, 810 Meghdoot, 94 Nehru Place, New Delhi 110019. ✆ 6416315 TLX: 031-71344 INDQ. and printed by him at Sahara India Mass Communications, C-2, Sector 11, NOIDA 201301.

■ Annual subscription:
Inland: Rs 240 (1 Year) Rs 450 (2 Years) 630 (3 Years). (Add Rs 15 for outstation cheques).
Foreign: US$ 60 (airmail).
All payments favoring: CYBER MEDIA (INDIA) LTD.

■ Distributors in India: Mirchandani & Co, Bombay.
All rights reserved. No part of this publication may be reproduced by any means without prior written permission.
■ *PCQ is not responsible for unsolicited manuscripts.*

PCQ Online: 011-6221734 [Modem: 14,400 bps, N81]
Internet: pcq@pobox.com
Cover Design: PKR
Color Pre-Press by Laserpoint, New Delhi

LEADING EDGE

PRASANTO K ROY

Terabyte To The Home

With the August and December issues of 1995, *PCQ* released almost 90,000 free CD-ROMs into the user community. Both the issues were cleared off the stands in hours, and both months saw a spurt in CD-ROM drive sales.

We don't expect the reaction to be any different to any of our quarterly CD-ROMs in 1996. Nor are these isolated reactions to something novel and new. Across India, multimedia software sales have been jumping, with colorful CD-ROMs flooding bookshops, departmental stores, and everywhere else. The CD-ROM drive and multimedia are here to stay.

Multimedia has passed by corporate India. But not so the home. 1995 saw it transform from jargon to live, affordable edutainment on the shelves. Walk in, pay Rs 2,000 and pick up the spectacular Microsoft Oceans or a Corel Movie guide or some other remarkable piece of software that will keep most people in your home busy for days on end. And make all that computing power and hardware cost suddenly feel very worthwhile.

Just for a bit of statistics, the million-odd CD-ROM disks with Indian PC users today total about 500 terabytes of storage. So what's all this going to do to hardware trends in 1996?

Clearly, its going to push up the demand for CD-ROM drives. And multimedia hardware, and memory, and disk space.

The CD-ROM drive is now essential hardware. When you buy a PC, you need only to decide whether you want multimedia or not. If you *don't*, get a double-speed CD-ROM drive—under Rs 5,000—without a sound card. But if you want to use your PC in the home, you *do* want multimedia, so a quad-speed drive and sound card—Rs 16,000—are well worth investing in. Or any of the superbly-integrated home PCs and Macs now in the market.

But beyond that, all those CD-ROMs will also mean you'll need more storage, and more memory, this year. Luckily, both are cheap. RAM has touched Rs 1,000 per MB. Storage is now *really* cheap. A 1 GB IDE hard drive will hit Rs 10,000 by mid-1996. The entry-level disk is already 540 MB—don't touch anything smaller, unless you *really* get it free.

That's not all the storage you'll find on your 1996 PC. Especially if you're a SOHO or corporate user with a lot of storage transport needs—such as an ad or design professional. Then you'll need removeable secondary storage. That's going to be fast and affordable in 1996. The 3.5" 21 MB floptical didn't catch on; tape was slow, magneto-optical expensive. 1996 will see *affordable* storage products coming in. Probably the most exciting of these is Iomega's floppy-size 100 MB Zip drive. Then there's Syquest's counter, a cheaper, faster (but bulkier) removeable hard drive. And there's more.

So what does all this mean for you? By mid-1996, it will mean a branded Rs 75,000 home system that's a true multimedia PC or Mac: 486DX2/66-class or faster, quad CD-ROM drive and sound, 1 GB hard drive, 14" color, 14.4 kbps modem. And, for a bit more, one of the emerging systems for removeable secondary storage.

Clearly, exciting things are going to happen in the world of multimedia hardware and storage. Watch this space. Or better still, watch that space on your 540 MB hard disk, as it quickly runs out.

January marks our first foreign edition, PCQ Nepal. Like *PCQ* in 1987, it takes off in a country with a tiny but rapidly-growing PC base. And it has the same potential to accelerate the use of infotech there. Through reviews and features that address on-the-ground user issues and concerns. To the PC user community of Nepal, a warm welcome.

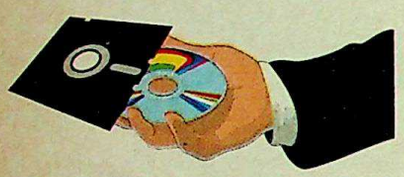
PKR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MAKE YOUR OWN CD-ROM CASES

✉ Most computer users have a collection of junk floppies with them (God knows why, but they are preserved). If the top of a 5.25" floppy shell is cut away with scissors and the actual magnetic media discarded, the result is a perfect storage cover for the CD-ROMs that are given along with magazines like PCQ.



The CD-ROM can now be easily be stored along with other floppies in their box.

K Ghosh
Hyderabad, AP

We tried this one out—a clever idea! This even gives you a padded case for mailing a CD-ROM.

—Ed

✉ It was nice to see the evaluation of J&G monitors in PCQ (September 1995).

However in the evaluation, you have overlooked the following details:

- Our company, J&G Electronics Pvt Ltd, is in collaboration with a Swiss company and hence the monitors are products of an Indo-Swiss venture.
- Our monitors are not only internationally approved, but also comply with all emissions and safety factors laid down by ERTL/DoE. Ours is probably the only company with STQC/ERTL approval.
- Your review wrongly states that J&G monitors carry a warranty of one month. We would like to inform the readers that the monitors have a year's warranty.

Girish Mohan
New Delhi

FEEDBACK

✉ I have been a regular reader of *PC Quest* for the past three years. One major problem with your magazine is the circulation—PCQ reaches subscribers three days to a week after it hits the stands. That's why I've put off subscribing for quite some time.

The content and quality of the magazine however is excellent. The article on VRML in the November 1995 issue was interesting.

In fact I would like to read more on datacom technologies like fast Ethernet standards, ATM, Frame Relay and ISDN, that are becoming increasingly popular. An article on ISDN services in India, the benefits, availability and disadvantages will also be useful.

PCQ has very few articles on UNIX. India is supposed to be a UNIX country with a large number of UNIX-literate programmers and users. Some articles on current developments on the UNIX front like POSIX standardization, UNIX on 64-bit processors, TCL/TL scripting language, perl and the Free Software Foundation's Linux OS and its free tools and utilities will be very welcome. Also not much has been reported about the sellout of USL to HP and SCO.

I have a suggestion for the free CDs given with PCQ. Instead of giving games, why don't you give some free software available on the Internet like NetScape's mosaic and Free Software Foundation's Linux. I think there is a freely available reusable C++ class library implementation from some site in US. (most probably NIH, USA, I don't exactly remember the address). This will be quite useful to students and programmers.

I believe that Linux is available as a complete distribution set (Slack ware distribution) with OS, compilers, tools, utilities etc on the Net. I feel it will be very useful to the programming community who have till now had no access to the Net. I look forward to you distributing these free software in the CDs with your magazine.

R Kannan
Madras, TN

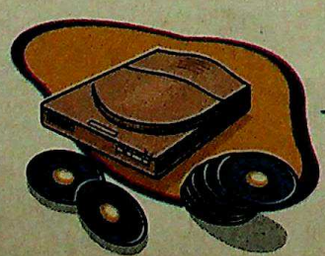
The subscription copies should reach within a day of their stands' appearance now in nine major cities, where PCQ is reaching subscribers by courier. Madras is among them.

Thanks for your CD-ROM-related suggestions. We'll probably take up every one of them in our Spring 96 CD-ROM with the March issue!

—Ed

✉ Thank you for the spectacular CD-ROM offered with the August issue of PCQ. Your move of distributing a free CD-ROM places the magazine in the global arena of IT journalism. I have been reading PCQ with great interest and have some suggestions, which I feel are extremely important to keep up with the times:

- Reader Query Service: The new format of the RQS Ca is welcome, but from personal experience I've found that most of the queries are not attended to by the vendors—speaking volumes about the marketing value in India.
- Instead, you may make some changes so that readers can directly contact the official vendor or distributor of the product. It does not matter if there's a provision for just three products.
- Your SWAP section code routines are repeated: It's nice and encouraging to see screen savers, file utilities etc, but it appears that the same logical code is used and presented, only in different languages. For example a program to display ti appeared in SWAP, both in Pascal and C, or maybe in assembly, in different issues.
- Leisure/humor often lo its sense of humor!
- Where are the Answ Guys—Atul Chitnis, Ash Gulhati and Bharat Sune Their says are really helpful Please continue with th columns.
- Cover games! Games h been every PC lover's obs sion. Almost everybody st with games. Some of the gorithms and coding te niques of popular ga could be published in S or elsewhere (WinG has peared in Nov 1995. Th you)
- Organize contests thro PCQ—This can develop skills and knowledge of



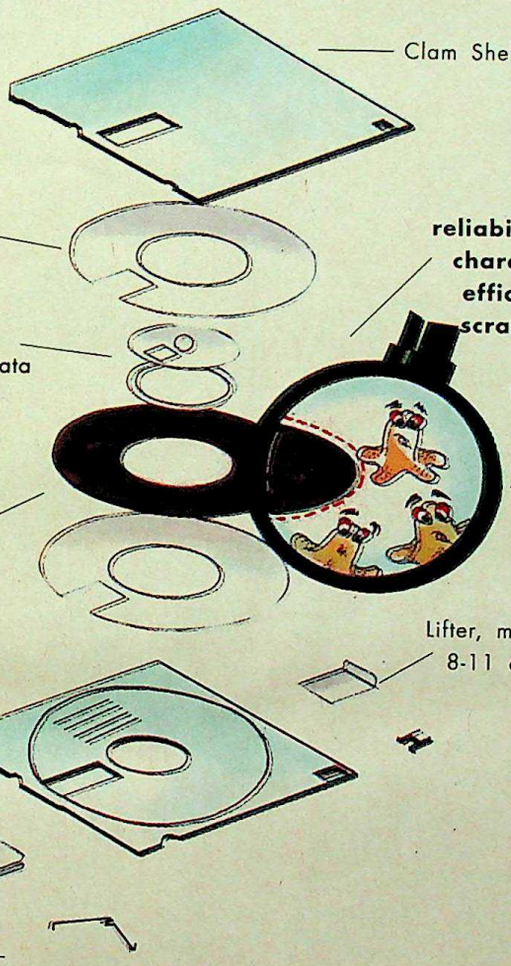
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Some Of The Many Reasons Why Sigma™ Is The Best Floppy Available In India...

FACTORS	ANSI**	ISO**	SIGMA™
Missing Pulse	>45%	>45%	>70-75% Clipping level Higher the value, higher the reliability
Extra Pulse	<20%	<20%	<16% Lesser the value, higher the reliability
Modulation Error	<10%	<10%	<6% Lesser the value, higher the reliability

***Source of information - respective standard's manual*



Clam Shell

Liner, specially designed non-woven fabric texture (bonding and length of lints) to effectively trap dust inside and prevent data corruption

Anti-scratch Centre Core to prevent metal debris to generate and fall on media, and so protect your data

Magnetic Media (Burnished Media) : Specialized media composition and crafting technology for improved electrical and recording characteristics. Supplied by Tejin, Japan, world leader in media. It's stable and durable media structure enables data recorded to be kept for a longer period.

Cross Ribs to enhance cleaning action

Shutter spring set at an angle to keep shutter force for optimum performance

Media is burnished (media-surface is made more smooth) to increase reliability, to enhance its electrical characteristics and reduce its co-efficient of friction and increase scratch-resistance. This increases the life-span of both the disk and the drive-head

Fungus resistant media

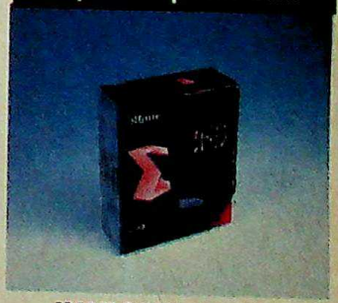
Lifter, maintained at a constant angle of 8-11 degrees to increase self cleaning action.

** Displayed above are the internal components of Sigma 3.5" MFD*

Presenting 100% error free performance. Presenting Sigma.™ The micro-floppy diskette that ensures a 100% error free performance for years together. With a clipping level of 70%, Sigma ensures the best grip over your data.

Sigma™ exceeds Quality Standards set by ANSI, ECMA & ISO

Available in an attractive adjustable plastic box.



AVAILABLE IN FIVE FASCINATING COLOURS

Switch over to Sigma.™ Buy an assurance.

For further details, please contact :

Global Info-Tech Ltd.

B. F. House, Old Post Office Lane, Kalbadevi Road, Bombay - 400 002
Phone : 2085951, 2085952, 2013875 Fax : (022) 2080470

Sigma™

THE POWER OF TECHNOLOGY

Dealership inquiries are solicited

NIKSUN/GITL/1/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ding programmers. The best code/routine can be published, and put up on PCQ Online too.

- Discounts for PCQ subscribers on other Cyber Media Publications.
- More on other IT organizations such as NASSCOM. This will create awareness amongst users and prevent piracy. Is there a membership for NASSCOM?

And thanks again for PCQ Winter '95 CD-ROM.

Abhijit Virkar
Pune, MH

Thanks for the range of suggestions. Most of these are very practical tips and we should be able to take them up this year.

*NASSCOM membership is to organizations. You can get the details from NASSCOM directly, at ***

—Ed

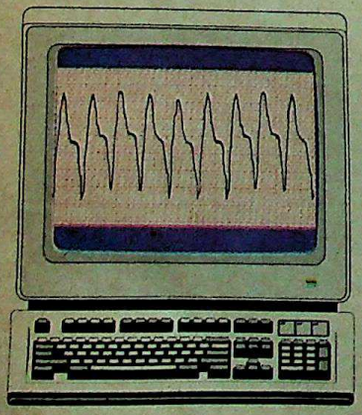
SOFTWARE MEDIGRAPHS

✉ This refers to Dr Rupinder Kapur's query in November, about upgrading her analog EEG machine to a digital one, with the ability to store the recordings on to floppies.

We provide PC-based solutions for real-time medical diagnostics and analysis, and also manufacture PC and micro-computer based embedded medical equipment indigenously.

In particular, we have solutions for ECG, EEG, Endoscopy and Imaging. We have installations of these in major hospitals all over the country. We also provide customized solutions. Readers can get in touch with us at #4, 9th Cross Street, Shastri Nagar, Madras 600020. Tel: 44-491393, Fax: 44-4910674.

Satya Shankar
Madras, TN



✉ I have already developed such a software for the storage of ECG signals, which can easily be modified for EEGs.

I can be contacted at Model Engineering College, BMCPO, Cochin 21, Ernakulam, Kerala.

BijuMon Janardhanan
Cochin, KL

✉ ION is a software development and Networking consultancy that has developed a product called the "ION-Patient Base" that may be of interest to Dr Rupinder Kapur. The product had been developed for Dr Rohit Jaiman (a Delhi-based psychiatrist).

We have also developed "ION-CPA", a Child Personal Accounting software for residential schools.

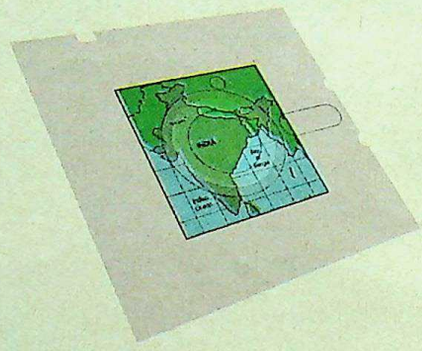
Interested readers can reach me on PCQ Online as IONSOFT.

Vivek Bibra
New Delhi

SOFTWARE WITHOUT BORDERS?

✉ We refer to the Letter to The Editor sent by Mr T Selvakumar regarding the missing copy of Grolier's Encyclopedia with his CD-ROM drive.

When we imported our first consignment of Aztech Voyager DS Multimedia Kits, the Customs authorities did not take objection to the Grolier's Encyclopedia CD-ROM. As CD-ROM software was then quite new in India, the Customs had no equipment to check the contents of the CDs. It was from this first batch of Voyager kits that we provided one piece to PC Quest for evaluation and review in the August issue.



Subsequently, as more kit manufacturers began shipping these product to India and Grolier's became popular, the Customs began checking each software. Grolier's Encyclopedia was found to contain a map of India which did not include the area annexed by China. The area in question was marked by a shaded sign reading "disputed area between India and China". Obviously the publisher of Grolier's did not want to alienate either the Indian or the Chinese market.

However, despite their attempts at diplomacy, Customs took exception to the "incomplete representation of India's borders" and detained the Grolier's CD-ROM from each and every kit. They have sent a Grolier's CD-ROM to Delhi for final adjudication. If the title is found to be harmless, all our Grolier's CD-ROMs will be released and can be returned to customers. If Grolier's is found to [question] India's national integrity, the CD-ROMs will be confiscated. Until now, do not know the fate of CD-ROMs. I can assure that all kits contain Grolier's CD-ROM, e those of our competito have been handled the sa way.

We apologize for the convenience you have fac but the matters were t beyond our control. We still awaiting the final w from Customs at Delhi will intimate you as s as we receive an ansv

K Nac
Bombay,

✉ Microsoft may h been a Goliath in computing world, they had to bow dow a David, the Indian C toms, just before launch of Windows 95. reason was that India is large a market to be o looked. And kudos to Customs for sitting f ahead of a Goliath.

Unfortunately, there other Goliaths in the c puting world. Almost all s ware developers in the W ern countries are doing same. I recently purchase multimedia kit and al came a few CDs, some which contained maps countries. Grolier's Mind ape Encyclopedia, Waya World Fact Book, World V Atlas, to name a few. only thing they have in c mon is an incorrect ma India in which Pakistan cupied Kashmir (POK) been shown as par Pakistan. For this, some has inserted a line that t maps are what the CIA plied to them. Well, to with the CIA too. We allow our sentiments t played with. Only World has shown POK as a sep boundary in the main

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AT 28,800 bps
THE SPORTSTER V.34 MODEM
COMES WITHOUT
ONE STANDARD FEATURE.
COMPETITION.

You'll find a lot of modem companies who'll give you some real fast talk. For a real fast modem, however, it's time you looked at the USRobotics Sportster V.34 - a fax/data modem so advanced, that it transmits at a speed of 28,800 bps with a throughput of 115,200 bps (which means money and time saved for you) and is easily compatible with other modems irrespective of their speeds.

Aptly, the Sportster comes to you from USRobotics - the world's #1 modem company as verified by a number of recent independent studies

In India, USRobotics is brought to you by Microsense - the pioneers in the modem business. Microsense has an extensive distribution and service network that spans the entire country.

Finally, USRobotics is capable of taking care of every little and big need of yours with a range of modems that covers External, PCMIA (for Notebooks), Pocket and LAN modems, from 2400 bps to 28,800 bps, with or without fax.

For more details about how the advanced features of the Sportster V.34 can give you a competitive edge, give a call to Microsense. Fast!

U.S.Robotics®

Distributed and Supported by

MICROSENSE

More modem for less money.

U.S.Robotics and the USRobotics logo are the registered trademarks of U.S.Robotics, Inc. USA

Accent/MCPL/103/95

MICROSENSE COMPUTERS PRIVATE LIMITED. **Bombay:** 808, Embassy Centre, Nariman Point, Bombay 400021. Tel: (022) 2872948/2825441/2831489/2836642 Fax: 2836643. **Delhi:** 1, Community enter, East of Kailash, New Delhi-110 065. Tel: (011)-6410134/6465855/6470619/6470620 Fax: 6465855 **Bangalore:** 209, 2nd Floor, Richmond Tower, Richmond Road, Bangalore-560025.Tel: (080) 18037/2273558/2273559 Fax: (080) 2210816 **Madras:** 5D, J.P. Tower, 7/2, Nungambakkam High Road, Madras-6000034. Tel: (044) 8276469/ 8256529 Fax: 8256529 **Secunderabad:** Emerald House, nd Floor, Sarojini Devi Road, Secunderabad-500003. Tel: (040) 845008, 846266, 844781 Fax: 814021 **Calcutta:** 2, Elgin Lane, Off Heysham Road, Calcutta-700020. Tel: (033) 748962 Fax:: 4759880.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

while in the general maps even they have shown it as part of Pakistan.

May I therefore request the Indian computing community, through PC Quest, to retaliate against this outrageous attack on our frontiers by the Big Bully. Why can't the Customs again impose some kind of restrictions on the import of such anti-India material, while users can boycott such objectionable material. It is only when the whole nation wakes up to this, that this Goliath, the CIA, will back off. If we do not resort to this, it can be taken for granted that the public is not averse to the idea of POK going to Pakistan, while, actually, the public *is*. So, let's do it.

Vinay Tevatia
Panchkula, HR

CRACKING Y2K

✉ I have a suggestion regarding the year 2000 problem. The MM (Month) field in the date structure DD/MM/YY normally takes values from 1 to 12. This field can be made to contain values from 13 to 24 thus denoting the years of the 21st century. The functions/procedures in the programs which calculate the number of days between any two dates can be modified to work with this format. And the cost of these modifications, hopefully, would be much less than other solutions.

Tirthankar Saha
New Delhi

There are various solutions possible, but all of them involve coding changes. The Year 2000 problem is not really a technical problem, but one of management and logistics—that of figuring out how to smoothly change over and then debug a million lines of interrelated code. All "millen-nium problem solutions" aim at tackling this issue, as a systems analysis exercise across the target company. See the special section in this issue for more details.

—Ed

ORGANIZING JUDGEMENTS

✉ As an advocate, I need software that can store court judgements reported in various law journals received by me. The judgements should be first classified by acts, which open into different sections. Each section will have a synopsis and under a synopsis the judgement should be stored. The retrieval should be in the same fashion—you open an Act, then open the Section, click on the appropriate synopsis and retrieve the judgements. There will be a massive amount of data so the storage requirement will be equally large.

Manpreet Singh Sood
Jalandhar, PB

You probably won't get off-the-shelf packages for this, but a custom one can be developed without too much trouble. Essentially, you need a package that lets you structure documents hierarchically. The workgroup product, Lotus Notes, is a natural at this. Another possibility is developing the system in a Windows database like Paradox, or a rapid-app tool like Delphi. In either case, a software developer can help you out very easily.

—Ed

CORRIGENDUM

✉ The list of **BBSes In India** published in the December 1995 issue of PCQ was compiled by Alok Sinha.

WRITING FOR PC QUEST

- ❑ Articles offered must relate to products, applications or technology relevant to the personal computer user.
- ❑ They must be no longer than about 1,500 words, unless specified otherwise by the Editor in individual cases.
- ❑ PCQ does not publish program listings, except for small programs or modules illustrating a point within an article, or very short programs illustrating new or innovative techniques (in SWAP).
- ❑ Every article must be accompanied by a signed letter certifying that the article is original and is not offered for publication elsewhere.
- ❑ Manuscripts should be neatly typed or printed, on A-4 copier paper. Articles on floppy (3.5" or 5.25") in plain ASCII text or standard word processor formats will be preferred).
- ❑ Please ensure that the address is clearly printed both on the covering letter *and* on the manuscript. If a floppy is sent, the author's name and address on a label on the floppy as well as in a README.TXT file in the floppy.
- ❑ Letters to the Editor must be marked Readers' Forum and must carry the author's signature, name and address. Letters requesting information of general interest will be published, with a response if necessary. We regret that we are unable to reply individually to Letters to the Editor, or to Help Screen queries.

PRODUCT NEWS

To be considered for publication, a write-up for the Product News pages *must* include all of the following:

- ◆ Name, type and price.
- ◆ Applications and target.
- ◆ Full specifications, special features, advantages.
- ◆ Availability of final, ready package: when and where.
- ◆ The name and telephone number of the person who can be contacted for further details or a demonstration.
- ◆ A product brochure.
- ◆ The write-up must be accompanied by a good black and white photograph or colour transparency. A write-up without a photograph or screenshot may not be published.
- ◆ The product must be available for demonstration and review in any of the four metros or in Bangalore.

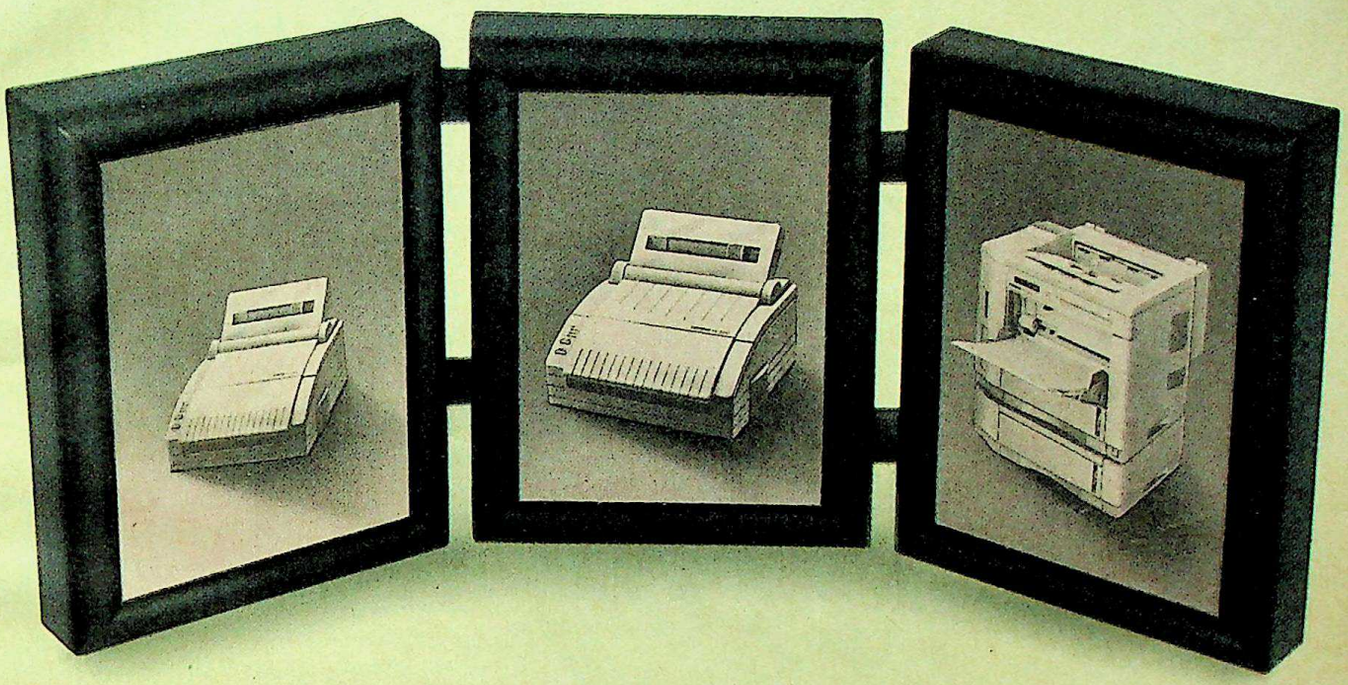
Standard press releases without these supports will not be considered for publication.

—Editor

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Unrivalled Siblings of Laser-Printing.



Baby Brother

is baby only by default. Entry-level prices do not mean entry-level technology. The Brother HL-631 from Godrej delivers 6 pages per minute, with 300 dpi. A straight paper-path ensures no jamming. This Brother gives you an amazingly low cost-per-page, and costs as much as a good dot-matrix printer.

L'il Brother

redefines the word 'Little'. 600 dpi is standard, as is 6 pages per minute for the Brother HL-660 from Godrej. The microfine toner delivers superb prints, and the straight paper-path ensures no paper jams. This printer is a bare essential for any office environment.

Big Brother

brooks no arguments. Who would pick a fight against 12 pages-per-minute, and 600 dpi (up to 1200 dpi with High Resolution Control). The heavy-duty HL-1260 from Godrej is Postscript compatible and contains 75 scalable fonts.

The Brothers from Godrej rank among America's premier desktop printing solutions. They've earned product-excellence awards from people who count – PC Magazine, PC World and Computer Life. Features include Compatibility & Connectivity – HP, IBM, Epson emulations with Postscript compatibility, PC and Macintosh connectivity. They're user-friendly. And they benefit from the Godrej national infrastructure for quick availability, the Godrej commitment to quality servicing and spares/consumables. Brother by Godrej. Do drop in at a dealer today. We're sure you'll meet a Brother you'll like.

brother

All trade marks registered by their owners.

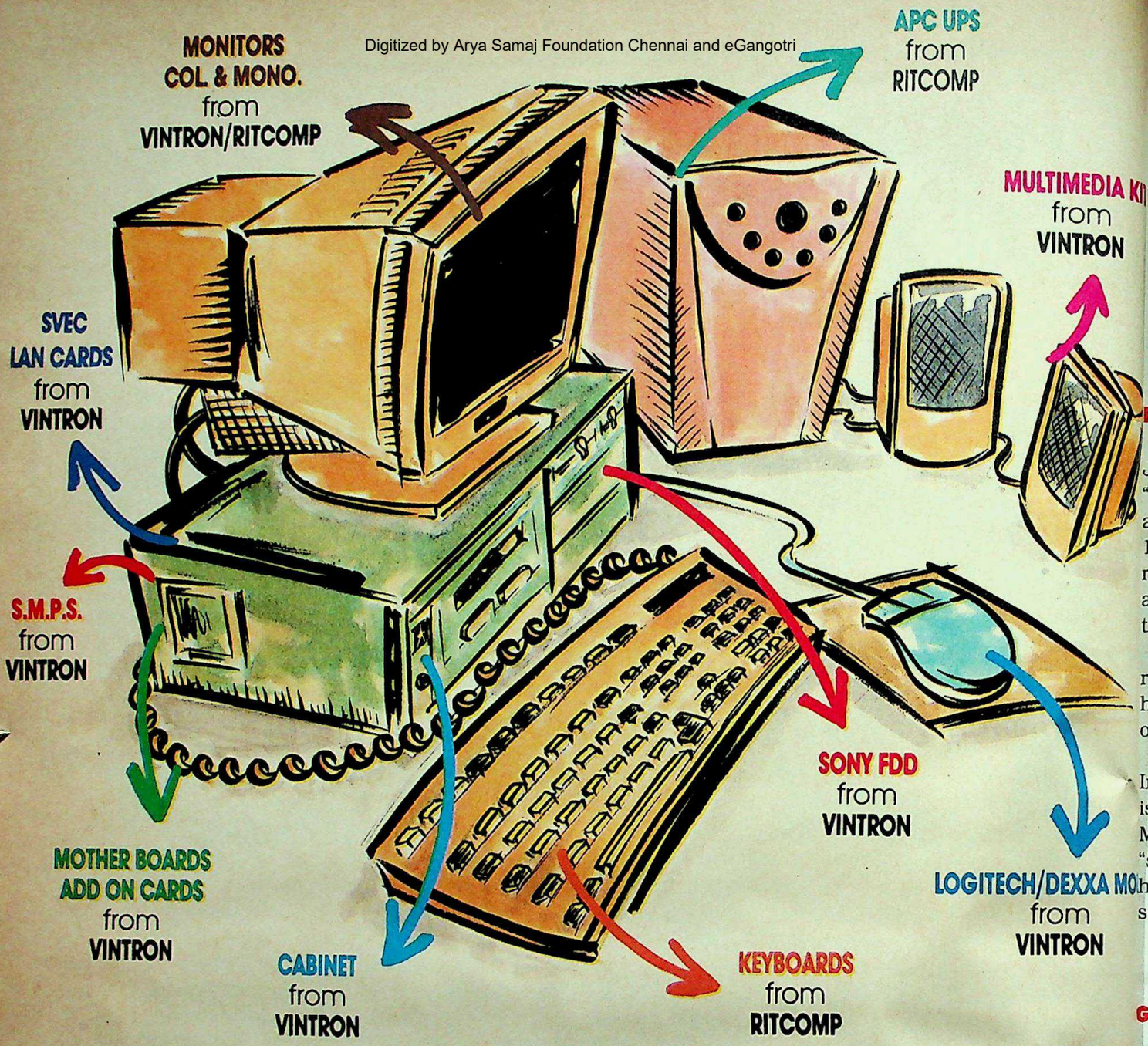
Godrej OFFICE AUTOMATION ®

Godrej Trading & Services Co. Ltd., Marketing Dept., Plant 19-A, Pirojshanagar, Vikhroli, Bombay-400 079. Fax: 022-5170415. **BRANCHES:** • **Bombay:** Tel: 2049663/2048371. Fax: 2852079 • **Ahmedabad:** Tel: 831545/6. Fax: 830336 • **Pune:** Tel: 624588/628971. Fax: 628969 • **Indore:** Tel: 539075/6, 539017. Fax: 533735 • **Jabalpur:** Tel: 3169092/314321/313499 • **Bhopal:** Tel: 551863/554076/7/8. Fax: 550029 • **Baroda:** Tel: 339369 • **Maharashtra U/C:** Tel: 5171718, Fax: 5172247 • **Delhi:** Tel: 6830690/6845002/7. Fax: 6841482 • **Lucknow:** Tel: 248963/241671. Fax: 242061 • **Chandigarh:** Tel: 705945/704849. Fax: 703047 • **Jaipur:** Tel: 514650/515182/514731 • **Calcutta:** Tel: 3596111/3596108. Fax: 378271 • **Bhubaneshwar:** Tel: 405082/408550 • **Guwahati:** Tel: 540787/542851 • **Bangalore:** Tel: 2216538/465. Fax: 2279312 • **Hyderabad:** Tel: 201876/7/201027. Fax: 203587 • **Visakhapatnam:** Tel: 546511/12/13. Fax: 546519 • **Madras:** Tel: 6257331/655666. Fax: 6257155 • **Trivandrum:** Tel: 460542/78104. Fax: 75935 • **Cochin:** Tel: 315680. Fax: 371838.

Mudra GTS:4220

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



THE WORLD OF VINTRON/RITCOMP....

Not just products but superior products, some in association with the world's best.

Trust Vintron - Ritcomp for all you need.

VINTRON RITCOMP

F-34, Okhla Industrial Area, Phase I, New Delhi-110020. Phones : 6814520, 6811980, 6817981, 6813680. Fax : 91-11-6810460. Telex : 031-75433 ELEC IN.

Branch Offices : Ahmedabad : D-33, Someshwara Flats, Satellite Road, Ph : 67415641; **Bangalore :** 207, 2nd Floor, Midford House No. 1, Midford Gardens, M.G. Road, Ph : 5582046, 5597186, Fax : 5599490; **Bombay :** 214, Arun Chambers, Tardeo, Ph : 4949905, 4939905, Fax : 4939905; **Madras :** No. 38, Madhvan Nair Road, Mahalingapuram, Ph/Fax : 8262658.

QUALITY RELIABILITY TRUST FOR YOU

DEALER ENQUIRIES SOLICITED

AVAILABLE AT : AGRA: 52125, 360562. AHEMDABAD : 407825, 6740191, 6743863, 6569176, 6568784, ALLAHABAD 607454. ALWAR : 71330. BANGALORE : 2254031, 2259233, 5582046, 5597186, 2222000, 2223774, 5586174, 576976. BAREILLY : 471444, 478707. BARODA : 331191, 331424, 331191. BELGAUM : 26170, 31630, 21584. BHARUCH : 34690. BHAVNAGAR : 20474, 26172. BHILWARA : 25101. BHOPAL : 564533, 566243, 555022,6361 BIKANER : 23541, 26600. BOMBAY : 2050682, 3829597, 3826672, 3098794, 3072918, 8213636, 8394470, 5135953, 2050682, 2062755, 2062756, 3072918, 3098794, 3083011, 3098021, 3829597, 3826672, 3072272, 3088194, 4073300. CALCUTTA : 260450, 260522, 2425716, 2425717, 2433972, 261451, 265500, CALICUT : 60171, 65009. CHANDIGARH : 702538, 705998, 700512. COCHIN : 366234, 369 741. DEHRADUN : 652948. DELHI : 6214751, 6426280, 5537753, 6418171, 6437853, 6467197, 6418187, 6965159, 6854857, 6228914, 2243277, 2222276, 5463152, 5133350, 6416212, 6434383, 6427627, 6472491, 6422860, 6416521, 6427627, 6472491, 7279191, 6111265, 604970, 6113019, 6422860, 6416521, 7112091, 7234330, 2924682, 2964804. DHANBAD : 307901. ERNAKULAM : 225478. ERODE : 213438, 210308. GUWAHATI : 540680, 542715. GUJARAT : 2457. HISAR : 30803, 79269. HUBLI : 367026. HY : 241980, 813144. INDORE : 478744, 430194, 535381-2, 430196. JABALPUR : 21522 PP. JAIPUR : 366862, 362627, 315412 EXTN. 308, 368539, 373872. JALANDHAR : 227522, 253190. JODHPUR : 34796, 38229. KANPUR : 319914, 313530. KOTA : 27634, 420165 (R). LUCKNOW : 220469, 218350. LUDHIANA : 456891, 455860. MADRAS : 835615, 4349202, 4349454. MANAGALORE : 26822, 31341. MEERUT : 563280, 647245. MEHSANA : 2034 MORADABAD : 315815, 28404. MUZAFFARNAGAR : 403274. MUZAFFARPUR : 241967, 249276. MYSORE : 510555, 512555. NAGPUR : 40401, 45614. RAJIBABAD : 20358, NASIK : 74737. NAVSARI : 52654. PATNA : 651699 PUNE : 451521, 451221, 652404, 668328, 669057, 328470. RAIPUR : 534205, 24805. RAJKOT : 84030. RANCHI : 311443, 502179, 500423. ROURKELA : 8267, 893127. SANGLI : 76348, 78855. SIKKIM : 22543, 22279. SURAT TRIVANDRUM : 61913, 462116. VALSAD : 2457. VARANASI : 312884, 312780, 361585. VIDYANAGAR : 28216. VIJAYAWADA : 477520, 475036. VISHAKAPATAM : 555920.

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Internet And You

COMversations returns with more tips and tricks for smooth sailing in cyberspace

Hi there, and welcome to COMversations '96!

It's been a year since the last COMversations episode appeared in this magazine and a lot has happened since we last met.

FOR THOSE WHO CAME IN LATE

COMversations first appeared in the January 1993 issue of *PC Quest*. Those were "the dark ages" when a modem was considered a white elephant in India. Until December 1994, this column attempted to introduce readers to new things in the field of datacom, and give them helpful tips and tricks to make them more productive online.

There was no COMversations in 1995. One reason was that there was very little new happening in Indian datacom, for the majority of the year.

Then things changed. In August 1995, India "got" the Internet (whether is really did is debatable—and we'll debate it in the future). Many of us spent huge amounts of time "surfing the Net" (a term I dislike intensely), hopping aimlessly from place to place in the search of Electronic Nirvana.

And hence, COMversations is back.

Let's get on with it.

GETTING AN INTERNET ACCOUNT

A year ago, getting onto the Internet from India was a task best left to magicians or millionaires. These days, the task is as trivial as hopping across to the nearest VSNL office and paying them Rs 6,000 for an account.

But hold everything—VSNL has so many types of accounts! Which one should you choose?

The account types fall into two basic categories: "Shell Accounts" and "TCP/IP Accounts". (I'll be discussing them in detail a little later).

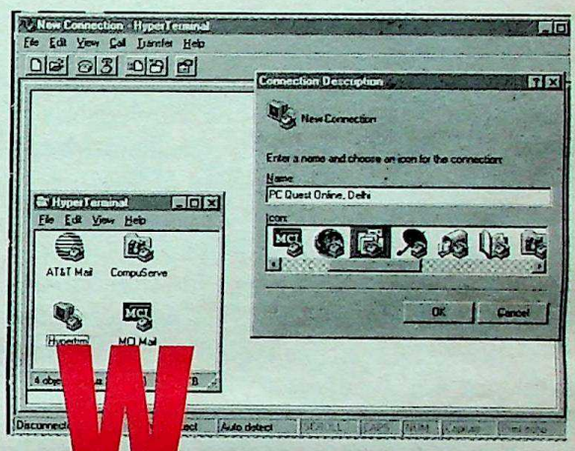
Shell Accounts cost Rs 5,000 (plus Rs 1,000 registration charges). The subscription amount covers 250 hours of access.

TCP/IP accounts cost Rs 15,000 (plus Rs 1,000 registration charges). Again, the subscription amount covers 250 hours of access.

Within each category, VSNL provides a number of classes (like in the Government, where one is classified as an employee belonging to Class 1, 2, 3 etc.). All the classes provide *exactly* the same content—the quantity and quality of services offered are the same. What changes is the price tag.

If you sign up as an individual, Shell and TCP/IP accounts cost you Rs 5,000 and Rs 15,000 respectively. If you sign up as a company, you pay Rs 25,000 for either, with no additional benefits.

As VSNL is violating Indian MRTP rules by charging differentially for the same quality and quantity of service, you have one sensible choice. Sign on as an individual, paying through a personal cheque or cash. If you *are* in fact representing a company, get the amount reimbursed from the company.



Windows 3.1 Terminal was unusable for datacom; the Win 95 HyperTerm is a significant improvement, even though OS/2 Warp remains the most stable PC environment for datacom

With that behind us, let's proceed to the selection of type of account.

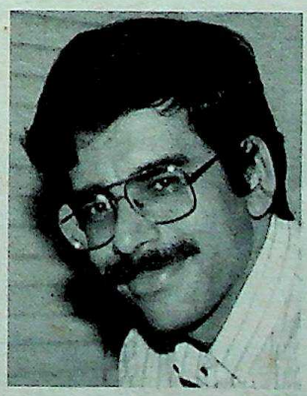
Shell or TCP/IP?

Shell accounts limit you to the text-only tools provided by VSNL—telnet, FTP, Lynx (character-based World Wide Web browsing) and mail.

TCP/IP accounts let you use any of the thousands of Internet tools that are available without any restrictions at all from VSNL, and they are usually graphically based.

So which do you go for?

If your requirement is just basic electronic mail, don't even consider the TCP/IP accounts unless you have prior experience with such

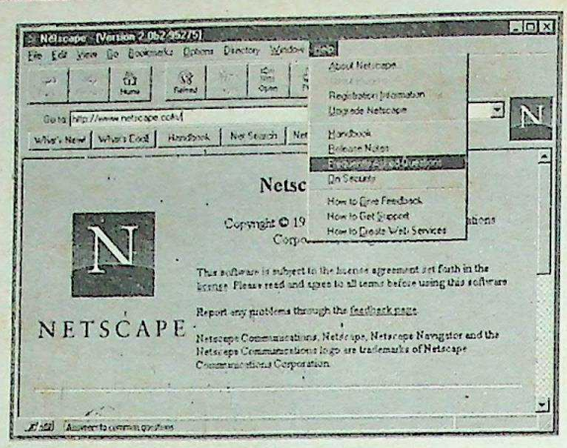


Atul Chitnis is a datacom and network consultant in Bangalore. You can reach him at atul@iisc.ernet.in or via his web pages at http://ourworld.compuserve.com/homepages/achitnis

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

things and can afford paying Rs 10,000 more for the same thing. The reason is that the e-mail facilities of VSNL are pretty good even at shell account levels, and definitely beat taking an account with a commercial e-mail vendor that charges you on a per-message basis. With a VSNL shell account, you do *not* pay for each individual message—you pay only for the 250 hours of access time that are covered by the Rs 5,000 subscription charge.



The shell account is a great and cheap introduction to using the Internet, and if you do not have any Internet experience at all, this is definitely something you should try first. Remember that you can switch at any time to a TCP/IP account by paying the additional Rs 10,000. (Several VSNL GIAS users have informed PCQ that VSNL has refused to do this upgrade in Delhi, but it has done such conversions in Bombay. VSNL director of development R K Gupta, however, clarified that it was indeed possible—*Ed.*)

If you are familiar with the Internet, and have the need to go beyond the functionality of a Shell account (such as if you want graphical Web browsing or to use TCP/IP-based facilities that are not available in the shell account), then consider the TCP/IP account.

With a TCP/IP account, you still have to dial into the VSNL computer, but instead of using facilities available on VSNL, you make use of programs that reside on your local hard disk, such as NetScape, FTP for Windows, IRC, etc.

A TCP/IP account is also easier to use for plain E-Mail because you can use programs such as *Eudora or Microsoft Exchange for Windows 95* to send and receive mail. However, you may not be able to justify the additional Rs 10,000 just for this feature.

There is one more reason for you to get a shell account rather than a TCP/IP account—if you are not located in a city where VSNL has a direct dial-up hub. In such a case, you would be using INET or GPSS to access the VSNL Internet Gateways, and inspite of what VSNL will try and convince you of—TCP/IP over INET or GPSS is virtually impossible.

The bottom-line is that you will probably be better off "getting your feet wet" on the Internet with the cheaper shell account option. Upgrade to TCP/IP only if you really need to.

THE MODEM GAME

When I first started this column in 1993, I did so with an article on how to buy a modem. I am not going to repeat all th again now, but here are a f pointers:

If you buy a cheap modem (l price, low quality) you're likely have a lousy time online with VS VSNL is not very comfortable w setting modems, and though it us great modems at their end (Motor Codex 3266), their units a inconsistently set up. Which mea that if you come along and conn with an average modem, you a going to wish you never heard of t Internet.

If you haven't already bought a mode consider buying one that your local BBS us BBS sysops usually have gone through ma generations of modems, and when they u one consistently, there is usually a very go reason for it. Call him or her and ask them they encourage such voice calls—else post message in an appropriate forum!).

If you do not have the luxury of a BBS your city, you are stuck with trial and error cannot recommend any specific brands—th best brand is the one that you have actual tried from your place. Don't settle on the fir one that works—try at least three before yo decide.

A cheap 14,400 bps modem will cost yo around Rs 8,000; a really great one will co you around Rs 15,000. If you can afford buy a V.34 28,800 bps modem (Rs 20,00 though really good ones will cost you arou Rs 30,000). VSNL does not yet offer 28,8 bps access, but indications are that they w and pretty soon, on their TCP/IP lines, least.

You *do not have* to invest in a 16550 bas serial card, but the presence of one w definitely make life simpler for you at hi speed.

And, as always, you'll find things eas with good external modems, though intern ones are usually much cheaper.

SOFTWARE

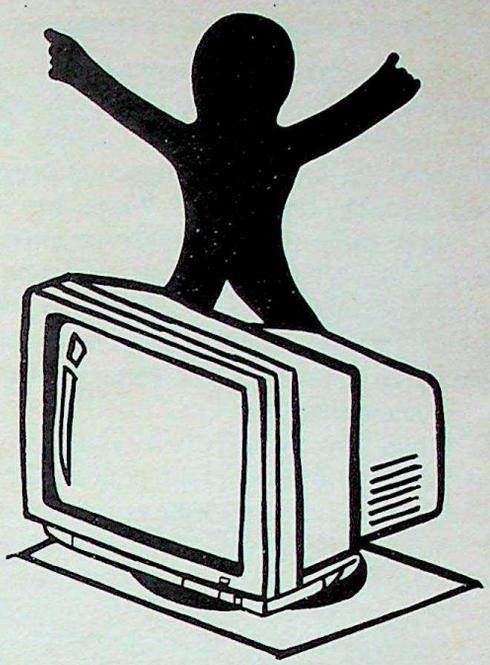
If you have a Shell account, you will ne a good terminal emulation communicati software. I strongly recommend the sharew program **Telix** (available on various BBSs and on the PCQ Winter 95 CD-ROM), but t HyperTerm program that ships with Windo 95 is also good. Stay away from Windows 3. Windows Terminal, unless you simply have use it once to download a better progra That program is lousy, as are programs l BitCom and older versions of QL2Fax.

NetScape is the de facto *standard for Web browsers, but alternatives include Win 95's own TCP/IP client, and Mosaic and its derivatives such as Corel Web Mosaic*

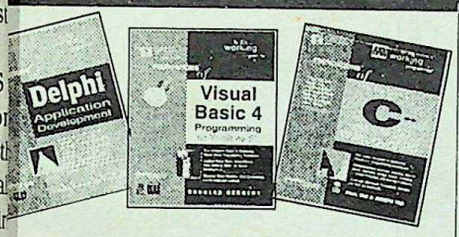
CC-0. In Public Domain. CAMUARY Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

uilding Blocks for
omputer Professionals
o Stay on the
utting-Edge!



FOUNDATIONS



DING BLOCKS FOR
GRAMMERS

value, high-margin Foundations series help the
r to master the art of power -programming. The
carries him through the Introductions and user-
ce to Applications and Advanced Techniques.

undations of Delphi
pplication Development
om Swan

s book provides working programmers a complete
de to Delphi that helps create programs as powerful
efficient as ones written in C and C++
Page • Price: Rs. 345 (with disk) 450 (with CD-ROM)

undations of Visual Basic 4
ogramming
Doug Hergert

s book is the ultimate source to discover the
damentals for all of your future programming in the
st release of Visual Basic. It uses task approach to
uss every facet of Visual Basic.
Pages • Price: Rs. 325 (with disk) 450 (with CD-ROM)

undations of Visual C++
ogramming for Windows 95
aul Yao

book addresses real world programming for all
future Visual C++ developments. Shows how to
erstand every facet of Visual C++ for Windows 95.
Pages • Price: Rs. 325 (with Disk)

BIBLES

COMPREHENSIVE TUTORIAL
REFERENCES

Bibles affords readers unparalleled coverage of every computing task from *start-up to shut-down* – and then takes the reader one step further with expert advice on mastering advanced features.

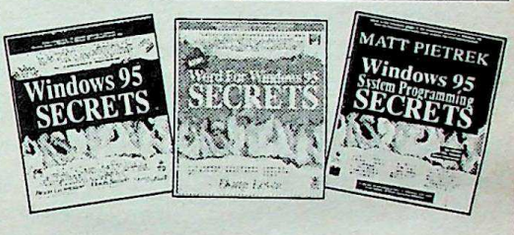
- **Windows 95 Uncut**
  By Alan Simpson
  This book reveals everything about Windows 95 from setup to shutdown. The book serves as comprehensive tutorial/reference for everyone who wants to use Windows 95.
  800 Pages • Price: Rs. 325, 375 (with 2 disks) 450 (with CD)

- **Excel for Windows 95 Bible**
  by John Walkenbach
  This book is your ultimate tutorial/reference to master Excel features and commands.
  1000 Pages • Price: Rs. 325, 395 (with disk) 450 (with CD)

- **Access for Windows 95 Bible**
  by Cary Prague and Micahel Irwin
  This book is your comprehensive guide to Access that covers everything from setup to shutdown and includes detailed description of Access Basic Programming.
  1150 Pages • Price: Rs. 425 (with Disk)

- **Word for Windows 95 Bible**
  by Brent Heslop and David Angell
  This hands on tutorial/reference provides everything you need to master Word for Windows 95.
  1000 Pages • Price: Rs. 325, 375 (with disk) 450 (with CD)

SECRETS



INVALUABLE TRICKS & TRICKS FOR
SOFTWARE DEVELOPERS

Secrets series take the reader on a back stage tour of each books topic and reveal their time-saving tricks and power user secrets. Readers learn from undocumented and little known features, tips and techniques.

- **Windows 95 Secrets**
  By Brian Livingston and Davis Straub
  This book provides developers, computer enthusiasts, MIS and IT Gurus with productivity enhancing tips and undocumented and little known facts facts which Microsoft doesn't — and won't — document.
  800 Pages • Price: Rs. 295 (only book), 450 (with CD-ROM)

- **Word for Windows 95 Secrets**
  by Doug Lowe
  This expert guide provides little known and undocumented features to turn you into an efficient and productive Words for Windows Guru.
  800 Pages • Price: Rs. 325, 375 (with disk), 450 (with CD)

- **Windows 95 Systems Programming Secrets**
  by Matt Pietrek
  This book digs into the internal details of Windows 95 and explains the relationship between Windows 95, Windows NT and WIN 32 to help you build stronger programs.
  800 Pages • Price: Rs. 395 (with disk)

Published in collaboration with **IDG Books, Inc. USA**

Comdex computer publishing
division of **PUSTAK MAHAL**

10-B, Netaji Subhash Marg, New Delhi-110002 Ph: 3268292-93 • Fax: 91-3280567
Branches: • **22/2 Mission Road, (Shama Rao's Compound) Bangalore-560027** Ph:2234025 Fax: 2240209
• **23-25 Zaoba Wadi, (Opp. VIP Showroom), Thakurdwar, Bombay-400002** • Ph: 2010941 Fax: 2053387
• **Khemka House, (Opp. Women's Hospital), Ashok Rajpath, Patna-800004** Ph: 653644

013/PCQ/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

In general, communications under Windows 3.x is an exercise in futility—stick to DOS-based programs for Shell access. Under Windows 95 most communication programs run decently. Under OS/2 Warp, they soar.

Make sure that whatever program you select has VT100 terminal emulation and supports Zmodem file transfers. A good script facility is also highly desirable, as is the ability to capture ASCII text appearing on your screen.

When it comes to TCP/IP, you are looking at a different class of programs. Here you basically leave the DOS world—what you require is Microsoft Windows and something called WinSock, a program layer that talks TCP/IP to the remote host.

The most common used under Windows 3.x is Trumpet Winsock, but we have a conflict here. Trumpet Winsock Version 2.1 or later works only for 30 days without registration. Version 2.0 works forever, but the required PPP support (that is needed to connect on TCP/IP mode to VSNL) is faulty and does not work.

Rather than struggle with archaic stuff like this, one option is to upgrade to Windows 95, which has built-in TCP/IP support and works like a charm. It is also extremely easy to set up, provided you also have the Windows 95 PLUS! Pack. Without the Plus pack, you'll find things going rough.

OS/2 Warp with the Bonus pack is also usable and very easy to set up.

OK, once you have established the TCP/IP connection, you need TCP/IP clients such as FTP, telnet, mail, etc. These are easily available in the shareware domain on many FTP sites. If you are using Windows 95, you'll find that most of them are already on your hard disk. The same applies to OS/2 Warp.

WINDING DOWN

OK, that's how much space I have this month. Next month, I'll take you by the hand and through the actual process of connecting to the Internet—including some useful tips you won't be able to live without.

Before I leave you, let me point you at my own Web pages on the World Wide Web. The main gateway to my pages is at http://ourworld.compuserve.com/homepages/achitnis, and from there, you will be able to reach other sites, including the *View from the Ground* pages that Kishore Bhargava and I maintain on the Web. Do drop by!

Cheerio!

+++ATH0

<click>

NO CARRIER ■

Continued from page 129

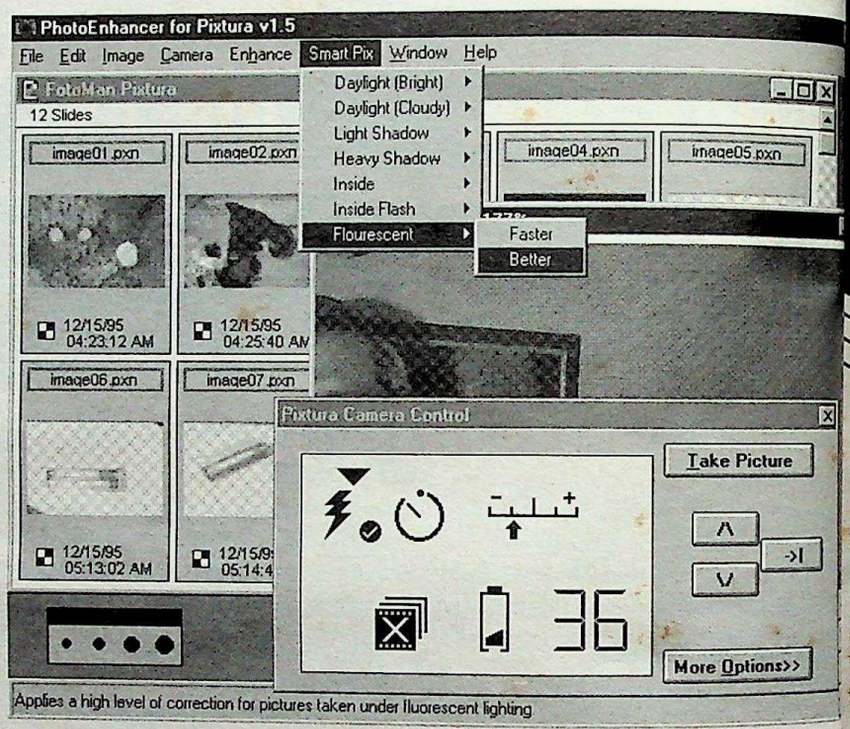
two hours to transfer 36 pictures, twice the time it takes for profe development and printing of a roll of film!

The Camera

Cutting through the digital technology, how does the Fotoman a camera?

Rather unremarkably. First, this is a "compact", not an SLR (sing reflex). And a fixed-focus unit, at that. I don't know of any profe photographer, even a news photographer, who would touch a compa a barge-pole. I certainly wouldn't trade in my SLR and its range of len this unit, for either general photography or for publication work.

More significant is the price. It's what one would call mind-boggling. I spending Rs 80,000 on a camera, would I buy this one? Nope, I'd buy a F3 SLR, motordrive, a couple of Nikkor lenses, and a hundred rolls of



The bundled Windows app gives you basic photo-retouching, some color-correctio filters, and all the camera controls.

The only SLR feature you'll find in this unit is on the digital con exposure compensation. You can push exposure up or down by half f-stop. Useful.

Overall, therefore, I think this is the wrong approach for Logitech. T not a camera company. They should have used this wonderful tech for a small databack-style clip-on unit for standard professional SL we could have used professional SLR camera mechanics and optics with some convenient digital electronics.

So who could use this camera? I'd recommend it to small newsl newspaper publishers or photographers, where the quality of photo isn't critical. Or to electronic publishers—this is terrific for online ROM images. At a pinch, regular newspaper photographers should tr too, if they can get used to working without single-lens reflex view an assignment you could shoot, then plug this into a notebook modem, and transmit the picture directly to your newspaper office

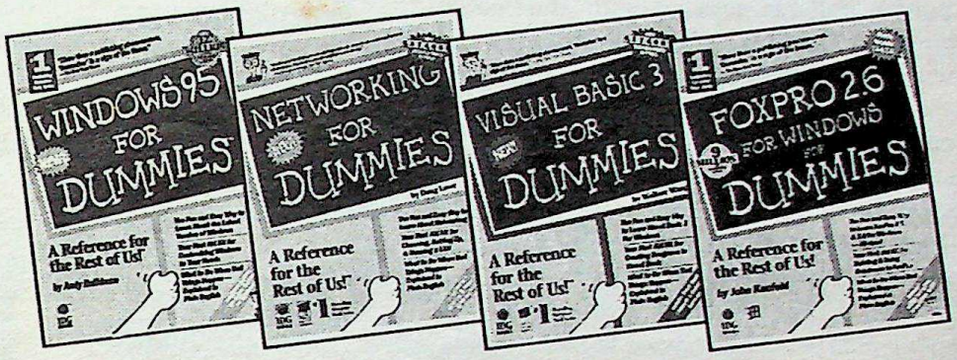
Overall, some neat technology and great convenience, but at the conventional professional optics values. This could have been a gr for many users—but at a tenth of this price.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

100 WEEKS 100 TITLES 250 THOUSAND COPIES

Today every other computer professional — whether a beginner at TATAS or a seasoned engineer with SIEMENS — is seeking DUMMIES' help in solving his computer problems. With an ever growing popularity it's definitely a new role for DUMMIES in taking INDIA to the 21st century.. A fact that testifies to its wide appeal, reader-friendly format and presentation.



India Swears by Dummies Today

Operating System	
• DOS 6.2/6.22 for Dummies	110.00
• Windows 3.1/3.11 for Dummies	135.00
• UNIX for Dummies	110.00
• OS/2 Warp for Dummies	175.00
• Advanced Unix for Dummies	150.00

Programming Series	
• Visual Basic 3 Programming for Dummies	135.00
• Borland C++ Programming for Dummies	150.00
• OOP's Using C++ for Dummies	135.00
• 'C' for Dummies	150.00
• Power Builder 4 Programming for Dummies	175.00
• Visual C++ 2 Programming for Dummies	150.00
• Access Programming for Dummies	150.00
• dBASE 5 for Windows Prog. for Dummies	135.00

Desktop Publishing/Graphics/CAD	
• CorelDraw for Dummies	110.00
• PageMaker 5 for Windows for Dummies	135.00
• PowerPoint 4 for Windows for Dummies	150.00
• AutoCAD for Dummies	135.00
• Desktop Publishing & Design for Dummies	135.00

Spreadsheets	
• 1-2-3 for Dummies	95.00
• Excel 5 for Dummies	135.00
• 1-2-3 for Windows 5 for Dummies	135.00
• Complete 1-2-3 for DOS (Rel. 4) for Dummies	135.00

Databases	
• FoxPro 2.6 for Windows for Dummies	135.00
• dBASE 5 for DOS for Dummies	135.00
• dBASE 5 for Windows for Dummies	135.00

Word Processing	
• WordPerfect 6 for Dummies	135.00
• Word 6 for Windows for Dummies	135.00
• AmiPro for Dummies	135.00
• WordPerfect 6 for Windows for Dummies	135.00

Windows 95 titles	
• Windows 95 for Dummies	150.00
• Windows 95 Programming for Dummies	150.00
• Windows 95 Uncut (with CD-ROM)	450.00
• Windows 95 Uncut (without CD-ROM)	295.00
• Windows 95 Handbook	195.00
• Windows 95 Secrets (with CD-ROM)	450.00
• Windows 95 Secrets (without CD-ROM)	295.00
• Excel for Windows 95 Bible	325.00
• Word for Windows 95 Bible	325.00
• Foundations of Visual C++ Prog. (with disk)	325.00
• Foundations of Delphi Prog. (with disk)	345.00
• Foundations of Visual Basic Prog. (with disk)	325.00
• Word for Windows 95 for Dummies	150.00
• Excel for Windows 95 for Dummies	150.00

Internet/Communications/Networking	
• Netware for Dummies (2nd Edn.)	135.00
• Networking for Dummies	110.00
• The Internet for Dummies (2nd Edn.)	150.00
• Modems for Dummies (2nd Edn.)	150.00
• TCP / IP for Dummies	175.00
• HTML for Dummies (with disk)	225.00
• Client/Server Computing for Dummies	150.00

General	
• Sex for Dummies	99.00
• Selling for Dummies	110.00
• Macs for Dummies	95.00
• PC's for Dummies	88.00
• Upgrading & Fixing PCs for Dummies (2nd Ed.)	135.00
• Illustrated Computer Dictionary for Dummies	68.00
• Multimedia & CD ROMs for Dummies (2nd Ed.)	135.00
• MS Office 4/4.2 for Windows for Dummies	135.00
• Memory Management for Dummies	60.00
• Time Management for Dummies	135.00
• Smart Suite 3 for Dummies	135.00
• cc:Mail for Windows for Dummies	60.00

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Ph: 3268292-93 • Fax: 91-3280567
Branches: • **22/2 Mission Road, Bangalore-27** Ph:2234025 Fax: 2240209
• **23-25 Zaoba Wadi, (Opp. VIP Showroom), Thakurdwar, Bombay-2** • Ph: 2010941 Fax: 2053387
• **Khemka House, Ashok Rajpath, Patna-4** Ph: 653644

013/PCQST/SK

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Technologies Vs Products

As Information Technology continues its inexorable advance, it provides better and better solutions for our needs. But along the way it extracts a price, sometimes a heavy one. This is because landmark events in IT are few and far between, and vendors often market half-baked technologies and products to hapless users to keep corporate engines revving with the money flowing in. Besides, what succeeds is not necessarily the best but often the best-marketed technology. IT is fuelled by commercial interests, and not by insatiable quests for knowledge as is scientific research. It would be foolish to compare Bill Gates with Stephen Hawking though the world may look upon both as visionaries.

Database Management Systems is one segment of IT where the pace is more sedate. DBMS users are like the military who look long and hard before accepting change. This reluctance is both its greatest strength and its greatest weakness. A strength because it precludes a dangerous and premature switch to strategies and weapons that have not been battle-tested. A weakness because it gives the enemy a chance to seize the initiative with the same weapons and concepts that you shunned. The challenge is in not going wrong because there are no runner-ups in war.

With database systems too the stakes are similar. Database applications often represent huge investments made over time. It makes sense not to adopt just any technology that comes along. Doing so can leave you stranded with a product that represents an intermediate solution.

It's not surprising then that some continue with COBOL applications developed over a decade ago as new technologies roll by. However, a wait and watch strategy does not go beyond a point, because the next step has to be taken. Deciding where to go is not easy as organizations are often too engrossed in daily work to fully develop a strategic vision. Their vision too is often clouded by vendor hype, which doesn't help much, since vendors are more interested in selling products than solutions. Even those of us who do keep up with technological developments can be surprised by their pace.

It has happened with Windows databases. A year ago they appeared to represent stable technology worth a long-term investment. Today, they appear as place holders for front-ends that have yet to deliver on their p But some, like Delphi, already have.

Delphi can do what Visual dBASE c much more. Where then is the need for dBASE or for any Windows database f matter? It's possible to code an appl using Delphi with the same effort a required when using dBASE, Parad Access. The Delphi application will run and is less demanding on hardware margin of 30-40 percent. For examp application in Access runs slower on than Delphi on 8MB. With 10 worksta the Access application costs at least Rs 5 more, and still works slower.

When choosing a Windows database, users must look at good technologies, not just good products

One way to avoid technological quicksands would be to shed a products orientation in fa of a technology orientation

Vijainder K Thakur is a contributing editor of PC Quest and a Delhi-based database and information consultant. He also runs Leading Edge Colutions, an IT consultancy. You can reach him at kuku.thak@axcess.net.in or as THAK on PCQ Online

Despite this, Microsoft and Borland con to push their desktop DBMSes. As I've sai impetus is commercial. One way to avoid technological quicksand is to favor techn orientation over products. Look for technology, not good products. Client-s technology is stable and makes sense. Work servers extend this architecture to desktop therefore, represent stable technology. front ends, a component-based enviro represents technology that is both logica stable. Once you agree on that, it doe matter from which vendor your workgroup or front end tool comes from. The combination will deliver and protect investments.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ACCORD

COMPREHENSIVE ACCOUNTING SOFTWARE

General Ledger, Sales & Purchase, Inventory, Manufacturing & MIS

Simply Better !

- Completely On-line & Integrated up to Balance Sheet
- Comprehensive Document Printing - Voucher, Receipts, Payment Advices, Bills, Challans & Orders
- Full featured Order Processing with fully / partially outstanding Order Register for Purchase / Production Planning
- Opening Documents - Sales & Purchase Bills (with Money and / or ST Form Due), Receipts, Payments, Debit Notes & Credit Notes
- Bill by Bill Adjustment among all types of Documents
- Special MIS Reports for Transaction & Party / Product Analysis, ABC Analysis, Cash Flow, Funds Flow, Interest Calculations, Expenses Audit
- Sales Tax Register with user selected Columns & ST Form Analysis
- Easy-to-use Checklists for all Documents
- Query Reports with ZOOM down to Document level
- User defined printing formats for Sales Bills (Excise Billing) & Account Confirmation
- Formula based BOM and Production Log entry with Rejection & Production Loss computation to give powerful Contractor-wise Analysis & Production Centre Analysis
- Intelligent Transaction Tracking & Renumbering by Voucher Series
- Compressed Backup with verified write & diskette signature
- Quick & Easy to install & operate
- Low Conventional Memory requirements
- True Multi-User (LAN) Version available on DOS 3.11 & above
- Multiple Concurrent Financial Periods with inter-period utilities
- Comprehensive User Reference Manual

EDP Corporation

216/2H, AJC Bose Road, Calcutta 700 017
Phones : (033) 247-7147, 40-8776 Fax : (033) 40-8776

DEALERS Ahmedabad, Bombay, Calcutta, Cochin, Goa, Guwahati
New Delhi, Patna, Raipur, Ranchi, Siliguri, Surat, Vizag and Kathmandu

DEALERS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AI—The Second Coming

AI is back...and there's a more realistic end-user perception of AI-based systems

Remember AI? It used to be a hot topic five years ago. Pundits spewed out visions of an AI-based dream future, lots of start-ups appeared and Prolog was the language to learn. The craze died down when developers realized exactly how tough it was to mimic intelligence. The only consensus that emerged at that time was that it was more profitable to spend time on Expert Systems as opposed to more generic software.

The wheel has turned full circle. AI is back, albeit in a more subdued form and focussed on problems that are mundane compared to the earlier ones. Two salient facts have contributed to the reappearance of AI. The first is the availability of desktop 100 MHz class machines at affordable prices. Such machines lower the break-even points of many commercial AI applications and hence increase their acceptability. The second is a more realistic end-user perception of what can be achieved using an AI-based system.

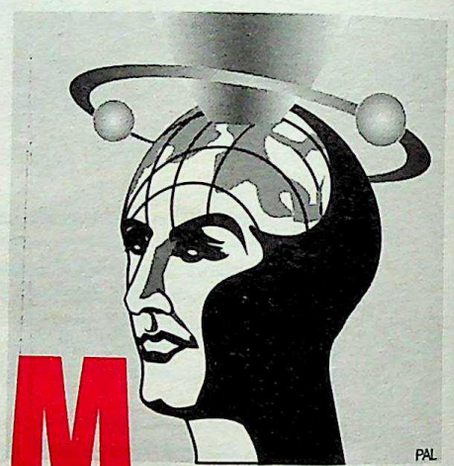
Many of the new set of AI-based applications that are emerging are in commercial and financial fields. Wall Street is now a major user of AI-based apps, with hundreds of firms queuing up to buy Sun or SGI workstations to run their latest AI-based projects.

Commercial AI applications can be broken into two broad streams. The first applies AI to the capital markets. Such systems are addressing every facet of capital market operations, be it trading, investment, portfolio management or foreign exchange markets. The second stream seeks to apply AI to the fields of credit and finance. Applications in this stream include credit rating, bankruptcy prediction, mortgage underwriting and real estate lending.

Let's start with the capital market stream. Most people now agree that there is very little chance of anybody developing an AI-based system that will allow you to make a killing in the stock market by identifying all stocks that are going to take off in the near future. Most current projects do no set themselves that ambitious a goal. They tend to focus on much more specific things.

An example of a capital market based system is the one used by *Fidelity Funds* in the US to short list stocks for mutual funds. Each fund managed by *Fidelity* typically invests in 200 to 400 stocks. *Fidelity* wanted a mechanism to select the best 200 stocks out of a melee of over 3,000 stocks. Since selection of stocks is based on huge amounts of company info like stock prices, dividend information, historical earnin and balance sheet data, it was impossible analysts to track so much data on a regu basis. Early attempts to apply AI to this probl focussed on developing rules to identify stoc meeting the investment criteria. This approa was unsuccessful because of the large numb of potential rules and the limited time availa for formulating rules.

The obvious approach was to use AI to s through the mounds of data. *Fidelity* develop a 100-variable neural network to sift throu the data looking for patterns. The neural netwo was trained using the large amounts of da available. The model developed was high earnings-driven and could respond to minu by-minute changes. *Fidelity* now uses the neu



Many of the new set of AI-based applications are in the commercial and financial fields. Wall Street is now a major user of AI-based apps

network to short list stocks worth considerin

Another area of extensive AI use is prevention of credit card fraud. Neural networ are trained to spot transactions likely to fraudulent. For instance, the Fraud Detecti System (FDS) developed by Nestor Inc uses t P-RCE neural network to rate fraud risk.

Both these examples illustrate that AI-bas applications do not eliminate human intelligenc instead they help focus it on cases whe maximum benefit can be obtained.

The Bottomline—AI is moving from the la to the workplace, but at a pace that you probably have to wait 10 years to download apps as shareware.

Gautama Ahuja is a contributing editor of PC Quest. He also owns and manages AHC Infotek, a Delhi-based turnkey software development company. You can reach him at sga%dartnet@uunet.uu.net or via the COL forum of PCQ Online

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHY BUY RETAIL ?
WHEN YOU CAN BUY FOR LESS !

Unleash MULTIMEDIA

THE COMPLETE RANGE OF MULTIMEDIA PRODUCTS
From - Creative, Adda, Truevision, ...

SOUND
Multimedia Upgrade Kits
16-BIT & AWE-32 Sound Cards

VIDEO
Video Blaster SE-100 & RT-300
MPEG Playback Cards
VGA Aver-Pro Averkey
Video Commander
Targa 16/32+
VGA-TV Pal Output Cards

CD-ROMs
2x, 4x, 6x Speed CD-ROM Drives
IDE/SCSI Compatible Drives
CD Recorders
CD-ROM Titles

And Much More . . . .

FREE !

AVAIL OUR FABULOUS OFFER
OF A FREE **CREATIVE JOYSTICK**
WITH EVERY PURCHASE OF
CREATIVE MULTIMEDIA KIT
(OFFER VALID TILL STOCKS LAST)

VGA-TV PAL OUTPUT CARD
NOW ONLY FOR Rs. 3000/-

ADLINE SYSTEMS

944/3, Naiwala, Faiz Road
Karol Bagh, N. Delhi - 5
Phone : 5720911, 5725425
Fax : 5726350

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Replace Tally & EX With VISIPAK

Hats off to you ! You have been using Tally & EX courageously WITHOUT many of the following important features.

1. Coded / Codeless Facility Simultaneously.
2. User Definable Balance Sheet
3. Export Documentaion
4. Payroll facility
5. Production Planning & Bill of material
6. Word processor / Mailing List
7. On-Line TDS deduction System.
8. Finished Goods / Raw material Inventory
9. Unlimited Nodes for LAN version.
10. No nuisance of a Key Diskette.
11. C&F Agency Sales & Stock Management.
12. Extending & Customising it yourself.
13. Point-of-Sales Vr for Shops / Stores.
14. Super Speed data Entry in DOS / LAN.

THIS IS WORLD CLASS STUFF

ON-LINE FINANCIAL ACCOUNTING
EXPORT DOCUMENTATION & INVOICING
BUDGETING, RECEIVABLES, PAYABLES
PRODUCTION PLANNING & INVENTORY
BILL-OF-MATERIALS FOR PRODUCTION
SALES ORDER , SALES TAX & EXCISE
WORD PROCESSING / MAILING / LABELS
FULL ON-LINE TDS WITH FORM 16A
C&F AGENCY - SALES / STOCKS CONTRO
FULL PAYROLL SYSTEM INCLUDING BO

UNIQUE CODED/CODELESS SYSTEM WITH BOTH OPTIONS AVAILABLE SIMULTANEOU

Don't believe it ! Well - SONY INDIA, SAMSUNG INDIA, MESCO , VIDEOCON, MON INDUSTRIES , MARIE STOPES , NUCHEM LTD, COLLAGE GROUP, ESSAR CELLULAR, THA AGRO, SUNSTAR LUBRICANT, SGS THOMPSON, KUBER FINANCE Etc decided on VISIP

DEALERS WANTED

RADIX

RADIX SOFTWARES PVT. L

M-4, AASHIRWAD BUILDING,
D- 1, GREEN PARK, NEW DELHI-110016
PHONES: 663274; 686-8071 FAX: 91-11-6852299

AHMEDABAD:ARK-462996 **BARODA:**COMPS - 329374 **BOMBAY-**SYSTEMS-8081482 **CHANDIGARH:**PISYS-541624 **COCHIN:**MENON
HOSHIARPUR: DATATRAC - 21900 **MEERUT-** BITS & BYTES : 540874 **LUCKNOW -** VITI :217298 **MADRAS:** COMPUSOFT - 4990212

Tally & EX softwares belong to Peutronics Ltd & TCS Ltd respectively.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

(For office use)

PC QUEST PRODUCTS ANNUAL: JUNE 1996

The Definitive Guide To Personal Computing Products

The PC Quest Products Annual is a comprehensive directory of personal computing products that is preserved, and referred to, through the year. It's simple and free. So make sure your product doesn't get left out.
*Complete this form, **complete with specs and prices**, attach the product brochure, and mail it to our regional office by **31st March 1996**.*
Please use a separate form (or photocopies) for individual products.
Send entries for products that will be available thru December 1996, in their present form or as updates

1. Product Name/Model/Version: _____

2. Type: ❒ Hardware/Peripheral/Card ❒ Software ❒ Other:_____ (Please specify)

3. This product is: ❒ Imported ❒ Made/Developed in India

4. For this product you are: ❒ Manufacturer/Developer ❒ Reseller/Dealer/Distributor

SOFTWARE

A. **Category:**
❒ Word Processor ❒ Database ❒ Spreadsheet
❒ Business/Office Automation ❒ DTP/Graphics ❒ OS/System SW
❒ Engg/CAD/CAM/Scientific ❒ Communication ❒ Utilities
❒ Development Tools/Compilers ❒ Vertical Application/Industry specific
❒ Other:_____ (Please specify)

B. **Environment/OS:**
❒ DOS ❒ OS/2 ❒ MS Windows ❒ Win NT
❒ Netware ❒ Win 95 ❒ UNIX or variant ❒ Other:_____ (Please specify)

C. **Minimum hardware required:**
❒ PC/XT ❒ AT-286/386SX ❒ AT-386DX
❒ AT-486 ❒ Pentium ❒ Power PC/Mac
RAM:_____ Disk space (MB):_____ ❒ Mouse

D. **Price** (including excise and CST) exclusive of local sales tax and octroi: _____
(Entries without prices will not be accepted.) _____

E. **Brief Description** of the product: (Please enter carefully, in block letters, at 1 word per box. Do not exceed 25 words)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

▶ Turn Over

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE/PERIPHERALS/ACCESSORIES

A. Category:

- ❒ Desktop/Portable
- ❒ Workstation/Server
- ❒ Printer/Plotter
- ❒ Monitor
- ❒ Diskdrive
- ❒ Communication
- ❒ LAN Equipment
- ❒ Test & Measurement Equipment
- ❒ Add-On Card
- ❒ Power Eqpt/UPS/CVT
- ❒ Media
- ❒ Accessories/Furniture
- ❒ Other: _____ (Please specify)

B. End-user price (including excise and CST) exclusive of local sales tax and octroi: _____
(Indicate clearly the **configuration/model** for which the price is given. **Entries without prices will not be accepted).**

C. **Brief Description** of product (Please enter carefully, in block letters., at 1 word per box. Do not exceed 25 words):

Name:

Designation:

Organization:

Address:

City: Pin

Tel:

Fax:

E-mail:

(Enclose your visiting card, if available, with this form.)

I declare that the information in this form is complete and correct, and will be valid till June 1996. This product (or an upgrade) will be available from us upto December 1996.

(signature and seal)

Mark the envelope **PC Quest Products Annual 96** and mail to the PC Quest Bureau in your region:

506 Meghdoot, 94 Nehru Place, **New Delhi** 110019

2 Jain Chambers, 577 SV Road Bandra, **Bombay** 400050

401 4th Floor MBC, 134 Infantry Road, **Bangalore** 560001

VII Floor Guna Buildings, 304/305, Mount Road, Teynampet, **Madras** 600018

4 Motilal Nehru Nagar, 1st Floor, Begumpet Main Rd, **Hyderabad** 500016

Souryas Business Centre, 233/3 AJC Bose Road, **Calcutta** 700020

Note: While every possible effort will be made to include a valid entry, PC Quest reserves the right to include or exclude any product without assigning any reason whatsoever.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

What's up, Doc?

TEXTBRIDGE
XEROX

Research has shown that over 85% of filed documents, to all intents and purposes is lost, because the effort to find it far outweighs the value of the document.

Integra Micro Systems (P) Ltd., presents **TextBridge Professional Edition** from **Xerox Imaging Systems**, the latest document recognition software that converts virtually any document - even one in less than perfect condition - into usable electronic text. Easily, accurately and economically.

Xerox Imaging Systems
A Xerox Company

Advanced Recognition Technology from Xerox

TextBridge offers the highest quality and functionality to bring your documents back to life, thereby giving you the performance that eliminates the time, expense and error of re-keying documents.

Amongst TextBridge's unique features are :

Exclusive **DocuRT** technology that allows you to recreate cell tables, multi column pages with pictures and edit them

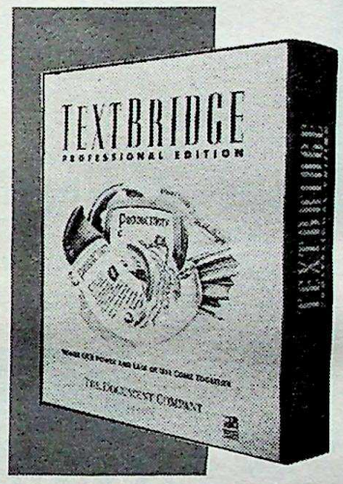
Edit - automatic conversion of paper documents to WP applications. With a Post Recognition Editing facility

Store - valuable documents into an efficient storage system. With lesser usage of disk space compared to scanned images

Search - that allows you to input text from diverse sources. With a search and retrieval option to locate anything by specifying a keyword

Distribute - put documents on-line, E-mail or fax them, appropriate for sharing the work process

Only **one keystroke to recognize** faxes, photocopies and dot matrix documents



OCR SOFTWARE
from
XEROX

Instant Access OCR that enables you to open TextBridge from within your Windows applications

On-line word and special symbol training with user dictionaries

One-button Operation - extraordinarily easy to use with a host of automatic functions like page orientation, detection of low resolution documents, text wrap and more

Improved user interaction - view, confirm and correct words while recognition is in progress

Support - for the most popular scanners and multiple TIFF files

Advanced features - that automatically processes all incoming faxes in the background.

Multiple language support, zoom images, on-line balloon help, true text flow and editability, drag and drop support, true omni font recognition and many more automatic functions.

TextBridge delivers the OCR capability for you to **cross over from inaccessible documents to invaluable electronic text** and is available as TextBridge Professional Edition for Windows and TextBridge OCR for the Mac and Windows.

Crest/97/INT-3

Integra Micro Systems (P) Ltd.
G5, Swiss Complex, 33, Race Course Road, Bangalore 560 001.
Tel : 91-80-2250073, 2257027 Fax : 91-80-2203928 E-mail : imail400.ncn@integra.sprintrpg.sprint.com
Bombay - Tel : 8344687, 8347207 Fax: 022-8741490 **New Delhi** - Tel : 6882259 Fax : 6874472

integra

Integra is the country-wide distributor for TextBridge.

All Brand Names, Product Names and Registered Trademarks are the property of their respective owners

Dealer inquiries solicited

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE BEST OF NAMES. IONLY AT BEST INTERNATIONAL

THERE'S MORE TO BEST

SONY

❑ Micro Floppy Disks ❑ Data Cartridges (DDS), 4 mm & 8 mm ❑ Optical Disks

HEWLETT® PACKARD

❑ Toner Cartridges ❑ HP II, IIP, III & IIIP and IV ❑ Black & Colour Ink Cartridges for deskjet printers ❑ Accessories & Spares

Genius

MOUSE, SCANNER, LAN & MULTIMEDIA PRODUCTS

CANON

❑ Canon Bj Bubble Jet Printers ❑ Ink Jet

3Com®

❑ Networking Products

❑ Computer Accessories : Stabilisers, Spike Suppressors, Data Switches, Cable etc. ❑ Computer Peripherals : Key Boards, Monitor ❑ Computer Printer Ribbons : Fullmark, Ink-Link ❑ Digital Cartridges ❑ Fax Rolls ❑ Magnetic Tapes ❑ Mailing Lables ❑ Mouse & Scanners ❑ Storage Boxes.

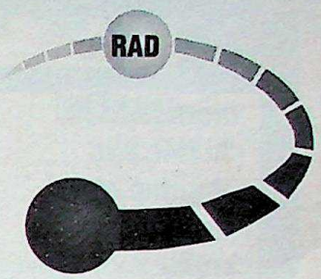
Mahalaxmi Building, 37, Maruti Lane, Fort, Bombay - 1.
Phones : 261 4795 • 262 4795 ❑ Fax : 91-22-261 6886.

BEST INTERNATIONAL

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

RAD With Delphi



A new column on rapid application development. We start off by developing Icon Grabber—a small utility for extracting icons from Windows files

Rapid Application Development (RAD), took a long time coming. Object orientation, custom controls and visual programming all alluded to RAD but didn't quite take us there. And then Borland did what with hind sight appears to be the obvious. It put all three together to come up with Delphi—the first real RAD environment.

That was nearly an year ago. The 32-bit version of Delphi is out with significant improvements. And while Borland has given us the RAD standard, it won't be long before other development environments catch on.

This column is targeted at developers, established or aspiring to try and lure them onto the RAD bandwagon. And I intend to do this the only way you can make a point with a developer—with working examples.

I've chosen Delphi because it's the only environment available that truly supports RAD. In this column, every month we'll develop a simple but useful application. Utilities like an archiver or an installation program or a toolbar/launcher, which any developer would be delighted to have in his/her tool kit. I might later have to rework the application a bit to suit your specific needs.

I would of course look forward to response from the readers in terms of ideas for utilities that we could develop, even a contribution—something you've developed and would like to share with others. The application that we code in these columns will be available for download from PCQ Online and will also be carried on our quarterly CD-ROM. We would like to carry the entire source code in these columns, so that readers without access to PCQ Online do not feel left out. However, this may not always be feasible. More than the source code, we'll be focussing on Delphi features that developers need to master.

PCQ Labs Icon Grabber Ver 1.0

While it is distinctly possible that you can RAD an application with Delphi in a couple of days, chances of coming up with a decent icon in the same amount of time are quite remote, particularly if you banked entirely only your own artistic skills using the Image Editor, Resources Workshop or whatever else you have. Your best bet under the circumstances would be to steal someone else's iconic master piece and smudge it here and there to make it look like an original piece of work! And where do you steal an icon from? An existing Windows application of course! All Windows apps have an icon and many have more than one icon. Two good candidates to steal from are PROGMAN.EXE and MORICONS.DLL both in the Windows directory. The former has 45 icons and the latter 105! (We found that out using the Icon Grabber!) There is still the problem of extricating those beauties from the mess of bytes in the executables. This is where the Icon Grabber comes in. It makes the act of stealing a delight! You can instantly view the icons in an executable or a DLL, catch the one that you like by the ears and quite literally drag it out! Using the Icon Grabber you can "create" an icon for your application in less than five minutes, quite in the spirit of RAD!

The code in the Icon Grabber illustrates how to

- Display status bar messages
- Use an INI file to carry over options from one session to another
- Use owner-drawn list boxes to display graphics
- Do simple drag-and-drop

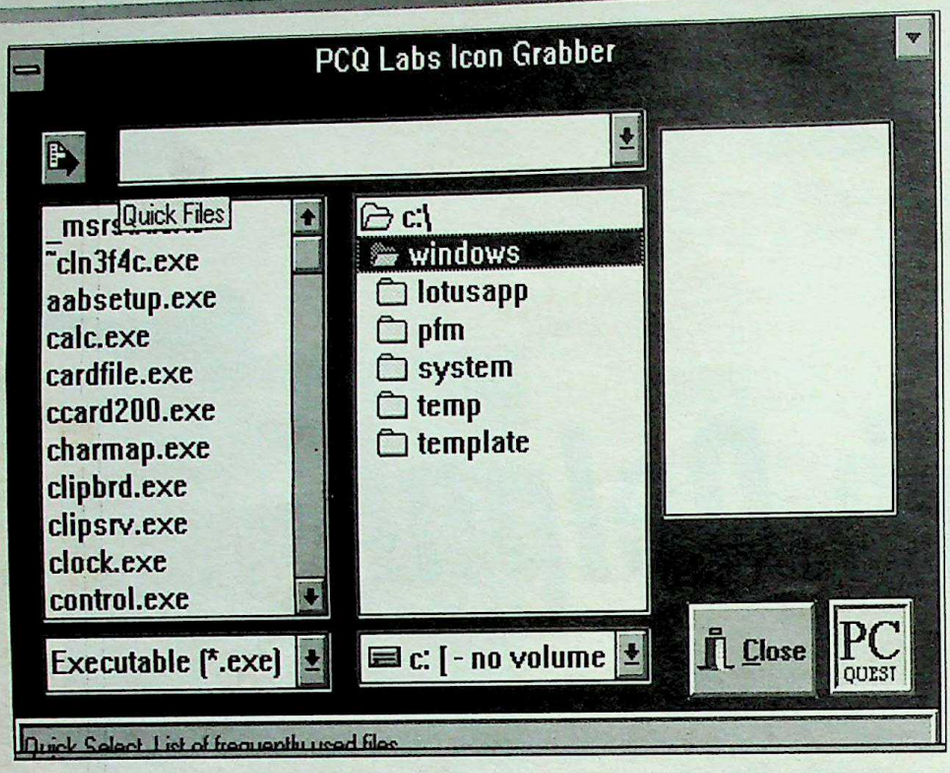
Navigating Directories

Take a look at the screenshot of the Icon Grabber on the next page.

The File and Directory List boxes and the Filter and Drive combo are the four components Delphi provides for navigating directories and selecting a file.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Here are the main properties of each of these controls:

```
File List Box (FileListBox1)
Hint = "Select a file to extract icons"
IntegralHeight = True
Mask = "*.exe"
ShowHint = True
Filter Combo Box
Hint = "File Filter|Choose form Executable,
Icon or DLL files"
FileList = FileListBox1
Filter = "Executable (*.exe)|*.exe|Icon
File (*.ico)|*.ico|DLL
(*.dll)|*.dll"
ShowHint = True
Directory List Box (DirectoryListBox1)
Hint = "Select directory"
FileList = FileListBox1
IntegralHeight = True
ShowHint = True
Drive Combo Box
DirList = DirectoryListBox1
```

All the four components are easy to use. (You can refer to the FILEDEMO project under DELPHI\DEMOS\FILECTRL in your Delphi installation if you need more info on these.)

The drive combo box, lets you select a drive using a drop down list. It has a DirList property which in this example is set to DirectoryListBox1. This connects the combo to the Directory List Box so that when you change the drive in the combo the display in the Directory List Box automatically updates to show the directory tree for the new drive. The Directory List Box in turn has a FileList property. In the Icon Grabber, this is set to FileListBox1. Therefore, the File List Box automatically displays the files in the currently selected directory.

The list of files displayed in the File List box is additionally dependent on the filter set in the Filter Combo Box. This is because the Filter Combo Box has a File List property too, which in this case has been set to FileListBox1. You can connect the four components by just setting their properties and allow the user to navigate the directory tree. No coding is required. Notice also the use of the Filter Property for the Filter Combo to specify file filters.

Creating A Status Bar

At the bottom of the form is a panel component that serves as a status bar. Here are its particulars:

```
Align = alBottom
Alignment = taLeftJustify
BevelInner = bvLowered
BevelWidth = 2
Color = clAqua
Font.Color = clNavy
Font.Name = 'MS Sans Serif'
```

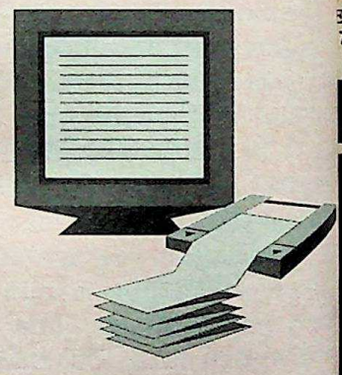
To use a panel component as a status bar follow these steps:

(a) Set its Align property to alBottom

(b) Set alignment to taLeftJustify.

Program Listing

```
unit Main;
interface
uses
 SysUtils, WinTypes, WinProcs,
Messages, Classes, Graphics,
Controls,
 Forms, Dialogs, ExtCtrls,
StdCtrls, FileCtrl,
 ShellAPI, Buttons, IniFiles;
const
 IniFile: String = 'ICONGRAB.I
 ProgName: String = 'IconGrab'
 MaxQuick: Integer = 8;
 CopyrightStr: String = 'PCQ L
Copyright 1995-96';
 type
 TForm1 = class(TForm)
  FileListBox1: TFileListBox;
  FilterComboBox1:
TFilterComboBox;
DirectoryListBox1:
TDirectoryListBox;
  DriveComboBox1: TDriveCombo
```



```
  IconListBox: TListBox;
  StatusBar: TPanel;
  BitBtn1: TBitBtn;
  Panel1: TPanel;
  Image1: TImage;
  QuickCombo: TComboBox;
  SpeedButton1: TSpeedButton;
 procedure
FileListBox1Click(Sender: TObje
procedure
IconListBoxDrawItem(Control:
TWinControl; Index: Integer;
 Rect: TRect; State:
TOwnerDrawState);
  procedure FormClose(Sender:
TObject; var Action: TCloseAct
  procedure
IconListBoxMouseDown(Sender:
TObject; Button: TMouseButton;
   Shift: TShiftState; X, Y
Integer);
  procedure FormCreate(Sende
TObject);
```

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVANTAGE

Intelligent Anti-Virus Toolkit

STOP VIRUS BEFORE DOS

VIRTUAL INDICATOR

GENERIC SCANNER

CLEAN WITHOUT CLEAN DOS

GENERIC BOOT/PARTITION VIRUS CLEANER

CLEAN FILE VIRUSES WITHOUT DESTROYING FILES

CLEAN MULTIPARTITE/POLYMORPHIC VIRUSES

SPECIALLY ADAPTED FOR SOUTH-EAST ASIAN COUNTRIES

NOT JUST *ANY* IMPORT FROM *FINLAND, ENGLAND* ETC.

INSTANT PROTECTION AGAINST INFECTIONS FROM FLOPPIES

Protect Your Computer Intelligently

NASSCOM'96
B•X•H•I•B•I•T•I•O•N
7 - 10 FEBRUARY 1996
BOMBAY • INDIA

HALL - B,
STALL NO. : 180

IAVT

SCANNER / FEATURES	IAVT	RED ALERT	NASHOT
Intelligent Scanning	YES	NO	NO
Reliability in Identifying Known Viruses	EXCELLENT	POOR	AVERAGE
Simultaneously Scan different Strains of a Virus	YES	NO	NO
Number of Viruses Known	10,000+	7,000+	3,000+
LAN Version Available	YES	YES	YES
System Information Display	YES	NO	NO
Continuous Progress Display	YES	NO	NO
Detection of Unknown Viruses	YES Without Additional Files or modifications	YES Additional Files or modifications	NO
Scan Speed Display	YES	NO	NO
Error Handling	EXCELLENT	Poor	Poor
Ease of Use	EXCELLENT	Poor	Poor
GENERIC B/P CLEANER	YES	NO	NO
GENERIC FILE SCANNER	YES	NO	NO
VIRTUAL INDICATOR	YES	NO	NO
CLEAN WITHOUT CLEAN DOS	YES	NO	NO
CLEAN FILE VIRUSES WITHOUT DESTROYING FILES	YES	NOT ALWAYS	NOT ALWAYS
THREE YEAR WARRANTY	YES	NO	NO
PRICE (In Rs.)	1888.00	3000.00	N/A

STOP VIRUS BEFORE DOS

All names are property or copyright of their respective companies. The above comparison is between IAVT Ver 3.01, RedAlert Ver 4.0, & Nashot Ver 17.0.

FIFTH G.E.N.E.R.A.T.I.O.N ™

Fifth Generation Software Limited

Registered Office : 5, Ashoka Park (Main), Rohtak Road, Delhi - 110 035. ☎ : 50-3299, 545-8018
Corporate Office : 140, Zamrudpur, Nehru Mkt., Opp LSR College, New Delhi - 48 ☎ : 6210808, 6224997, 6229805 Fax : 6210580
Bombay : Raj Villa 2, Outpost Military Camp, Vakola, Santa Cruz (East), Bombay -400029 ☎ : 618-5669
Ahmedabad : 27, Vijay Complex, Vasna, Ahmedabad - 380 007 ☎/Fax : 415770
Hyderabad 3-5-1033, Lane Opposite Venkatesa Theater, Narayanguda, Hyderabad - 500029 ☎ : 23 5471 Fax : 51 7410
Amritsar : Computer Associates - 228769, **Bangalore** : Namratha Electronic Centre - 6619116, **Calcutta** : Lalani International - 260441, **Chandigarh** : Vision Asia - 692181, **Delhi** : BPB Publications - 3325760, Computer Zone - 6462068, Computer Professionals - 6449960, First Computers - 2415743, Lotus Graphics - 6418046, Omniscent Computers 5731185, Shivom Computers - 6472138, Softman Computers - 6483376, Vikmans Peripherals - 6429547, **Goa (Mapusa)** : Spectrum Software & Services - 250405, **Jabalpur** : The Computer Shoppe - 25216, **Jaipur** : MicroPlus Computers - 320793, **Lucknow** : Rakshit Computers - 240895, **Madras** : Devraj Computers - 8525856, **Moradabad** : XL' Brain Computers - 317769, **Patna** : Shree Sati Computers - 659806, **Varanasi** : Computer Shoppe - 362566

OEM/Dealers enquiries solicited

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHEN YOU INTRODUCE
THE WORLD'S MOST
ADVANCED RELATIONAL
DATABASE FOR WINDOWS
THERE'S ABSOLUTELY
NOTHING MORE TO SAY
EXCEPT THAT IT'S VISUAL.
IT'S OBJECT ORIENTED.
IT'S CLIENT/ SERVER
AND OFCOURSE IT'S
WINDOWS '95 READY.

Visual dBASE®

Develop to your full potential

The Visual dBASE family of products:

- *Visual dBASE: Create standalone and networked applications for your own use.*
- *Visual dBASE Compiler: Deploy your applications to other users royalty-free.*
- *Visual dBASE Client/Server: Includes Visual dBASE, Visual dBASE Compiler, Local InterBase Server, native SQL drivers to connect to popular databases, plus a Data Pump Expert.*

For special introductory price, call / fax at the numbers below:

40/A, Lavelle Road, Bangalore - 560 001. **Phone : 2233534 / 2215010 / 2215014 Fax : 080-2218590**

Wipro SPD Offices: ● **Bangalore** Ph: 2226654 ● **Bombay** Ph: 6324886 ● **Calcutta** Ph: 2496579 ● **New Delhi** Ph: 6424126 ● **Madras** Ph: 4996968 ● **Secunderabad** Ph: 845196

WIPRO INFOTECH GROUP
SOFTWARE PRODUCTS DIVISION

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

s property controls the alignment of panel caption and, as you will shortly , we use the panel caption to display ssages on the status bar.

(c) To give the panel a distinctive tus bar look set the BevelInner perty to bvLowered and the velWidth property to 2. The velOuter property is set to bvRaised default. We've used the 8 point MS s Serif font of Navy color to display status bar messages.

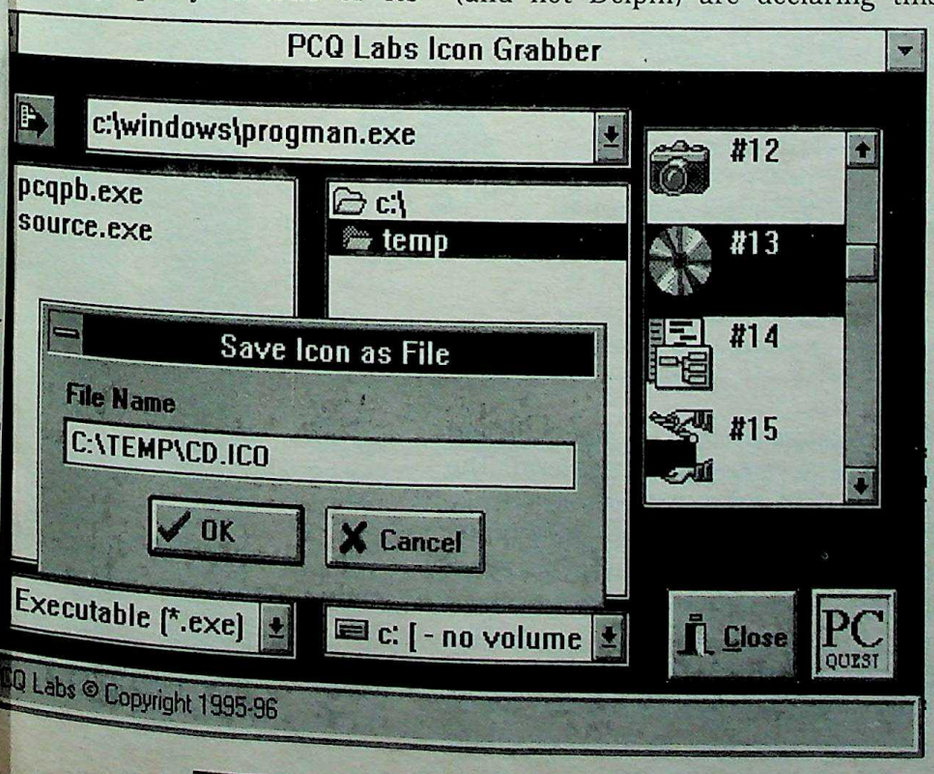
playing Status Bar Messages

n Icon Grabber, we use the status to display expanded hints using the trols on the form. Applications can use a status bar to display the rent status. Word processors and MS products use status bars with ltiple sections. In a word processor ould display the current font, color, e and page number. In a DBMS the us bar typically displays the record nber and the mode in which the file pened.

ll visual components have a hint perty. This hint property has two s separated by a | character (the pipe symbol or the C language 'or' bol). Take a look at the hint property he Filter Combo box above. We refer ie first part as the Help Hint. What specify in this part appears in a box n you rest the mouse on the ponent, provided the components wHint property is true or its ParentShowHint property is true. (In the case of the latter, whether the Help hint displays or not would in turn be governed by whether the ShowHint property of the Parent is true or not! There is more to it. An application's ShowHint property overrides the ShowHint property of all components. If it is false, no help hints will display, regardless of the values of individual components ShowHint property. By default, the application's ShowHint property is set to True. For components, however, by default the ShowHint property is set to False!)

In the second part the hint usually serves as a status bar message. For example, when we rest the mouse over the Filter Combo box, we see the help hint 'File Filter' in a yellow box at the bottom left edge of the control. But what appears on the status line is—"Choose from Executable, Icon or DLL files". This doesn't happen just by declaring the property as discussed above. We need to code it in the handler for the OnHint event of the application. Now writing an event handler for the Application object is not as simple as it seems, for you cannot use the object inspector with the Application object. See how we do it in our application.

(a) We declared a method in the type declaration of the main form. (Since we (and not Delphi) are declaring this




```
procedure
DirectoryListBox1DragOver(Sender,
Source: TObject; X,
    Y: Integer; State:
TDragState; var Accept: Boolean);
procedure
DirectoryListBox1DragDrop(Sender,
Source: TObject; X,
    Y: Integer);
  procedure
SpeedButton1Click(Sender: TObject);
  procedure
FormCloseQuery(Sender: TObject; var
CanClose: Boolean);
  procedure
QuickComboChange(Sender: TObject);
  procedure
QuickComboKeyDown(Sender: TObject;
var Key: Word;
   Shift: TShiftState);
  procedure
IconListBoxEndDrag(Sender, Target:
TObject; X, Y: Integer);
 private
  procedure DisplayIconsIn(AFile:
String);
  procedure DisplayHint(Sender:
TObject);
 public
  QuickList: TStringList;
 end;
var
 Form1: TForm1;
implementation
{$R *.DFM}
procedure
TForm1.DisplayHint(Sender:
TObject);
begin
 with StatusBar do
  if Application.Hint <> '' then
   Caption := Application.Hint
   else
   Caption := CopyrightStr;
end;
procedure
TForm1.FileListBox1Click(Sender:
TObject);
begin
 {Remove the selection from the
combo to avoid confustion}
 QuickCombo.ItemIndex := -1;
 DisplayIconsIn(FileListBox1.FileName);
end;
procedure
TForm1.DisplayIconsIn(AFile:
String);
var
 NrOfIcons, I: Integer;
 AnIcon: TIcon;
 IconHandle: HIcon;
 FileName: Array [0..255] of char;
```

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

method, it must go either in the private or public part of the type declaration. The space above is managed by Delphi and linked to the .DFM file.)

```
private
.
.
procedure DisplayHint(Sender: TObject);
```

Notice the Sender: TObject parameter. This is because the procedure serves as an event handler.

(b) We code the method in the implementation part of the unit. Here's the code:

```
procedure TForm1.DisplayHint(Sender:
TObject);
begin
 with StatusBar do
  if Application.Hint <> '' then
   Caption := Application.Hint
   else
     {Display the copyright string
constant}
   Caption := CopyrightStr;
end;
```

(c) We attached this method to the Application.OnHint event in the OnCreate event handler of the main form as follows

```
Application.OnHint := DisplayHint.
```

As far as Icon Grabber is concerned, this is all that you need to know. However, Delphi allows you to control the color, position and width of the help hints that appear using the OnShowHint property of the Application object.

Go through the on line documentation of the Application object if you really want to feel on top. Also, for more on the Status bar, check out page 345 of the Delphi User's Guide.

Using .INI Files

The Icon Grabber has a Quick Files feature that allows you to quickly pick a file and view the icons in it. This saves you the time and effort of navigating through the directory tree for your favorite files. A combo list box and a speed button at the top of the form are used to implement this feature. The combo list stores the names of up to eight files that you can quickly select. To add a file to the quick file list, you select the file in the file list box below and click on the speed button. If the list has eight files already, the earliest file is removed (FIFO). To delete a file from the list, with the file selected in the combo, press the delete key. We use an .INI file to make our quick file list persistent. Delphi makes it easy to read and write .INI files. The TIniFile object does all the work for you. Go through the online documentation for the object for more details. Here, I will confine myself to only those methods that we use in the Icon Grabber.

An application usually reads its .INI file when it starts up. The event handler for the OnCreate event of main form is a good place to write the code to read the file. We have seen a part of this event handler above. Let's look at the whole thing:

```
procedure TForm1.FormCreate(Sender:
TObject);
var
 IniFile1: TIniFile;
 I: Integer;
 ValueStr: String;
begin
 Application.OnHint := DisplayHint;
 IniFile :=
ExtractFilePath(Application.ExeName) +
IniFile;
 QuickList := TStringList.Create;
 IniFile1 := TIniFile.Create(IniFile);
 I := 0;
 repeat
  ValueStr :=
IniFile1.ReadString(ProgName,
IntToStr(I),'ERROR');
  if ValueStr = 'ERROR' then
     Break
   else
   begin
     I := I + 1;
   QuickList.Add(ValueStr);
   end;
 until I = MaxQuick-1;
 QuickCombo.Items := QuickList;
 IniFile1.Free;
end;
```

We define a constant IniFile before the type declaration for the form. The use of a constant allows us to change the name of the .INI file anytime in the project. In the var section of the event handler we define a TIniFile object variable. (The name for the variable, IniFile1 admittedly, lacks imagination.) This application creates its .INI file in the same directory as the executable

```
begin
 {It is our responsibility to
the memory for these objects}
 {TStrings and TStringList obj
dispose only strings automatica
 with IconListBox.Items do
   for I:= 0 to Count-1 do
    TIcon(Objects[I]).Free;
 IconListBox.Clear;
 StrPCopy(Filename, AFile);
 {Object Pascal type checking
forces us to use the Word cast}
 NrOfIcons :=
ExtractIcon(HInstance,FileName,
Word(-1));
 if NrOfIcons > 0 then
  for I:=0 to NrOfIcons-1 do
   begin
IconHandle :=
ExtractIcon(HInstance, FileNam
I);
    if IconHandle > 1 then
     AnIcon := TIcon.Create
       try
       AnIcon.Handle :=
IconHandle;
     IconListBox.Items.AddO
('#'+IntToStr(I), AnIcon);
       except
        AnIcon.Free;
         raise;
       end;
   end;
end;
procedure
TForm1.IconListBoxDrawItem(Con
TWinControl; Index: Integer;
 Rect: TRect; State:
TOwnerDrawState);
var
 Icon: TIcon;
begin
with (Control as TListBox).Can
do
 begin
  FillRect(Rect); {Clear the
drawing area}
Icon := TIcon(IconListBox.Ite
Objects[Index]);
   if Icon <> nil then
    Draw(Rect.Left, Rect.To
Icon);
  TextOut(Rect.Left + Icon.
+ 8, Rect.Top,
IconListBox.Items[Index]);
 end;
end;
procedure TForm1.FormClose(Se
TObject; var Action: TCloseAc
var
 I: Integer;
begin
 with IconListBox.Items do
```

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PROTECTOR PLUS ver 5.0

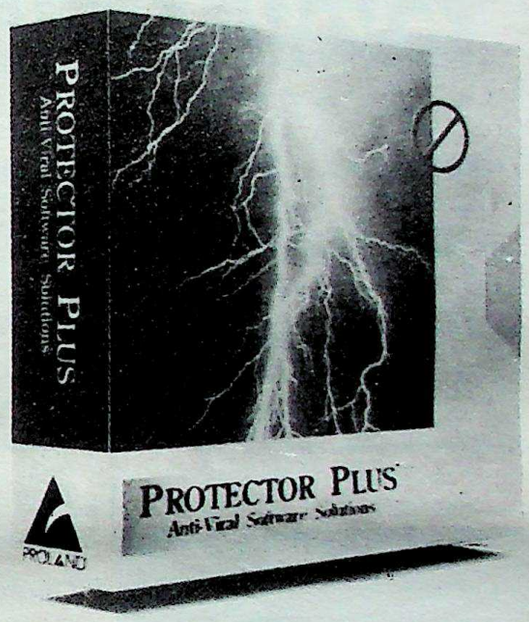
Anti-viral Software Solution

Compatible with:
- Windows 95
- Windows 3.1
- MS-DOS
- Novell-DOS
- OS/2

Anti -Viral Software Solution

Introducing **Protector Plus ver 5.0**. The anti-viral software solution for stand-alone PCs. Its installation immunises the system against virus infiltration. Unlike other products in the anti-virus category that largely depend on a scan routine to detect the presence of virus, **Protector Plus** has on-line virus prevention system working round-the-clock.

- All types of boot viruses—known or unknown are automatically eliminated. Boot sector and partition table can be rebuilt.
- Monitors system for viral-like activity, preventing new file viruses from entering the system.
- Can detect changes in status of files and reconstruct them to their original state.
- Scans all files accessed, through any operation—read, write, copy, install, download, unzip, execute, etc...
- Select directories or entire drives can be scanned automatically at pre-scheduled intervals.
- Extensive and exhaustive reports on viral activity and scan results.



PROLAND

Write, call or fax us for further information on this exciting new anti-viral software

PROLAND SOFTWARE PVT. LTD.,
19, Gangadhar Chetty Road, Bangalore-560 042
Phone: (080) 570033, 5511091 Fax: (080) 5511091
E-mail: subbu.proland@axcess.net.in

WE PRODUCE INTELLIGENT SOLUTIONS

Protector Plus For NetWare
Your Future Proof Solution to virus problems
yes It runs with NetWare

Distributors:
ADIT MICROSYS (P) Ltd., **Ahmedabad** Tel: 079-408045, Telefax: 6425256
ANSI SYSTEMS (India) Pvt. Ltd., **New Delhi** Tel: 011-6863287, 6854196 Telefax: 6968663

Dealers:
Ludhiana:Litratim Microspecialities, Tel: 0161-456891/455860 **Kochi**: Spiegel, Tel: 0484-348202, Fax: 370136 **Gangtok**: Sikkim Computer Services (P) Ltd., Tel: 03592-22279, Fax: 22543 **Jamshedpur**: Engineers & Consultants, Tel: 0657-29655, Fax: 26450 **Ahmedabad:** Manan Enterprises Tel: 490338, Fax: 493-406; Bhavi Electromech, Telefax: 6633234 **Hyderabad**: Susha Technologies Tel: 391954, Fax: 243634; Software Consultancy Group, Tel: 040-842247 **Goa**: Jay Kay Enterprises Tel: 0832-736262/3 **Poona**: Link Software & Systems (P) Ltd., Tel: 335988/349342, Fax: 212-365694.**Bombay**: Software Consultancy Group, Tel: 022-4301175/4302072, Fax: 4224912, E-Mail: bombay.scg@axcess.net.in **Madras**: Software Consultancy Group, Tel:.044-4340942, 4342938 Telefax: 4348912

DEALERSHIP ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

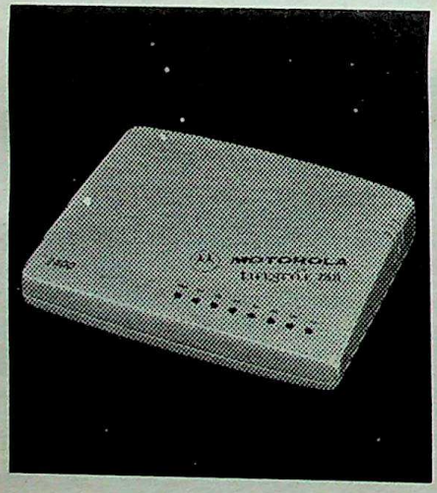
Digitized by Arya Samaj Foundation Chennai and eGangotri

Motorola's Lifestyle Series

28.8 DATA/FAX MODEM.

"No modem we tested could match the performance of the Motorol
This speedster ripped through our performance tests and had higher successful connection rates than the rest of the pack."

- PC World, June 1995



But there's more. Computer Life, March 1995 says,
" Lifestyle may be smaller than my little black book, but its just as capable as the full-sized modem in my desktop machine."
Online Access, May 1995: " These modems are perfect for users who retrieve information from on-line services, play interactive, on-line gar and bank or shop electronically." PC Computing, June 1995:
" When it comes to 28.8 kbps modem speed, nothing tops Motorola."
Computer Life, September 1995: " This modem (Motorola V.34 modem is a real bargain and a much better deal than any of the competition."
As you can see, Motorola's Lifestyle Series of modems speak for themse

MOTOROLA

Information Systems Group

108, Gavipuram Guttahalli, Off Bull Temple Road, Bangalore 560019.
Ph: 91(080) 6612973/74/75/76 Fax: 91(080) 6612977.

Beyond the LAN... network only with Motorola WAN devic

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

file. We obtain the path to this directory from the ExeName property of the Application object using the Delphi function—ExtractFilePath, and add to it the IniFile name constant to obtain the full path of the .INI file. Next, we create a TSTRINGLIST object for our Quick list and the IniFile object.

Our .INI file has just one section, for which we use the ProgStr constant as the section heading. (Examine the contents of ICONGRAB.INI file if you have the application files with you.) We cycle through the entries in this section using the method ReadString that takes three parameters:

(a) The section name

(b) The Identifier for which we want a value. (Again these are unimaginatively named as 0, 1, 2..7!)

(c) A constant that serves as the default string value in case no value is read. We use this to break out of the loop.

The values read are added to the Quick list. Finally the Items in the QuickList are assigned to the Items property of the QuickCombo and IniFile1 is freed. There are two event handlers associated with the Quick Files feature that we need to cover. The code is self explanatory.

```
procedure TForm1.FileListBox1Click(Sender:
TObject);
begin
 {Remove the selection from the combo to
avoid confusion}
 QuickCombo.ItemIndex := -1;
 DisplayIconsIn(FileListBox1.FileName);
end;
procedure TForm1.QuickComboChange(Sender:
TObject);
begin
 DisplayIconsIn(QuickCombo.Text);
end;
```

Using .INI Files

The Icon Grabber displays the Icons it extracts from a file in a TListBox component on the right of the formintf. The TListBox component of Delphi, encapsulates the Windows list box. It has an Items property of type TStrings. Incidentally, a combo box too has an items property. Where the TListBox component differs from the combo box component is in the fact that you cannot interactively enter new strings into the Item list of a TListBox. You need to do so through a program.

The Items property, as has been mentioned, is of type TStrings. This is an abstract class. The TListBox component and the TSTRINGLIST object are derived from this abstract class. The TString class, as is obvious from its name, can store a list of strings. What is less obvious, is the fact that you can associate an object with each string stored in the String List. In addition to its indexed Strings property, which contains strings, a string list also has an Objects property.

You can either add objects at the same time you add the strings, or associate an object with an existing string subsequently. Before dwelling more on it I would like you to go through the code for the DisplayIconsIn() method of TForm1.

```
procedure TForm1.DisplayIconsIn(AFile:
String);
var
 NrOfIcons, I: Integer;
 AnIcon: TIcon;
 IconHandle: HIcon;
 FileName: Array [0..255] of char;
begin
 {It is our responsibility to free the
memory for these objects}
 {TStrings and TStringList objects dispose
only stringsautomatically}
 with IconListBox.Items do
  for I:= 0 to Count-1 do
   TIcon(Objects[I]).Free;
 IconListBox.Clear;
 StrPCopy(FileName, AFile);
 {Object Pascal type checking forces us to
use the Word cast}
 NrOfIcons :=
ExtractIcon(HInstance,FileName, Word(-
1));
 if NrOfIcons > 0 then
  for I:=0 to NrOfIcons-1 do
   begin
   IconHandle := ExtractIcon(HInstance,
FileName, I);
    if IconHandle > 1 then
     AnIcon := TIcon.Create;
       try
      AnIcon.Handle := IconHandle;
  IconListBox.Items.AddObject('#'+IntToStr(I),
AnIcon);
      except
       AnIcon.Free;
        raise;
       end;
   for I:= 0 to Count-1 do
    TIcon(Objects[I]).Free;
end;
procedure
TForm1.IconListBoxMouseDown(Sender:
TObject;
 Button: TMouseButton; Shift:
TShiftState; X, Y: Integer);
begin
 {Drag only if left button
pressed}
 if (Button = mbLeft) then
  {Treat sender as TListBox}
  with Sender as TListBox do
   begin
    {Do we have an item there? }
    if ItemAtPos(Point(X, Y),
True) > -1 then
     BeginDrag(False);
   end;
end;
procedure TForm1.FormCreate(Sender:
TObject);
var
 IniFile1: TIniFile;
 I: Integer;
 ValueStr: String;
begin
Application.OnHint :=DisplayHint;
IniFile :=
ExtractFilePath(Application.
ExeName) + IniFile;
 QuickList := TStringList.Create;
 IniFile1 :=
TIniFile.Create(IniFile);
 I := 0;
 repeat
  ValueStr :=
Inifile1.ReadString(ProgName,
IntToStr(I), 'ERROR');
  if ValueStr = 'ERROR' then
    Break
   else
   begin
    I := I + 1;
   QuickList.Add(ValueStr);
   end;
 until I = MaxQuick-1;
 QuickCombo.Items := QuickList;
 IniFile1.Free;
end;
procedure
TForm1.DirectoryListBox1DragOver
(Sender, Source: TObject; X,
 Y: Integer; State: TDragState;
var Accept: Boolean);
begin
 Accept := Source is TListBox;
end;
procedure
TForm1.DirectoryListBox1DragDrop(Sender,
Source: TObject; X,
 Y: Integer);
```


CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
    end;
  end;
```

In the DisplayIconsIn() method we add the objects at the same time as we add the strings with the call

```
IconListBox.Items.AddObject('#'+IntToStr(I),
AnIcon)
```

To associate an object with an existing string in our application, we would need to use a call such as

```
IconListBox.Items.Objects[IndexOf('#3')] :=
AnIcon;
```

Extracting An Icon

Other than that the code is straight forward. The first thing we do is clear the list box. A call to the clear method of the list box is not enough. If you did that you would be losing significant chunks of memory every time you cleared the list. Operating with files, such as MORICONS.DLL, that are loaded with icons you would very soon find your computer lapsing into hopeless amnesia! The caveat is— If you allocate the memory, it is your responsibility to release it. That is exactly how we start in the procedure. We first free the icons and then call the Clear method. We next call the ExtractIcon function of the Windows API. This function takes three parameters:

(a) Instance of the application calling the function.

(b) A null terminated string that points to the executable file, DLL or Icon file from which to extract the Icon(s).

(c) The index of the Icon to be extracted. If this parameter is zero the function returns a handle to the first icon in the specified file. If the parameter is -1 the function returns the total number of icons in the specified file.

We start by setting the Index parameter to -1. If there are icons to be extracted, for each icon in the file, we create an Icon object, extract the icon (specifying the correct icon number this time!) , assign its handle to the Icon object and then add the object to the items in the IconListBox.

Notice the use of a try...fail block to free memory allocated to the icon object that we create, in case things go wrong.

Using Owner Draw List Boxes

When you associate an object such as a bitmap or icon with the Items in a TListBox, the List box does not automatically display the graphics. You still get to see the strings only! Before I go on to explain how you get to see the bitmaps in the List Box let us first take a look at the significant properties of the ListBox component.

```
IconListBox: TListBox
Hint = 'Icon List|To save as file, drag and
drop in a directory'
IntegralHeight = True
ItemHeight = 40
ShowHint = True
Style = lbOwnerDrawFixed
```

In order to make the list box display the icons we first set the Icon List Box properties as follows:

(a) Set the Style of List box to lbOwnerDrawFixed. The other options are lbOwnerDrawVariable and lbStandard. When the style is set to lbOwnerDrawVariable the application has to determine the height for each item in the list. This is done using the event handler for the OnMeasureItem event which Delphi calls for each item. When the style is set to lbStandard, Delphi uses a fixed height for the items, depending on the font currently in use. (Refer to Page 367 of the User's Guide)

(b) Set the ItemHeight to 40. To display an icon we would need a minimum of 32 pixels, but 40 looks neater.

(c) Set the IntegralHeight property to True. This ensures that the last icon of the display does not get truncated. The main work is done by the event handler for the OnDrawItem event of the Icon List Box. If the List Box style property is lbOwnerDrawFixed or lbOwnerDraw Variable, Delphi, rather than display the items in the default manner, signals an OnDrawItem event to the List Box for each item that it needs to display. Here is how we handle the event in the Icon Grabber.

```
procedure
TForm1.IconListBoxDrawItem(Control:
TWinControl; Index:
Integer; Rect: TRect; State:
TOwnerDrawState);
var
 Pos: Integer;
 ClickedoK: Boolean;
 IconFileName: String;
 Icon: TIcon;
begin
 if (Source is TListBox) then
 begin
  with DirectoryListBox1 do
   begin
   {Which directroy was the Icon
dropped in?}
   Pos := ItemAtPos(Point(X, Y),
True);
    If Pos > -1 then
    begin
IconFileName := GetItemPath(Pos);
     {The path name for the root
directory has a backslash at the
end!}
      if
IconFileName[Length(IconFileName)]
= '\' then
       IconFileName :=
IconFileName + '*.ICO'
       else
IconFileName := IconFileName +
'\*.ICO';
      ClickedOK :=
InputQuery('Save Icon as File',
'File Name',IconFileName);
     if ClickedOK then
      begin
        try
if FileExists(IconFileName) and
(MessageDlg('A file by this name
already exists! Oyerwrite?',
mtWarning,
  [mbNo, mbYes], 0) = mrNo) then
            Exit;
(TIcon((Source as
TListBox).Items.Objects
[(Source as TListBox).ItemIndex]))
SaveToFile (IconFileName);
         except
MessageBeep(MB_ICONEXCLAMATION);
          raise;
        end;
       end;
     end;
   end;
 end;
end;
procedure
TForm1.SpeedButton1Click(Sender:
TObject);
begin
with FileListBox1 do
if Focused and (ItemIndex > -1)
then
   if MessageDlg('Insert ' +
LowerCase(FileName) + ' into Quick
Files List?', mtConfirmation,
```

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

microware CD-ROM

OVER 165 CD-ROM TITLES

For DOS, WINDOWS, UNIX, OS/2 and MACINTOSH

Simtel (2 CD Set)

Direct from Internet, over 1200 Mb (10,000 files) of MSDOS Shareware programs.

Rs. 1,650/-

CICA (2 CD Set)

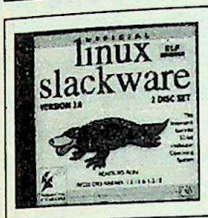
The ultimate collection of Shareware for Windows! 5120 Programs (1,320 Mb) for Microsoft Windows. Utilities, Games, Icons, Programming Tools.

Rs. 1,125/-

VISIONS

500 royalty free colour corrected photos in 640 x 480 and 600 x 800 GIF format. For Win, Dos and Mac

Rs. 1,575/-



Linux 3.0 (2 CD Set)

Slackware Linux is the Internet's favourite 32 bit Unix clone. Linux is compatible with most Intel PC hardware from 386 to Pentium.

Rs. 1,575/-

GIGA GAMES 3

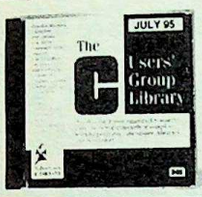
You'll enjoy a collection of 1710 games in over 40 categories. With so many games to choose from, you're guaranteed to have hours of fun ahead of you!

Rs. 1,575/-

Awesome Animations

A unique collection of 197 files of the latest CAD rendered animations. All royalty free! For Win, Dos and Mac

Rs. 1,000/-

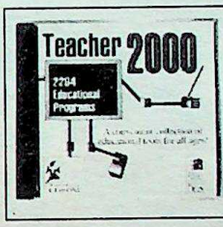


C User's Library

A collection of user supported C and C++ source code. Most of the source code is for DOS with recent additions for Unix.

Rs. 2,250/-

Ask for your copy of our CD-ROM catalogue on disk. Our CD-ROM Catalogue-on-Disk software gives you complete information including features, system requirements of all the CD-ROM titles that we stock. You also get 10 True Type Fonts and 100 B&W Cliparts Free! The Catalogue is available on 1.44 Mb Floppy Disk and is priced at Rs. 100/- The Catalogue amount is adjustable against your first order of any CD-ROM Title



Teacher 2000

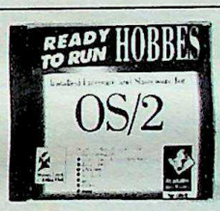
A convenient collection of educational tools for all ages! Over 2,294 educational programs for MSDOS and Windows. There's something here for everyone!

Rs. 1,575/-

Corel Photo CDs - For PC & Mac

A large collection of royalty free colour corrected photographs in Kodak Photo CD format from Corel - makers of Corel Draw! Each CD has 100 stunning photographs. The collection covers a vast category of topics. We also stock royalty free photograph CD-ROMs from other vendors.

Call for pricing



Hobbes OS/2 (2 CD set)

Thousands of OS/2 programs direct from Hobbes Internet Software Collection Over 800 Mb of virus scanned programs.

Rs. 1,125/-

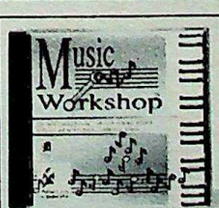
Science Library

A collection of hard to find scientific, technical and specialist applications for Dos and Windows. Includes reference book describing all the programs

Rs. 2,000/-

Gifs Galore

This CDROM contains over 5000 full colour GIF images and viewers for a wide variety of systems including MSDOS, Macintosh, Amiga and Unix.

Rs. 1,575/-

Music Workshop

The most comprehensive collection (over 500 Mb) of music shareware, professional demos, Wavs, Midis, educ. and more. For Windows

Rs. 2,000/-

Clip Art Cornucopia

Over 5050 black & white images, (408 Mb) covering 95 different categories. The images are in PCX and WPG format for maximum portability. For DOS, WINDOWS

Rs. 1,575/-

Over 165 titles on General / Shareware, Operating Systems, Programming Tools, Utilities, Edutainment, Desktop Publishing, Cliparts, Fonts, Animation, Graphics, Video, MPEG II Movies, Video CDs, Photo CDs, Image Libraries, Games, Music, Sound, Macintosh, Special Interest and many more

Microware Computer Services

1, Paras, Near Dr. Baliga Nursing Home, S. V. Road, Goregaon (West), Bombay 400 062 Tel : 872 74 46, 872 97 25, Fax : 872 74 46

Microware CD-ROM collection is also available at :

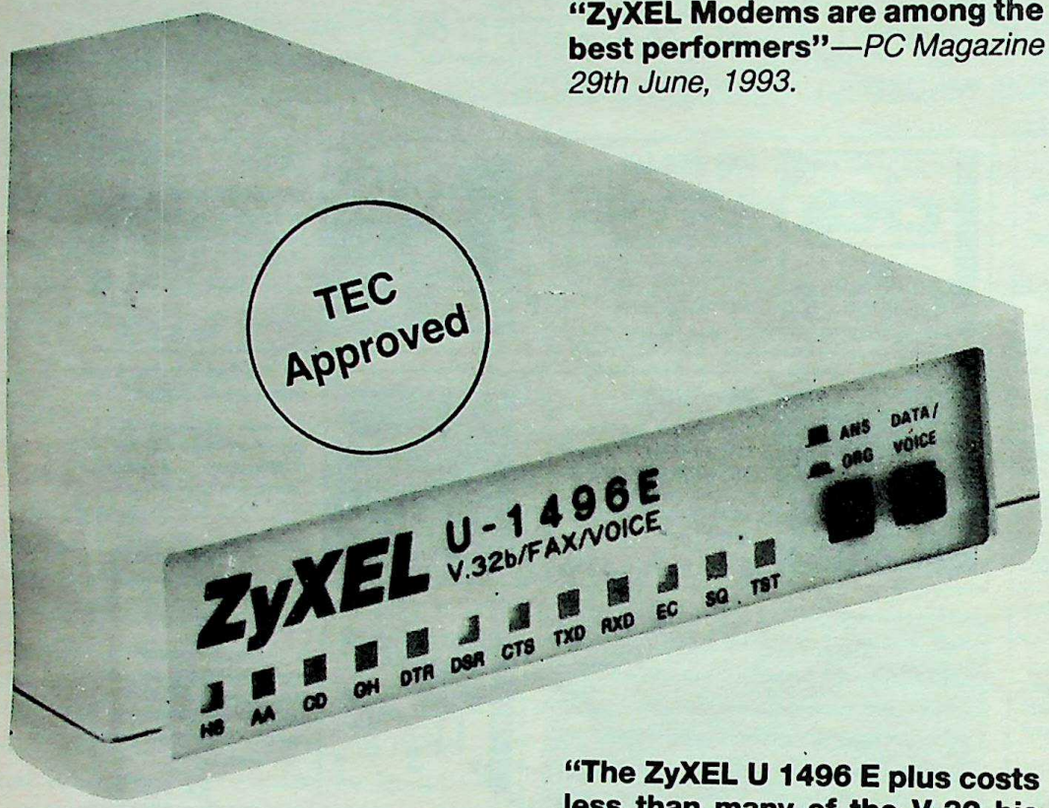
RAINBOW, 41, Crescent Mansion, Opposite Gamdevi Police Station, Nana Chowk, Bombay 400 007. Tel : 389 40 50, 389 40 51 Fax: 386 09 91

For Outstation Orders, 100% advance has to be remitted by Demand Draft in favour of Microware Computer Services payable at Bombay. Outstation orders will be shipped by courier. Please add Rs. 100/- for packaging and courier charges. When ordering our Catalogue, please add Rs. 25/ for shipping and packaging charges. Microware is the authorised distributor of Walnut Creek CDROM (USA), Tech Express Inc. (USA), PS Multimedia (USA) and Accurate Research Inc. (USA).

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TRIBUTES FROM THE LEADERS — TO A LEADER



"ZyXEL Modems are among the best performers"—*PC Magazine 29th June, 1993.*

"The ZyXEL U 1496 E plus costs less than many of the V-32 bis Modems-that it out performs"—*PC Digest-Rating report.*

"ZyXEL Modems are with Features, they com virtual treasure b surprises."—*Boardwatch Magazine November 3, 19*

"ZyXEL Modems sco three-way tie for best Tw Communications Modem" *Magazine July, 1993.*

"Once, Online the M showed why it is so popul BBS operators. It stayed rarely disconnected... unl course, the remote mode up...this modem is excelle highly recommended" *Quest October, 1994.*

"Some Modems are Good Modems are fast Z MODEMS are good & fa *Computer Shopper July, 19*

"The ZyXEL Modem is fa practically across the Bo *Network World May, 10, 19*

Leading publications around the World continue to rave about, recognise and hail the entry and emergence of a world leader in Data Communications-**ZyXEL.**

PC Magazine, USA tested 62 Modems & honoured '**ZyXEL**' as **"one of the only 3 Modems proving 100% reliable Communications".** The summary of what a few other world leaders have to say is given above.

Leading Data Communications Experts and consultants around the world mostly use and recommend-**ZyXEL** Modems. Those in India-have been getting **ZyXEL** from abroad – till now.

ZyXEL MODEM/FAX/VOICE Broad Features:—

- ★ 14,400/28,800 bps ultra highspeed Data Transfer.
- ★ Auto Fall Forward/Fall back to 300 bps.
- ★ Synchronous/Asynchronous Mode/s.
- ★ Excellent performance even on bad line conditions.
- ★ V-42 bis/MNP5 data compression.
- ★ V-42/MNP4 error control.
- ★ Remote configuration.
- ★ GP-3 Fax at 14,400 bps with Auto-step down upto 2400 bps
- ★ 3 bit and 2-Bit ADPCM voice digitization at 28,8 and 19,200 bps.
- ★ Advanced Voice mail capacity upto 1000 Voice/Fa mail Boxes.

ZyXEL Modems carry a **2 Year Warrant** are available in various Models From 1 bps upwards.

ZyXEL

ZONAL DISTRIBUTOR ★

EDP

EDP AIDS PVT LTD

B-32, Lajpat Nagar-2, New Delhi-110024
Phones: (91-11): 683 3192, 684 6299, 684 6793, Fax: 684
E-Mail (Sprint Mail): edp.aids/edpa
X-400: (C:IN, A:VSNL, P:SPRINTRPG, O:EDPA, FN:EDP, S
internet: edp. aids@edpa.sprintrpg.sprint.com

★ Associates: Xon Communications Pvt. Ltd.

• SALES • SERVICE • SUPPOR

• COMPUTERS • COMMUNICATIONS • OFFICE AUTOMA

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

```
 Icon: TIcon;
begin
 with (Control as TListBox).Canvas do
 begin
FillRect(Rect); {Clear the drawing area}
Icon := TIcon(IconListBox.Items.Objects
[Index]);
  if Icon <> nil then
   Draw(Rect.Left, Rect.Top, Icon);
  TextOut(Rect.Left + Icon.Width + 8,
Rect.Top,IconListBox.Items[Index]);
 end;
end;
```

We start by clearing the drawing area with FillRect(Rect). Next we cast the object associated with the item as a TIcon. If there is an Icon object, we Draw it at the top left edge of the rectangle. (The Draw method can be used to draw bitmaps, icons or metafiles at the screen pixel coordinates specified.) The following TextOut method of the Canvas puts a gap of 8 pixels between the icon and the string associated with the icons. That is all there is to it, and the result is the beautiful display of icons in the list box!

Simple Drag And Drop

Drag and drop can make your interface intuitive, as well as reduce mouse operations. The challenge is in recognizing when it should be resorted to. In the Icon grabber the directory list box is placed adjacent to the IconListBox. It therefore makes sense to allow the user to drag an icon to a directory in order to save it as a file. An alternative would have been to use a pop up menu with a Save As File option, which in turn would call a directory navigation dialog box to let the user select a directory. Using Drag and Drop we let the user first select the target directory and then simply drop the icon into it. This has the added advantage of letting the user immediately see the file that he/she creates in the file list box.

Simple drag and drop involves the following four steps

(a) Drag operation starts.

(b) The target component signals readiness to accept the dragged item

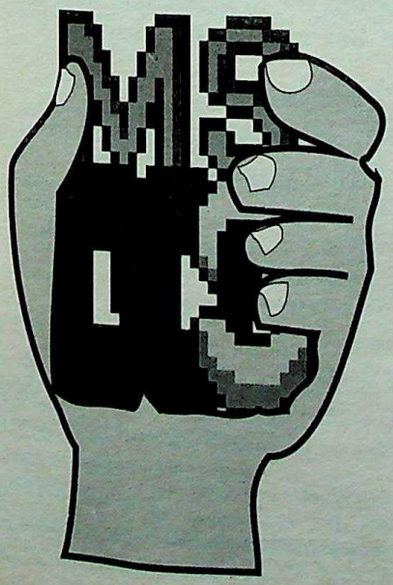
(c) The user drops the item.

(d) The drag operation ends.

Starting A Drag Operation

All Delphi components that encapsulate window controls have a property called DragMode. If you set this property to dmAutomatic, a drag operation commences the moment you click on the control. You need not write any code. However, it is more usual for this property to be set to the alternate value of dmManual, which is also the default. Typically, in a list box control you would first like the selection to change in response to the click and then have the drag operation start. With the property set to dmManual you have the option to delay a drag operation. To do so, you need to handle the OnMouseDown event of the control and start the drag manually with a call to the BeginDrag method of the control. Take a look at the code for the OnMouseDown handler of the IconListBox

```
procedure
TForm1.IconListBoxMouseDown(Sender:
TObject;
 Button: TMouseButton; Shift: TShiftState;
X, Y: Integer);
begin
 {Drag only if left button pressed}
 if (Button = mbLeft) then
  {Treat sender as TListBox}
  with Sender as TListBox do
   begin
    {Do we have an item there? }
    if ItemAtPos(Point(X, Y), True) > -
1 then
     BeginDrag(False);
```



```
[mbYes, mbNo], 0) = mrYes then
      with QuickList do
       begin
if IndexOf(FileName) = -1 then
         begin
          if Count = MaxQuick
then
           Delete(Count -1);
          Insert(0,
LowerCase(FileName));
 QuickCombo.Items.Add(FileName);
         end
         else
  MessageDlg(LowerCase(FileName)
+ ' already in Quick Files List',
mtInformation, [mbOk], 0);
       end;
end;
procedure
TForm1.FormCloseQuery(Sender:
TObject; var CanClose: Boolean);
var
 IniFile1: TIniFile;
 I: Integer;
begin
 CanClose := True;
 DeleteFile(IniFile);
 IniFile1 :=
TIniFile.Create(IniFile);
for I:=0 to QuickList.Count -1 do
  IniFile1.WriteString(ProgName,
IntToStr(I), QuickLIst[I]);
 IniFile1.Free;
end;
procedure
TForm1.QuickComboChange(Sender:
TObject);
begin
 DisplayIconsIn(QuickCombo.Text);
end;
procedure
TForm1.QuickComboKeyDown(Sender:
TObject; var Key: Word;
 Shift: TShiftState);
begin
 With QuickCombo do
  if (Key = VK_DELETE) and
   (ItemIndex > -1) then
    begin
  QuickList.Delete(QuickList.IndexOf
(Items[ItemIndex]));
    Items.Delete(ItemIndex);
    end;
end;
procedure
TForm1.IconListBoxEndDrag(Sender,
Target: TObject; X,
 Y: Integer);
begin
 if Target <> nil then
FileListBox1.Update;
end;
end.
```


CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
    end;
end;
```

The BeginDrag method takes a Boolean parameter. When set to True, the drag operation starts immediately. When set to False, the drag operation commences only after the mouse moves for 5 pixels with the button pressed. Note the use of the ItemAtPos method for the List Box. The second parameter ensures that we get a valid return only when an item exists at that position. With this parameter set to false, we would get a valid return even if the item slot was vacant. What would be returned is the position of the empty slot.

Accepting Dragged Items

After a drag operation starts, if the user drags the item over a control the control receives an OnDragOver event. The control can signal its willingness to accept the dragged item in the handler for this event, by setting the Accept variable parameter of the event handler to True. Delphi, responds by changing the drag cursor to signal that the item can be dropped. If the handler sets the Accept parameter to False, the drag cursor indicates that the item cannot be dropped. Examine the OnDragOver event handler for the Directory List Box.

```
procedure
TForm1.DirectoryListBox1DragOver(Sender,
Source:
TObject; X,
 Y: Integer; State: TDragState; var
Accept: Boolean);
begin
 Accept := Source is TListBox;
end;
```

The Sender parameter of the handler refers to the control receiving the event and the Source parameter refers to the control from where the drag operation commenced. It is usual to use the Source parameter to determine whether a drop is acceptable. In our code, the Directory List Box only accepts items form the Icon List Box. Refer to the Online documentation for the State parameter. It gives you a lot of flexibility. The X and Y parameters indicate the current location of the mouse cursor.

The Drop

If the mouse cursor indicates that the control below will accept an item, the user can drop it by releasing the mouse button. If he or she does so, the application will send a drag-drop event to the control. If the control does not signal acceptance, it does not receive a drag-drop event even if the user releases the mouse button over the control. This is how the Directory List Box handles the drop of a icon on it.

```
procedure
TForm1.DirectoryListBox1DragDrop(Sender,
Source:
TObject; X,Y: Integer);
var
 Pos: Integer;
 ClickedOK: Boolean;
 IconFileName: String;
 Icon: TIcon;
begin
 if (Source is TListBox) then
 begin
  with DirectoryListBox1 do
   begin
   {Which directory was the Icon dropped
in?}
    Pos := ItemAtPos(Point(X, Y), True);
     If Pos > -1 then
      begin
     IconFileName := GetItemPath(Pos);
        {The path name for the root
directory has a backslash atthe end!}
if IconFileName[Length(IconFileName)] =
'\' then
IconFileName := IconFileName + '*.ICO'
       else
IconFileName := IconFileName + '\*.ICO';
    ClickedOK := InputQuery('Save Icon
as File', 'File Name',IconFileName);
      if ClickedOK then
       begin
         try
if FileExists(IconFileName) and
(MessageDlg('a file by this name already
exists!Overwrite?', mtWarning,[mbNo,
mbYes], 0) = mrNo) then
             Exit;
                  (TIcon((Source as
TListBox).Items.Objects
          [(Source as
TListBox).ItemIndex])).SaveToFile(IconFileNa
        except
      MessageBeep(MB_ICONEXCLAMATIO
         raise;
       end;
      end;
     end;
    end;
  end;
end;
```

Though the code is long, is straightforward. We handle drop only when the source is t Icon List Box. We determine the directo on which the drop has taken pla with a call to the ItemAtPos() metho The GetItemPath() method then giv us the path to the directory. We u this path to let the user name the f in an Input Box. The actual operati of saving the icon to a file is do with a call to the SaveToFile() meth of the TIcon type. The call loo daunting because of the type casts.

Ending A Drag Operation

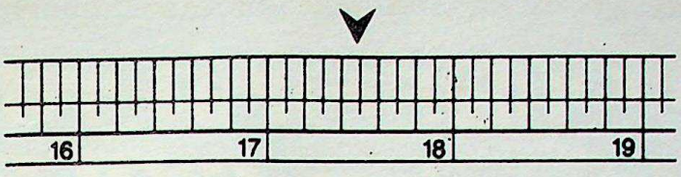
A drag operation will end followi the drag drop. Delphi signals the end a drag operation by sending t OnEndDrag event to the control fro where the drag started. The point interest here is that Delphi will send t OnEndDrag event whether or not t drag was successful. The contr receiving the event can determine i outcome by examining the Targ parameter. If the target parameter is it indicates an unsuccessful dr Otherwise it points to the control t received the drop. Here is how the Ic List Box handles the event.

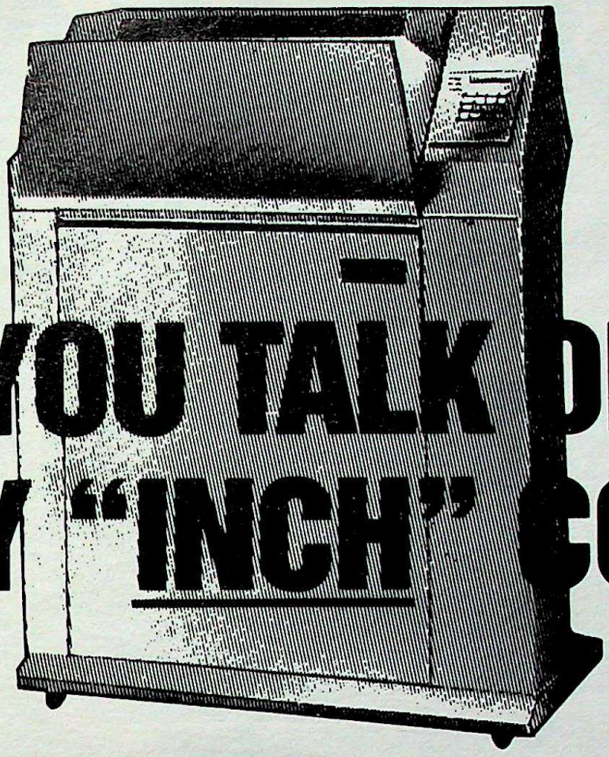
```
procedure
TForm1.IconListBoxEndDrag(Sender,
Target: TObject; X,
 Y: Integer);
begin
 if Target <> nil then
FileListBox1.Update;
end;
```

VK Tha
is a PC Quest contributing ed
and a Delhi-based database
information consul
You can reach him at kuku.thak@axcess.n
or as THAK on PCQ On

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri





WHEN YOU TALK OF WIDTH EVERY "INCH" COUNTS

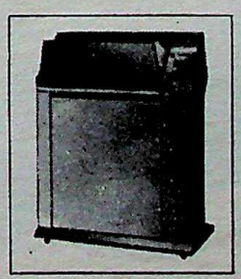
* **Widest Carriage :** Lipi offers widest carriage in Line Matrix Printers - 17 1/2 inches (optional). 1 1/2 inch of added carriage width to accommodate large size forms like two Bank Cheques / Share Certificates printed abreast, thus doubling the throughput as compared to the competition. This gives you an advantage of having two printers for the price of one.

Additional benefits of Mannesmann Tally Lipi Line Matrix Printers :

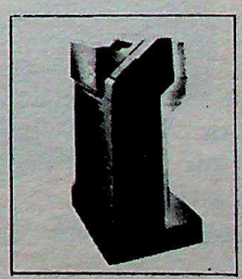
* **Proven Reliability :** In India with thousands of installations against nil of competition.
* **Superior Print Quality :** Because of hard material used for printing elements.
* **Superior Paper Transport :** 4 tractors for reliable and fast paper movement and also reverse paper motion for printing graphics. Competition has only 2 tractors.
* **Multiple Interface :** Simultaneously active serial and parallel shared interfaces with auto switching, while competition requires selection from the front panel.
* **In-line ethernet interface :** Network printer.

EXCELLENT BUY FOR PRINTING SHARE CERTIFICATES / BANK CHEQUES

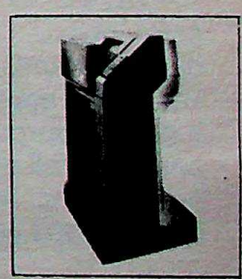
LIPI EXCELS IN HIGH SPEED, HEAVY DUTY COMPUTER PRINTERS



MT691
1400 LPM



MT661
800 LPM



MT645
450 LPM

Lipi

ISO 9001

LIPI DATA SYSTEMS LTD.
Head Office : Mittal Chambers, Nariman Point, Bombay - 21.
Tel: 2882960 / 61 / 62 / 63 / 64. Fax: 91-22-2873314.

MANNESMANN *Tally*

- **Bombay** : Ph.2882960 / 2882964 • **Delhi** : Ph. 6467228 / 6217392 • **Calcutta** : Ph. 2429435 / 2429550
- **Bangalore** : Ph. 2272954 / 2272955 • **Madras** : Ph. 8283804 / 8281256 • **Udaipur** : Ph. 521700
- **Hyderabad** : Ph. 815185 • **Lucknow** : Ph. 235812 • **Nagpur** : Ph. 523187 / 526761 • **Bhopal** : Ph. 571541
- **Panaji** : Ph. 223712 • **Pune** : Ph. 455729 / 454449 • **Ahmedabad** : Ph. 429170

IMPULSE/995

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

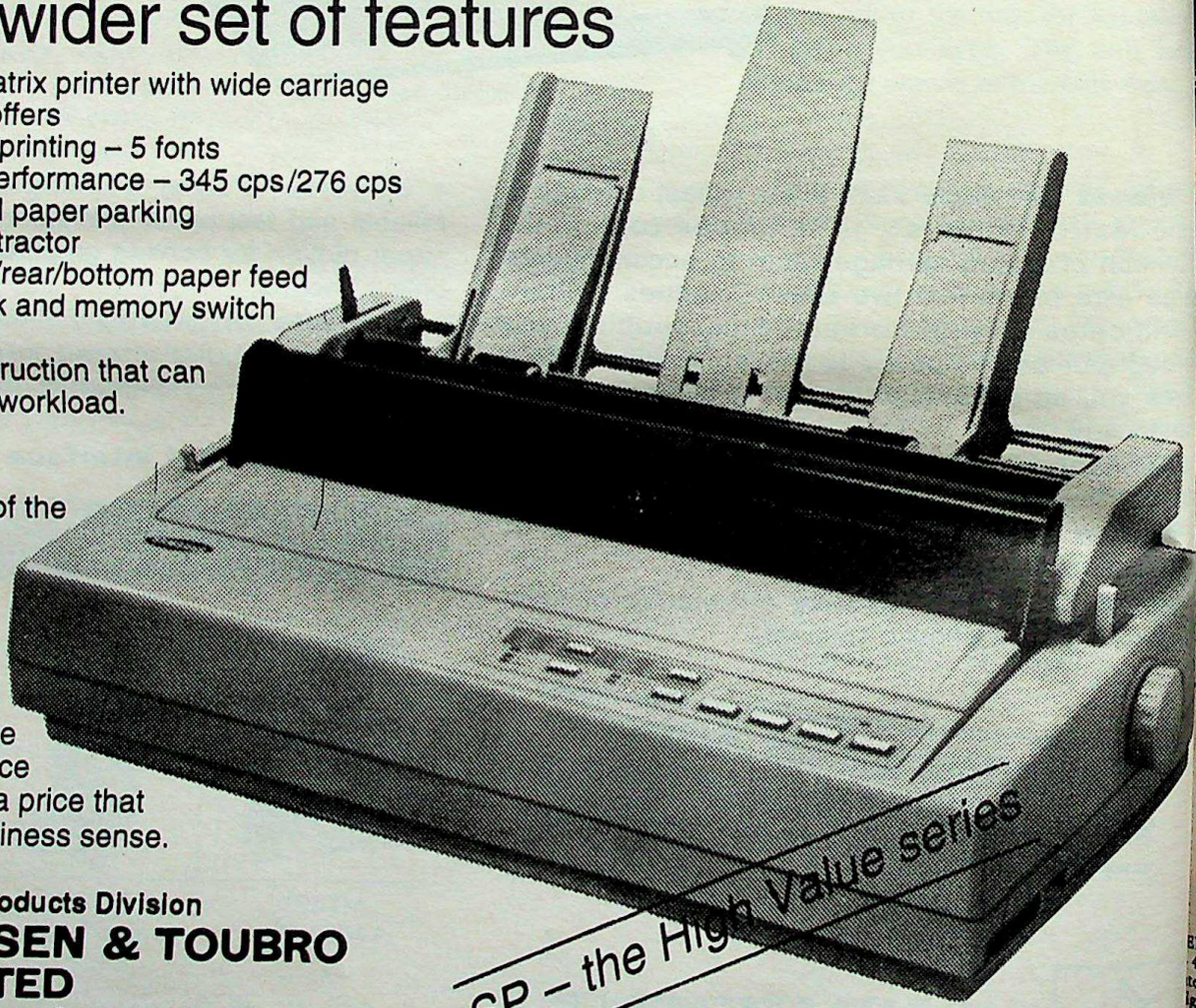
Introducing...

The SAMSUNG SP 2421

A wide-carriage printer with a wider set of features

A 24-pin dot matrix printer with wide carriage capability that offers

- Letter quality printing – 5 fonts
- High speed performance – 345 cps/276 cps
- Auto-load and paper parking
- Configurable tractor
- Choice of top/rear/bottom paper feed
- Font/pitch lock and memory switch settings
- Rugged construction that can handle a real workload. Reliably.



Designed by Samsung, one of the world's largest companies, the SP 2421 combines durability and value that make it a multi-purpose printer for all office applications. At a price that makes good business sense.

SP – the High Value series

Data Products Division
LARSEN & TOUBRO LIMITED
Venkataramana Centre, 563, Anna Salai,
Teynampet, Madras 600 018 Tel: 4343309

P.O. Box 7025, New Delhi 110 002. Tel. 3731873
P.O. Box 619, Calcutta 700 001. Tel. 2422301/5
Post Bag 5247, Madras 600 002. Tel. 8522141
P.O. Box 8119, Bombay 400 051. Tel. 6401232

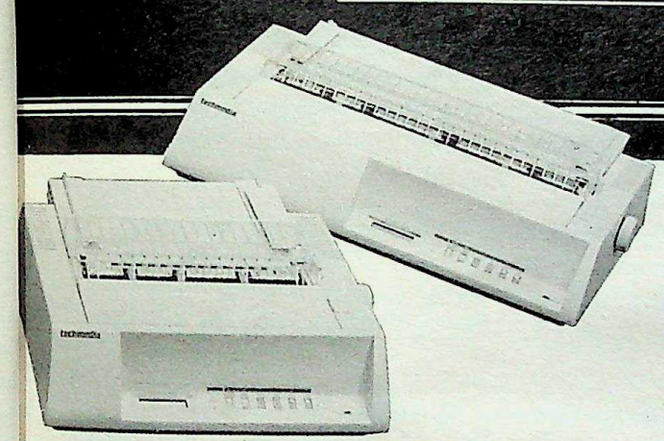
Introductory offer
Rs. 18,500/- + local taxes

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

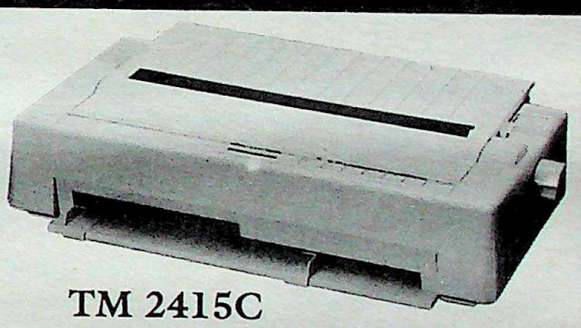
There are times when even SANDUR printers stop working.

Power Cuts, Network System is down, All PCs in your office are attacked by virus, You run out of printing stationery, Entire EDP staff are on leave , You try printing without connecting your printer cable.....



TM 2411S/TM2416S

- dvanced 24 pin, 80 Col, 240 Cps/24 pin 136 Col, 240 Cps.
- CD panel, 3 programmable menu selections.
- ser friendly front panel operations, no confusing DIP switches.
- Built-in fonts, 12 pitch selections.
- n line selection of font & pitch.
- hermistor controlled print head.
- aper parking/zero inch tearoff/quite mode.
- uilt-in serial interface.



TM 2415C

- 24 pin, 136 col, 240 Cps Colour Printer.
- 4 Paper paths (Front, Bottom, Continous & Cut sheet).
- User friendly front panel operations, no confusing DIP switches.
- 6 Built-in fonts, 12 pitch selections.
- On line selection of font & pitch.
- Paper parking/zero inch tearoff/quite mode.
- Built-in serial interface.
- EPSON compatible, low priced, longer life colour ribbon.

SANDUR ELECTRONICS

A Division of The Sandur Manganese & Iron Ores Limited

86/B, Industrial Suburb, II Stage, Yeshwantpur, Bangalore-560 022. Phone: 3376679, 3379981, 3372268. Fax: 080-3378130.

ERS: **Aligarh:** Micro Computers - 602289. **Ahmedabad:** Shivam Computer Pvt. Ltd. - 400914, 409161. Orbit Circuits - 466156. **Ambala:** Data Byte (India) - 25540. Infotech Computer - 440746. **Bangalore:** Computronix Inc- 2265903, 2202911, Chinmaya Computer Centre - 3345063, Figaro Micro Systems - 5576808. **Baroda:** PC Link System - 321614. **Bijapur:** World ters - 23793. **Bhopal:** Digital Maintenance Services - 67839. **Cannanore:** Microsoft Consultants - 60883, 68630. **Bombay:** Lanmark Systems & Services - 3851416, 3893485. garh: Ideal Computer Care - 607793. **Cochin:** Data Hard Systems - 373444. **Coimbatore:** Caps - 449161. **Cuddalore:** Sigmatech Electronics - 20634. **Davanagere:** Infotech Computer - 28613. **Dehradun:** Rans Electronics - 626039. **Erode:** Perfect Technologies - 72024. **Gulbarga:** Srirang Computers - 25787. **Gujarat:** Tornado Sales & Service - 22294. **Gwalior:** Marquis ters - 326489. **Hassan:** Interface Integrated Techonologies - 69688. **Hospet:** Computer Embassy - 57609. **Hubli:** Dinakar Marketing Services - 367464. **Hyderabad:** Insight ters - 290393. **Indore:** Rainbow Computers - 532352. **Jabalpur:** Imprint Computers - 316359, 315359. **Jaipur:** Bits & Bytes - 362627, 366862. **Jodhpur:** Shagun Electronics - 38017. rs: Micro Soft Acc (P) Ltd. - 542679, 543933. **Karwar:** Intec Computers - 26788. **Kottayam:** ASCI Systems & Communications Inc. - 62894. **K.G.F.:** SSICT - 55185. **Kochi:** Computer 355422, 365636. **Madras:** Sigmatech Electronics - 4345733, Ramakrishna Computech Pvt. Ltd. - 4943930, 4934172. **Madurai:** C Plus - 540995. **Mangalore:** C Net Systems - 428685. a: Carotronics - 722468, 722637. **Mayiladuythurai:** Base Compters - 22355. **Mysore:** R E I Enterprise - 22271. **Nagpur:** Systems Diagnostic - 47131. **New Delhi:** Computer - 3329745, 3350979, CompuServe - 6432124, 6463799. **Pondicherry:** Sigmatech Electronics - 30548. **Rai Bareilly:** Pragya Computer - 803264. **Rajahmundry:** Micromatiks - 71702. Star Lite Automations - 448944. **Shimoga:** Reliance Data Systems - 221124. **Secundrabad:** CTE Systems - 831744. **Surat:** Shree Rang Computer - 426527, Binary System - 426527. wur: Star Base Computers - 20947. **Trichy:** Riveraa Computers - 432118. **Tumkur:** Computer Clinic - 74654. **Udaipur:** Vrdhman Computers - 525966. **Vishakapatnam:** Gayathri uters & Communications - 546804. **Vijayawada:** Mist Computers - 4477620.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

विद्याविनियोगाद्विकासः

IIM

AHMEDABAD

INDIAN INSTITUTE OF MANAGEMENT
AHMEDABAD

offers the following programmes

E-MAIL, VALUE-ADDED SERVICES ON COMPUTER NETWORKS, AND INTERNET TECHNOLOGY

January 29 - February 3, 1996

For

IT Managers; systems managers; other systems people concerned with selection, commissioning, and providing support for IT services within an organization; technology investigators; MIS/EDP professionals; general managers and power users with interest in high-end technologies; managers engaged in design and implementation of E-mail and other value-added services on computer networks.

Content

Overview of Networking Technologies; Advantages of E-mail and Value-added Services on the Networks; Architecture of E-mail Systems; Design and E-mail Environments; Technology and Choices; Commercially Available E-mail Services; Introducing and Implementing Corporate Wide E-mail Culture; INET & VSNL Services; EDI; Internet Technology and Resource Discovery Tools; FTP, USENET Bulletin Boards, and List Servers; WWW, Gopher, Archie, Mosaic

Last date for receiving nominations: January 15, 1996

MULTIMEDIA TECHNOLOGY

February 26 - 29, 1996

For

IT Managers; systems managers and professionals concerned with choice and use of IT in organizations; power users; technology investigators; managers in areas like marketing, advertising and corporate presentations; and those with interest in use of high end technologies for their job functions. Some prior exposure to PC technology will be necessary.

Content

Introduction to Multimedia Technology; CD ROM Technology; Sound Cards and Related Utilities; Potential Applications of Multimedia Technology; Presentation Support; Commercially Available Products

Last date for receiving nominations: February 5, 1996

For brochures and nomination forms, please write to :

Manager (MDA), Indian Institute of Management, Vastrapur, Ahmedabad 380 015

Phone : 079 - 467825 ■ Fax : 079 - 6427896 ■ Telex 121 - 6351 IIMA IN ■ Email : mdp@mdplan.iimahd.ernet.in

LINTAS iima 34

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

COOL SITES On The Web

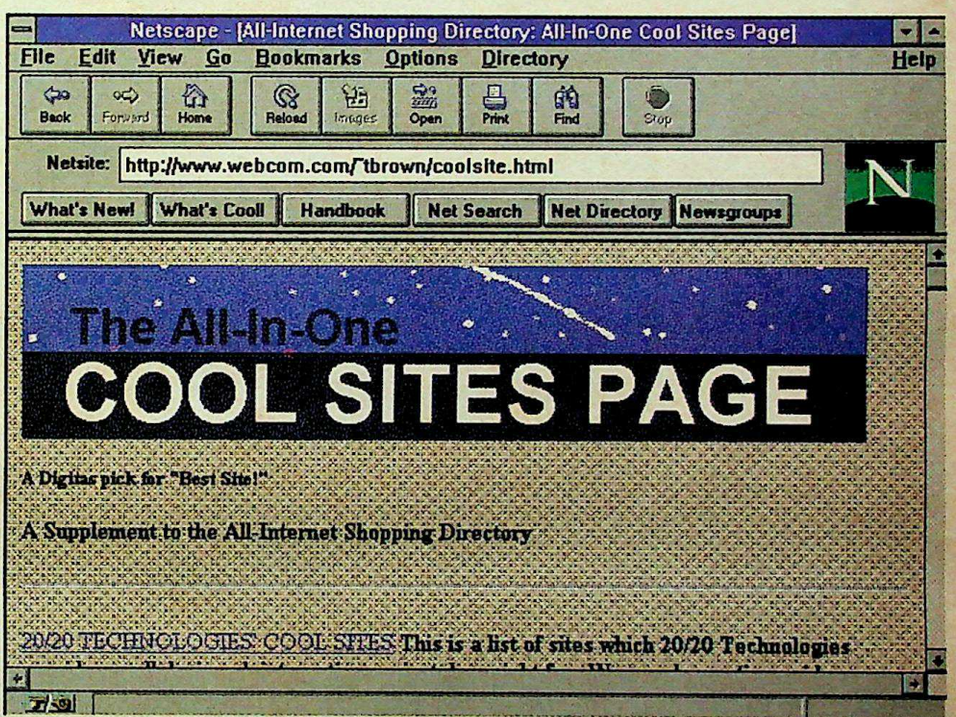
Weird, wacky, full of surprises: the Web is hot property. Our reviewer tries to find out what's cool out there

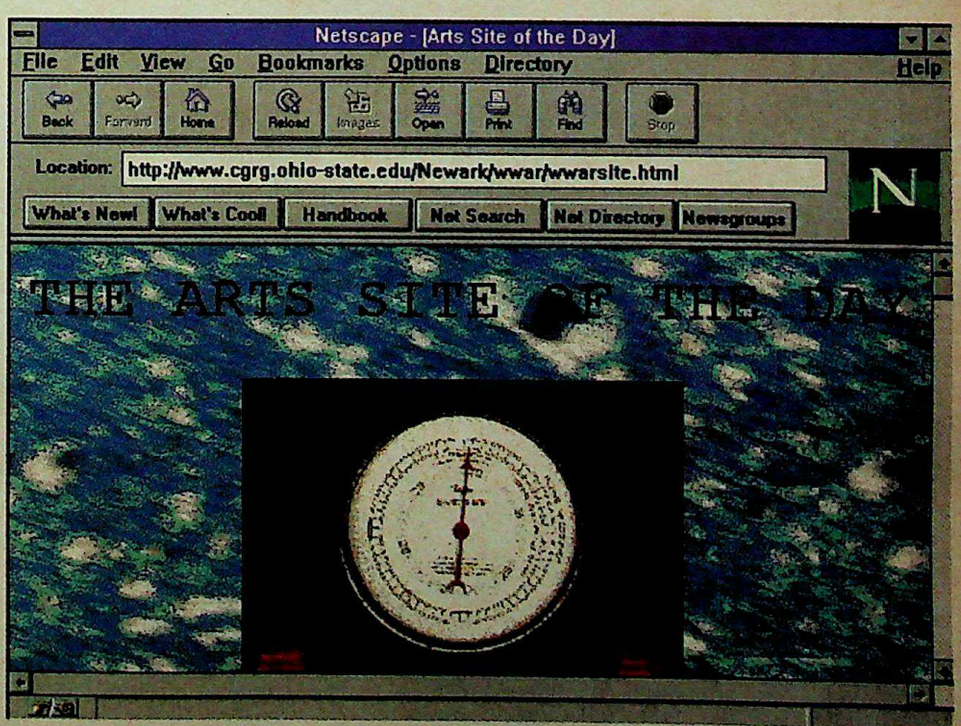
Cool Site of the Day, namite Site of the Nite... hot links to cool es, hot lists of cool links... One might well nder if there's anything on the Web that 't, in fact, quite completely cool. There are l sites that rate raters of cool sites, and n cooler sites that rate everybody else!

'Cool Sites' are a browser's delight. If you ve nothing specific in mind, plenty of time d are up for some free floating net surfing, l sites are just the thing for you. There are l sites of the day, week, month, year, vious and award winning cool sites, and ains of cool links to go through—in topilot, if you prefer.

To really enjoy these cool sites, and to surf them in a leisurely way with clicks of your mouse, you really need a TCP/IP Internet account. VSNL charges you Rs 15,000 for one of these, for 250 hours. You can get by with a Rs 5,000 shell account—but you'll then see only the text, not these graphics and pretty screens.

How do you find a cool site? You don't. It'll d you—like it or not. For one thing, the eb's search engines, such as Lycos or Yahoo, l give you link to many cool sites. And n, lots of non-cool sites will do much the me. Companies sponsor them and home ges link you to them. There are hundreds





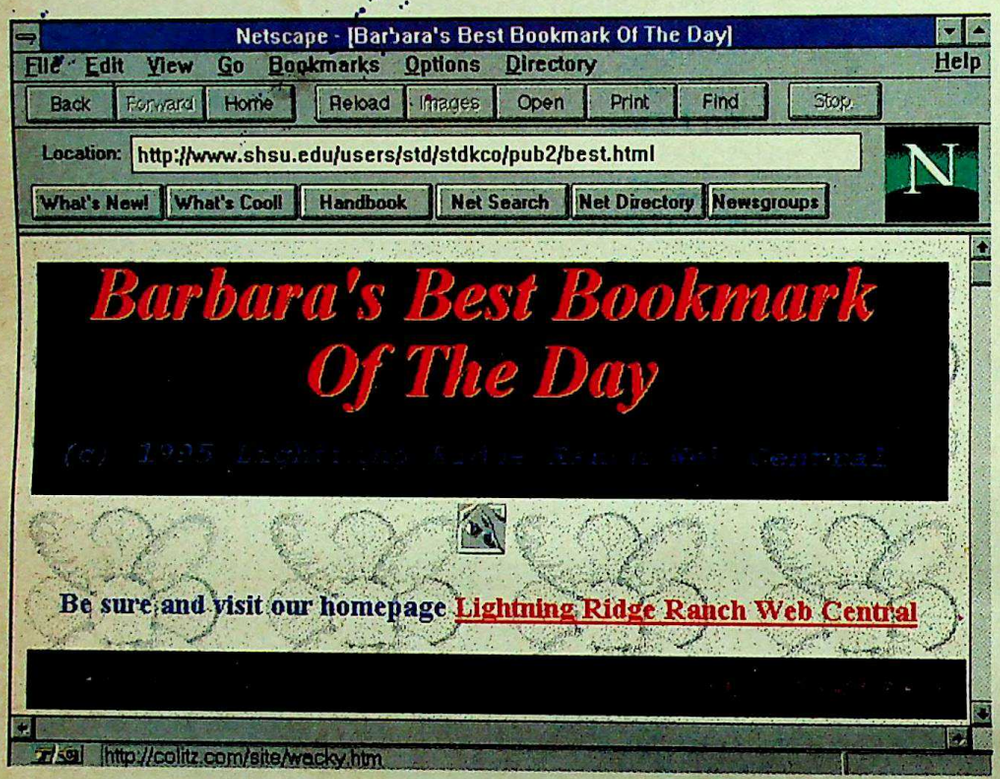
CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

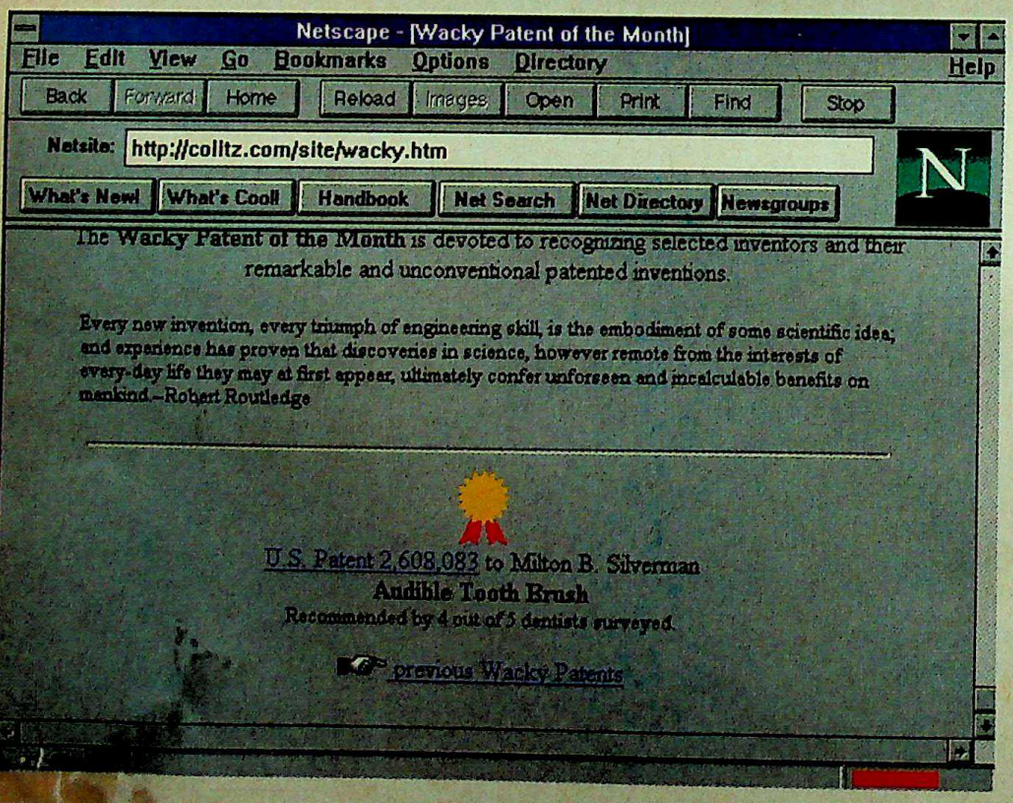
Digitized by Arya Samaj Foundation Chennai and eGangotri

of cool sites to bump into and you never know where you're going until you get there.

Having got there however, you may or may not find the site particularly cool. So who decides what's cool? Amazingly, anyone who puts his or her mind to it.

Take for instance, Barbara and her **Bookmark of the Day**: "With working a regular job, having a husband and three sons, piles of dirty dishes and clothes, cooking, cleaning, and any and everything else that comes up, I don't get much time on the computer. But I would like to share with everyone what I find interesting on the World Wide Web". And why not. Barbara's Bookmarks include an assorted mix of sites like Star Trek WWW, The Accidental Tourist, which is an interesting home page, Wacky Patents, Veggies Unite—a searchable vegetarian cookbook—and lots more.





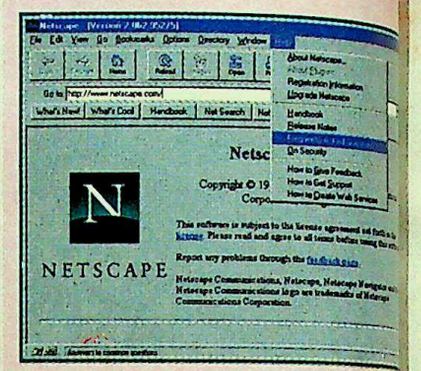
Cool URLs

Getting to the cool stuff

Cool Site of the Day http://cool.infi.net

Funky Site of the Day http://www.reality.com.com/cybstars

Dynamite Ste of Night http://www.vpm.com/tti/dsotn.html



A simple starting point for coolsite-surfing is NetScape itself—and its hotlists through the What's Cool button, frequently-asked questions list, and so on, most of which connect you to www.netscape.com and from there to other URLs.

Hotsite of the Nite http://www.euro.net/5thworld.hotnite/hotnite.html

Spider's Pick of the Day http://gagme.wwa.com/~~boba/pick.html

Mediocre Site of the Day http://minerva.cis.yale.edu/~~hardie/mediocre.html

Mirsky's Worst of the Web http://mirsky.turnpike.net/wotw/Worst.html

Yuckiest Internet Site http://www.nj.com/yucky

Bob Allison's **Kool Link** page[s] you to the Spider's Pick of the Day, sites like The Joke Board, Jo[e]'s Cosmic Horoscope, Drew's Scr[ip]t-Rama, a site featuring Ba[rbie] Modeling, or The Undergrad Informer Home Page, a news[paper]. Examples from **Gorski's Cool Site of the Day** include Art Comic, The Internet Users Consortium, Muc[h] Homepage, Rob's Multimedia La[b] The Dockingbay.

Cool Site of the Day, when I say the craze started, featu[res] different cool site every day and [keeps] it there for 24 hours. The site is se[lected] by Glenn Davis, Special Pro[jects] Coordinator at InfiNet, and is spon[sored]

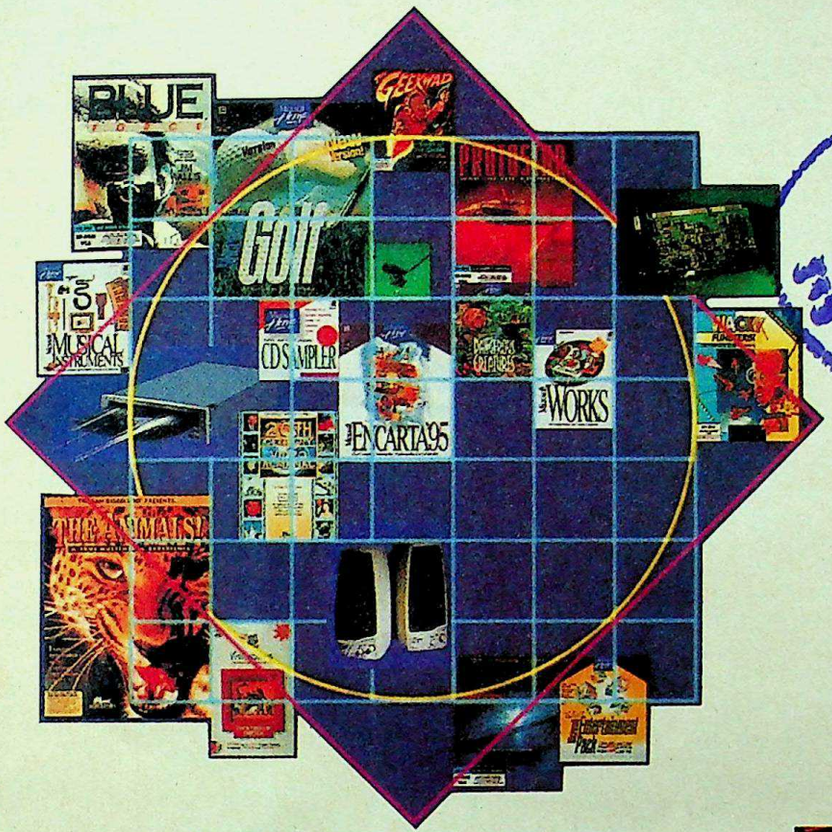
CC-0. In Public Domain. PCQUEST Archive Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MULTIWAVE INNOVATION

It's like moving past the time barrier.

PLUG -N- PLAY



COMMAND 3D

AUDIO WAVE

MOVIE WAVE

Multimedia Upgrade Kit

▪ Easy to use and install ▪ 16-bit Streo Sound card, (AW 16 PNP or AW 32 PNP details as below) ▪ Fast, Quadruple speed, Multisession, Auto - tray drive ▪ 24 watt, duo cone dynamic speakers head phoen & microphone included

MMAND 3D SOUND ENGINE*

ound Imager for Joystick.

wave's ulitmate in 3D sound technology that can grab and control. Dynamically control images generated in 3D sound field.

mmand 3D Sound Engine Module ❑ Manuals stick calibration and test Utility

PLUG-N-PLAY 16-BIT SOUND CARD

MODEL : AW16PNP

❑ Full Plug-N-Play and Windows 95 ready. ❑ 20-Voice, 72 operator, OPL3 compatibale ESFM Musice Synthesizer. ❑ Built-in selectable 6V or 9V DC supply for any external active speakers.

MODEL : AW32PNP

❑ Full Plug-N-Play and Windows 95 ready. ❑ Wave-Table synthesizer with 32-voice, 128 instrument set & 51 Drum Set ❑ Spatializer 3D Surround Sound for Today's Hottest Games ❑ 20-Voice, 72 operator, OPL3 compatibale ESFM Musice Synthesizer.

MOVIE WAVE INTER ACTIVE PLUS (MPEG)

Irresistible Features !

❑ Quality MPEG Playback wih built-in Audio/Video Synchronization. ❑ Full- motion video (AVI) capture and playback on the same board. ❑ The built-in real-time 3D sound processor lets you experience movies and MPEG games in surround sound with only 2 speakers ❑ Watch TV and Cable channels on ou PC as well as TV tuner.

ership enquiries cited Nationwide

COMPUAGE ELECTRONICS PVT. LTD.

Head Office **Bombay :** 3, Dhuru Bldg., 329, Vithalbhai Patel Road, Off Lamington Road, Bombay 400 004. Ph. 385 1573 / 387 3436 Fax.: 387 7836 • *Branch Office* **Bangalore :** 558 8241 / 558 8901 • Fax : 559 6087

Samkit/CEPL/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

by c|net. To begin with, Glenn Davis selected his cool site by surfing around. But with the Web growing the way it did, this soon became impossible. He now selects the cool site from among those submitted for consideration and from newsgroups. Not realising that Cool Site of the Day would become so popular, Davis is amazed to find the number of visitors to CSotD growing from 300 a day to 30,000 a day. There's also the Categorically Cool—a new link every business day with each category changing weekly.

In an **All-In-One Cool Sites Page**, 20/20 Technologies has an awesome list of sites it considers cool—well-designed, interesting, or just downright fun. Top of their list is Amdahl's WWW Hot Sites for exploring "what's out there". There are lists of other cool including Arts Site of the Day, Ar Farces Picks, Australian Cool S the Day, and so on, selected fo education and entertainment graphic design and originality an for continuing revisit value.

Dynamite Site of the Nite is a cool rater. Selecting sites from sub URLs and from surfing, this site fe other sites that are "unique interesting, have snazzy gra and good layout, sites that ha been on other site-of-the-day sites that are low commercialization and don't just to sell or promote some and sites that aren't just a links to well-known pages eve has already visited, like Yah Playboy".

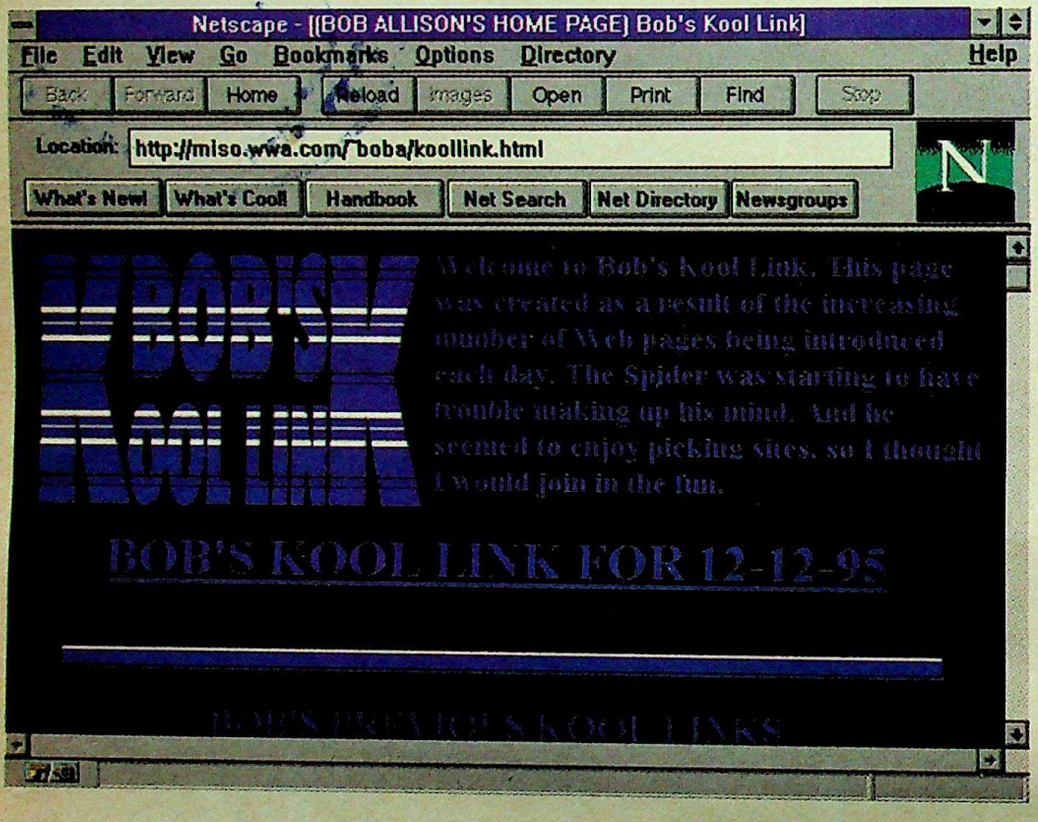
Cool sites can take you all the globe: the **Funky Site of th** could take you to football in Vir and the **Hotsite of the Nite**, ins by the Cool Site of the Day, coul you to the Greater Las Vegas C of Elvis! If you're looking for spe you'll find a Science Site of the Japanese Site of the Day, Arts the Day and so on, covering vir any topic.

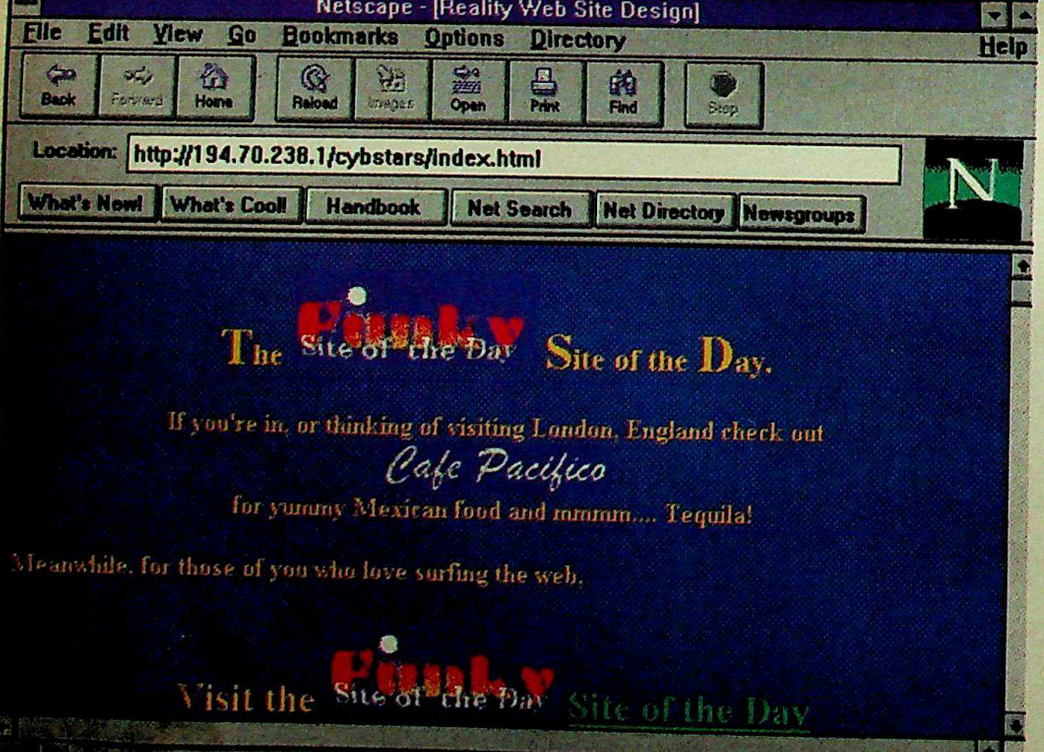
Cool sites don't look quite s unless you're visiting them w graphical browser. If you're Netscape's browser, you don't to look too far to find a cool sit **What's Cool** button bring Netscape's long list of inter sites, including CNN.

If you've had enough of cool cheer up. There are also keeping track of the worst Web!

These 'Ugh Sites' in Mirsky's Worst of the Web Yuckiest Site on the Inte Useless Pages and sites that to be the worst possible. A Me Site of the Day also picks sites the middle 98 percent eve neglects. And then, if you're of linking to different sites day, there's Gregory Falcon's Site of the Day, which promi be just as cool as yesterday's

Mala B
<mala.bhargava@giasdl01.vsnl.net
Delhi-based freelanc





CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

India's smallest UPS

A UPS for those who thought they would never buy one.

Nexus, India's smallest UPS has been recognised as the best quality new-generation UPS. Our customers have chosen Nexus as the best quality UPS in India. You could not expect anything less from Guard.

Nexus is a UPS System designed specifically for personal computers. Nexus provides comprehensive protection to your computer from power failures, voltage fluctuation, spikes, surges and line noise.

Designed with your desk in mind

Only 4 inches wide and 6 inches high Nexus, India's smallest UPS can sit right next to your PC without cluttering your workspace. Advanced technology has allowed us to shrink the UPS to this unbelievably compact size.

Easy to install

Unlike other UPS systems, there is no complicated installation procedure. Simply unpack Nexus and plug in. All the controls and indicators are on a smart panel in the front.

Nexus provides greater reliability and more features at a lower cost. With Nexus every computer can afford full UPS protection.

Available in five models to support and safeguard all computers from a single PC to a large LAN fileserver.

What are you waiting for. Call, write or fax us for your very own Nexus today.

- Wide input range of 165-275 VAC.
- Unrivalled 92% efficiency.
- Reliable MOSFET inverter.
- Electronic overload protection — short-circuit proof.
- Phased loop locked to AC mains for synchronised transfers.
- Built in maintenance-free batteries.
- Built-in spike suppressor and voltage regulator.
- Feather-touch controls.
- Range of five models.

Complete range of On-line and Offline UPS Systems from 100VA to 5 KVA

Immagination/GE/A895

Manufactured by:

GUARD

ELECTRONIC SYSTEMS PVT. LTD.

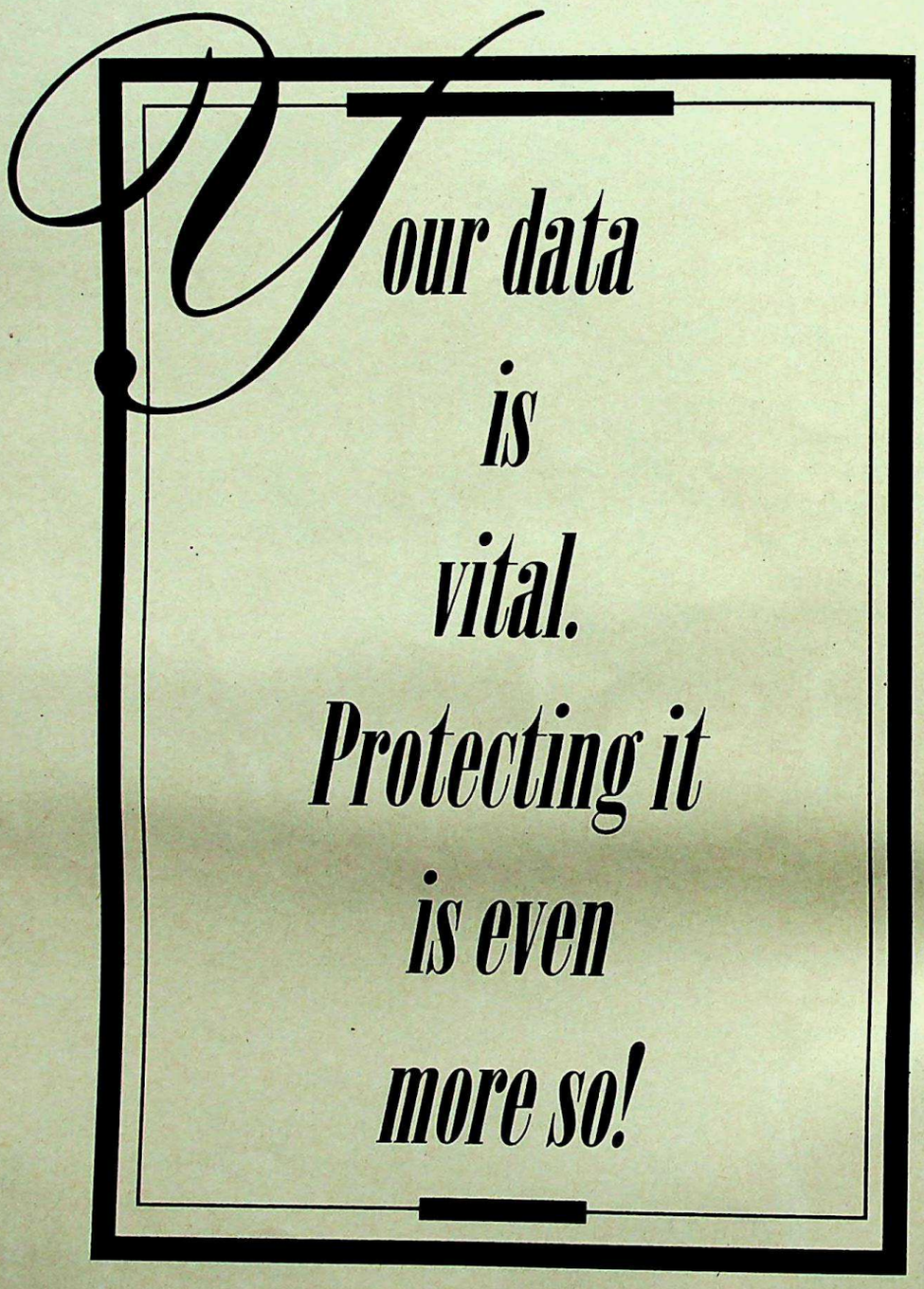
S-60 F.I.E.E., OKHLA INDUSTRIAL AREA, PHASE- II, NEW DELHI - 110 020, INDIA
TELEPHONE: 684 9337, 684 9338, 684 9341, FAX: 91-11-647 2182

We are looking for dealers in unrepresented areas

OFFICES: AKOLA: TEL: 28272; **CHANDIGARH:** TEL: 537483, 608956; **DEHRADUN:** TEL: 29217; **GUWAHATI:** TEL: 40761; **GWALIOR:** TEL: 326708; **IMPHAL:** TEL: 220296, 220795; **JALANDHAR:** 251363; **JHANSI:** TEL: 440950; **KANPUR:** TEL: 542679, 543933; **LUDHIANA:** TEL: 663930, 406293; **MADRAS:** TEL: 8262946, 8521141; **MORADABAD:** TEL: 24875, 28832; **MUSSOORIE:** TEL: **MUZAFFARNAGAR:** TEL: 409448; **PATNA:** TEL: 262545, 262654; **RANCHI:** TEL: 203861, 203864; **SILIGURI:** TEL: 20814, 23660; **SIMLA:** TEL: 3156; **SOLAN:** TEL: 4130; **SURAT:** TEL: 627854; **UR:** TEL: 20913; **VARANASI:** TEL: 332889;

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

RED ALERT
COMPUTER VIRUS DEFENCE SYSTEM

Here is where we come in

N & N Systems and Software, a technically advanced company, focussing on Anti-Virus & Management Solutions, is perhaps the only true Anti-Virus Solutions and Strategy provider in the country.

With almost 200 viruses being produced a month across the world, Anti-Virus protection is no longer an aspect that concerned Management or EDP/MIS Professionals can afford to ignore.

Mr. Neville Bulsara, India's acknowledged leading Anti-Virus researcher and author of the much acclaimed ***RED ALERT*** *puts it in perspective when he says "Anti-Virus Defence is not just about Anti-Virus Software it's about a complete Anti-Virus Strategy".*

Out Award winning product Red Alert, India's leading Anti- Virus Software; The Internationally acclaimed DR. SOLOMON'S range of products; A sound management team and some of the most knowledgeable Professionals in the field, make us the Anti-Virus company of choice for corporate giants such as Coke, Pepsi, The Tata Group, Lloyds Group, ITC Group etc. With a country-wide Distribution and Dealership network, an impressive product range and a wealth of experience in this industry, N & N Systems and Software is the # 1 Anti-Virus Solutions and Strategy Provider in India today.

VISIT US AT
PC EXPO
BOMBAY
3-6 JAN. '96
BANGLORE
18- 20 JAN. '96

N & N
Systems & Software

NOT JUST ANTI-VIRUS SOFTWARE - ANTI-VIRUS STRATEGIES.

#105, 1st Floor, Om Chambers, 123, August Kranti Marg,
Kemps Corner, Bombay 36. Tel : 368 05 12/17/18. Fax : 368 05 13.

A NEVILLE BULSARA AND NADIR KARANJIA VENTURE !

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

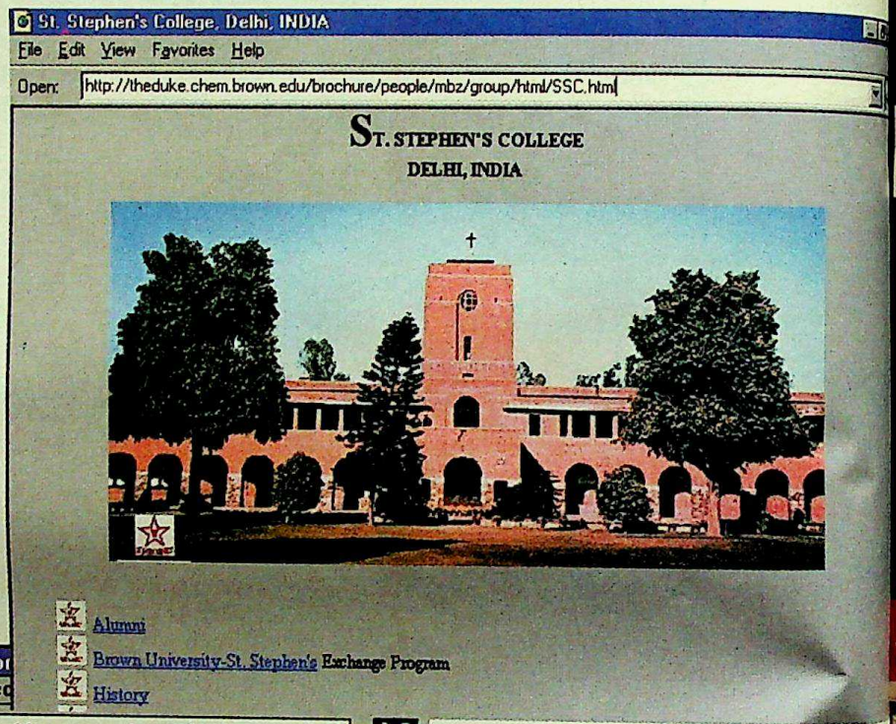
Digitized by Arya Samaj Foundation Chennai and eGangotri

India Internet

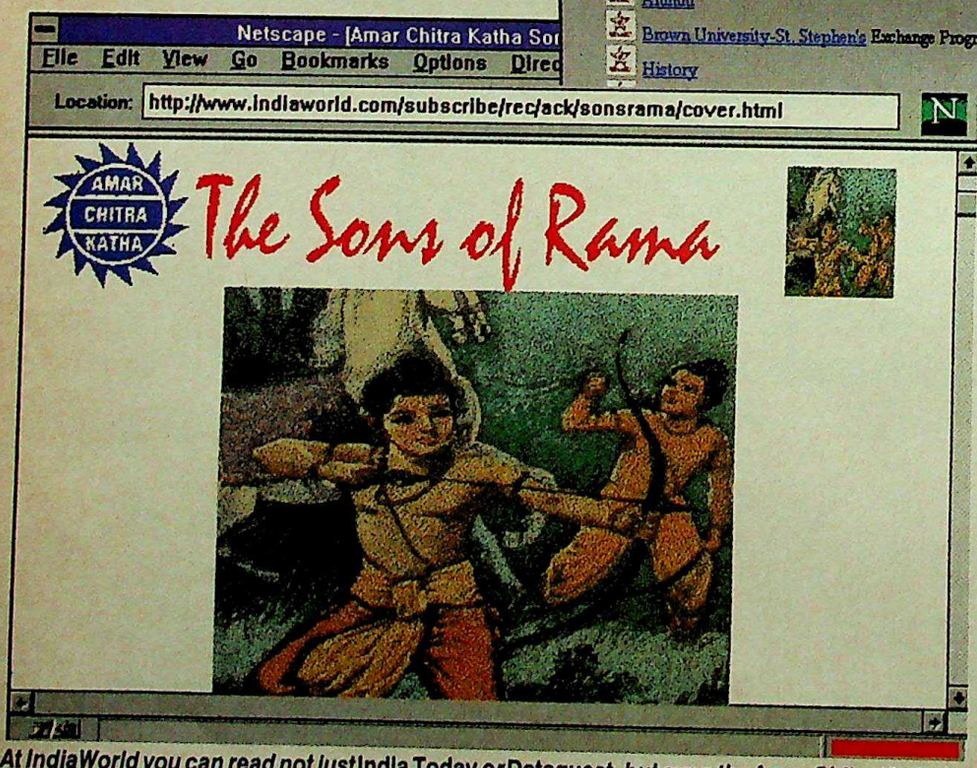
Telugu songs, Mirabai, Tagore,* The Hindu—*they're all on the Web. Here's a look at India on the Internet

On the World Wide Web, India is hot. Indian sites and home pages are popping up all over the place: Bollywood belles to World Bank projects in India, from BSE dealings to Akbar and Birbal...it's there on the Net.

A search for India on Lycos brings up sites that give you news, information on travel, culture, art, education, things typically Indian, and of course, rapidly growing Indian business opportunities on the Internet. Some sites are virtual electronic magazines, others are references, directories, lists and info tion about services, technology voluntary organization sites and s Most sites offer links to other s



Close to 100 Indian colleges have their own home pages on the Web. So do several sch including DPS, La Martiniere Calcutta, Sard Patel Vidyalaya, Delhi, Mayo College, and s in South India.



At IndiaWorld you can read not just India Today *or* Dataquest, *but even the* Amar Chitra Katha!

so from one site you'll be able t through plenty more. If you're lo for something specific, use search such as Lycos or Yahoo. If you're surfing—pick almost any starting and see where the tide takes you.

You might find it the easiest to with Yahoo's Regional/Countri dia section. You will find an alph cal list of cities and categories su Business, Culture and Media, which you have search options. are also links to other sites from here. Yahoo's list ends with a t collection of India related newsgr

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

UN-INTERRUPTIBLE POWER SUPPLIES

Digitized by Arya Samaj Foundation Chennai and eGangotri

?

Is It A Good UPS ?

CHECK IT OUT...

BUY the BEST!

The Comparative Test

The No.1 Competitor		Synergy SMART POWER
180 - 210V	Battery Mode Regulation	224 -229V
>10 ms	Transfer Time	4 ms
☑	Line Interactive	☑
☒	50 Khz PWM	☑
☒	MOSFET based switching	☑
☒	Load & Battery Level Indicators	☑
☒	Communications & Software (Add-on)	☑
☑	Built - in AVR	☑

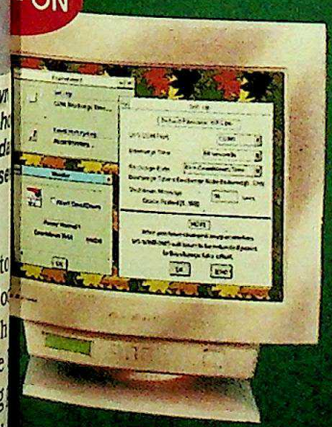
Typical for Load test at 700W

from the Largest OEM Supplier wtih thousands of Installations

POWER LACKOUTS

Models : 625 & 1250 VA

- ON



Dealer Enquiries Welcome

Also Available :
ONLINE : 0.5 to 15 KVA

INTELLIGENT COMMUNICATIONS for ON-Screen backup status

The Next Generation

Manufactured by :

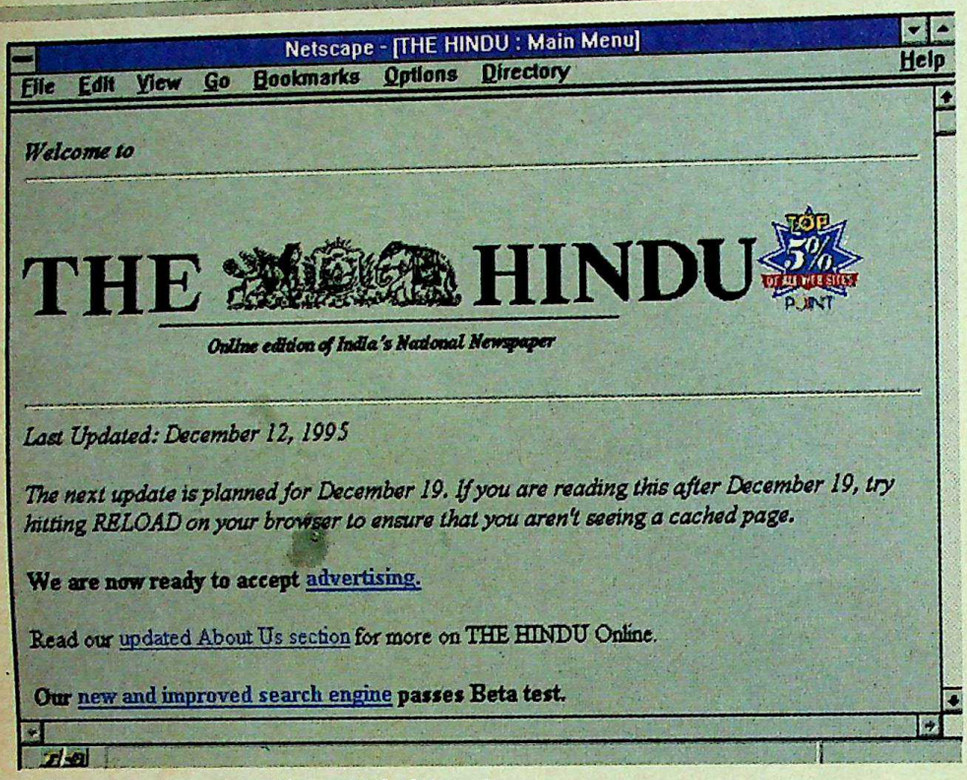
SYNERGY SYSTEMS

CB - 385 A , RING ROAD ,
NARAINA , NEW DELHI - 110 028.
Ph : 542 2278 ; Fax : 570 3574.
Fac : S - 102 , Badli Ind. Estate - I,
Delhi - 110 042. Ph : 729 3764.

Synergy SMART POWER

Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri



Indian newspapers are getting on to the Internet.

FAQs and an index of India links.

Another place to start is hotlists such as **Srinivas Padmanabhuni's** Hot List page (http://ugweb.cs.ualberta.ca/~~Srinivas/India.html) which has a collection of links to India sites and a listing of assorted topics such as Vedic Culture, Indian Classical Music, Karnataka Cuisine, FTP site of Indian Information, Hindi film stuff, Customs and Baggage Rules, and more. This page also has general information on searching the Web, some Fun Things on the Net which include sites like the Elvis Home Page, Interactive Games or SuperModels, and a list of employment, immigration and government related sites on the net.

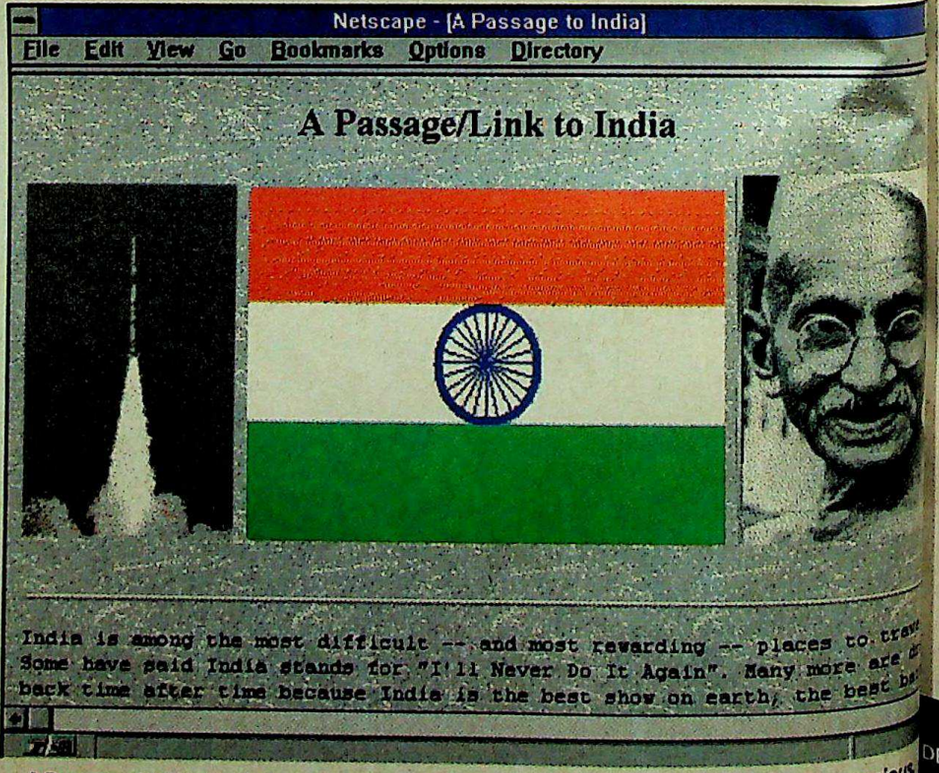
Raj's India List (http://www.cis.ohio-state.edu) is an information resource page for India. Greeting you with *Sare jahan se achchha*, this page has links to other sites, repositories and gopher sites and has cultural, geographical and miscellaneous facts about India. You'll also find links to NGOs, student and community organizations, commercial links, NRI and tourism information.

Among the best known India sites is **IndiaWorld** in San Diego, California, probably the first commercial electronic news and information service on India, from Bombay-based Ravi Database. Subscription is about Rs 700 for one year, and is aimed at the non-resident India; there are free pages as well. At IndiaWorld you can check out the cricket scores, Busybee, Laxman's You Said It, or the news headlines. You can read The Hindu and several Indian magazines online. There are separate sections on news and information, business, finance and technology, the arts, books and entertainment and advertising. IndiaWorld plans to add a matrimonals section, an expanded opportunities section, an art gallery buying arts and handicrafts and s more money and investment matter its menu.

The **Asian Studies—India** page, of the WWW Virtual Library (http www.w3.org) has been nominated Best of 1995: Social Studies, Huma ties and Asian Pacific Studies. T page has a wonderfully organized lis links on a range of India topics, f general information and history, to ages and maps, business, art, cult religion, nature and environme weather and climate, people, poe food, festivals—and all things Ind There are links to cities, distri newsgroups and some random lin

INDOLink (http://www.genius. is another electronic link to Indi contains news and analysis, a law rum, money talk, health and fitn film and book reviews, humor and pes. There's a Global Services Direc with information on different ser from mail order flowers to Tamil f It also has a section on matters s tual—including a horoscope and c selling service.

IndiaNet (http:/www.indianet.c also offers a menu with news st business, money and investment in mation, immigration data, enter ment, education and other data.



A Passage Link to India features some serious stuff along with some that's not so serious.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

In the world of Client/Server promises

Oracle delivers.

Proof that you can.

ANNOUNCING THE ORACLE CLIENT/SERVER FORUM

A unique half day seminar, where the best IT companies - Oracle, Compaq, Novell and Intel, will join forces to deliver to you the full promise of Client/Server technology.

Also discover Oracle's high performance, scalable, Workgroup/2000 products. Complete, end-to-end, application development solutions with easy-to-use Databases, Middleware and Tools.

Oracle Workgroup 2000

Proof that you can.

See live demonstration of Oracle Workgroup/2000 products designed for complete integration. Oracle Workgroup/2000 includes Oracle Power Objects, Personal Oracle7, Oracle7 Workgroup Server, Oracle Mobile Agents and Oracle Objects for OLE.

Date of Seminar: Bombay: January 9, 1996.
Bangalore: January 11, 1996. New Delhi: January 16, 1996.
Madras: January 19, 1996. Calcutta: January 24, 1996.

ORACLE®

COMPAQ intel NOVELL

Demand to see the proof.

ENTRY BY PRIOR REGISTRATION ONLY. CONTACT,
DELHI: Ankush Patel Ph: 6462625/34/41 Fax: 6427653/6467923. BOMBAY: K.S.Venkatraman Ph: 2832601/4151/1550 Fax: 2853005.
CALCUTTA: Ashutosh Sarkar Ph: 407450 Fax: 404114. BANGALORE: C.Sunil Ph: 5593930 Fax: 5593932.
MADRAS: Sudhir Tewari Ph: 8279186/8275191 Fax: 8257258.

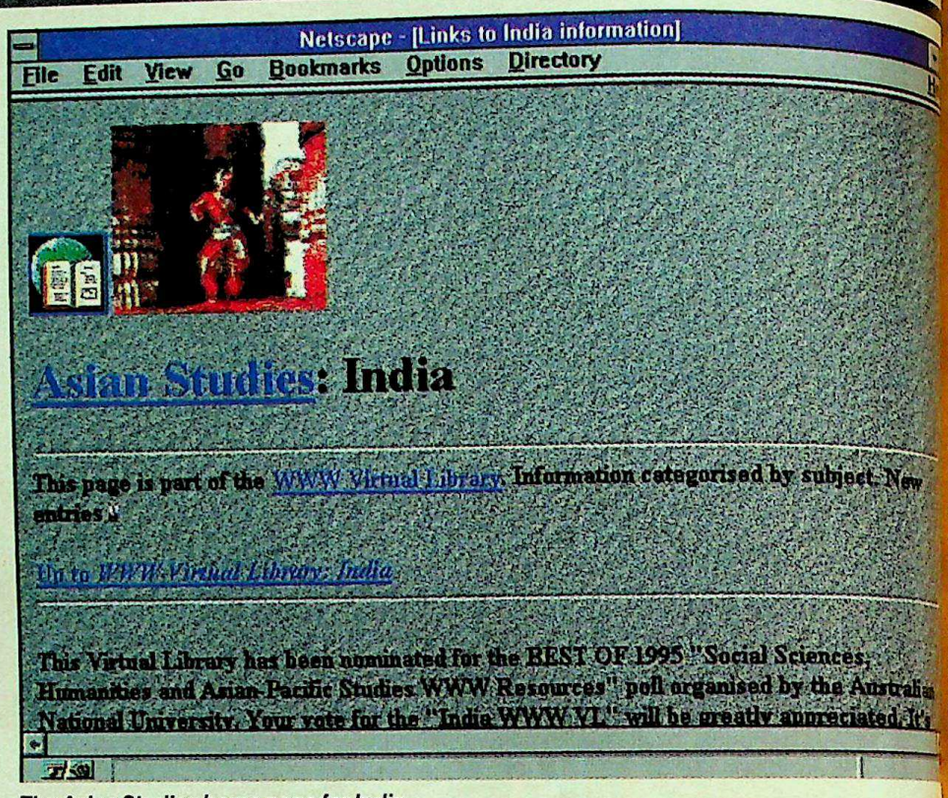
Digitized by Arya Samaj Foundation Chennai and eGangotri

Information on India can also be found at **SunSite**, Japan (http://sunsite.sut.ac.jp/asia/india/jitnet/india) where there are links to government, research, and educational agencies. There is information on business and economy, general information on India and links for Technology Information including a Technology Flash from India.

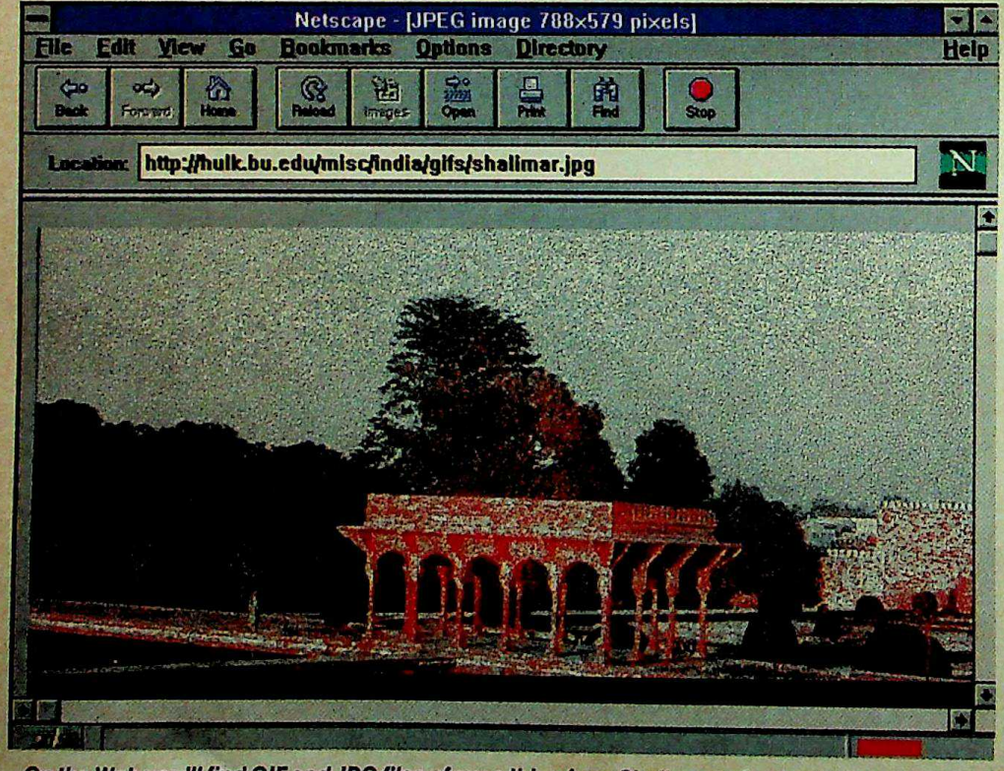
There are quite a few Home Pages being maintained on India. A Passage Link to India, apart from general information on India, has links to 'devotional sites' and features 'serious stuff'. But it also has some of the not-so-serious, with movies and songs. **The India Home Page**, maintained by Dinesh Venkatesh (http://hulk.bu.edu) has an index of India information with topics ranging across wildlife, sounds and images, recipes, research in India, social services, and more. ***Bharat Ek Nazar Mein*** (http://www.ntu.ac.sg) is a neatly organized site in Singapore with a wide span of information—plenty of news, a film section with a Desi Dance Page, a Picture Palace for movies, a Star Gallery of film actors and actresses, and archives of film songs. There's a photography section, an Education Weblink to schools, colleges and universities, and links to Internet Conferences. This page also links you to IRC India. **Mahesh's Home Page of India** (http://jaguar.net.com/~mahesh) has art online, banks, books and magazines, CD-ROMs about India, photo journalism from Swapan Parekh, links to Indian city sites, Internet sites in India and links to many Indian news and commercial sites such as India Online, India Network, Business India, IndoLink, the AT&T India Homepage, Info India, Web India and others. From this site you can also link to the **Bhagwat Gita Home Page**, an **Islam Home Page**, to Shirdi Baba and Sathya Sai Baba and find which American schools offer India lated courses. There are also links Software Technology Parks, includ those of Hyderabad and Bangalore

View from the Ground is In cyberspace page (http://ece.iisc net.in) maintained by Atul Chitnis Kishore Bhargava. This is a nice p to start for those who are new to online world, and includes articles PC Quests's COMversations a shareware library. **Indiagate** (ht www.indiagate.com) is a resource on Indian BBSes, maintained by tus sysops Alok and Anjali Sinha. ans in cyberspace can also put up personal web pages here. There some commercial pages and info tion for tourists.

The list of links is massive, and list is neither complete nor in any ticular order. Comprehensive ind of links can be found online. Ma the sites and home pages menti here are still "under construction". they're at it, they're also getting s specialized, with a Tabla Home Pa Bhangra Page and other specifics being available. The coming m should see an absolute wealth of mation, useful to Indians in Ind those abroad.



The Asian Studies home page for India.



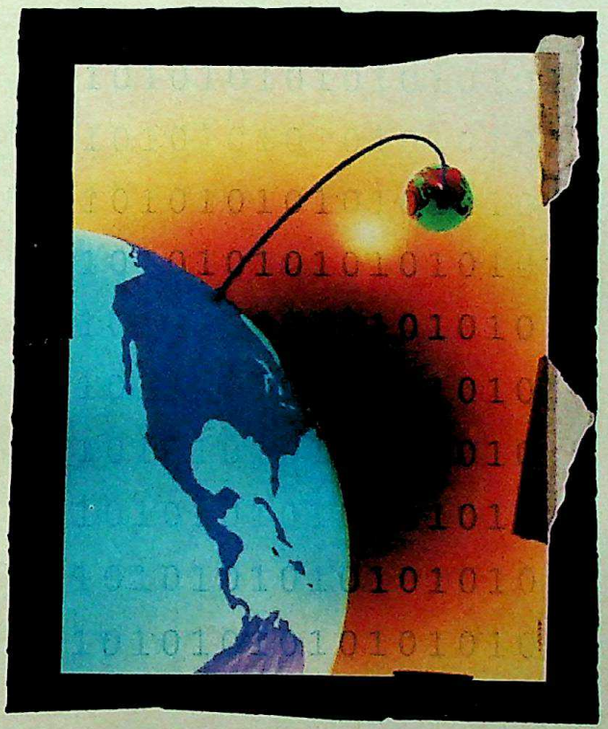
On the Web you'll find GIF and JPG files of everything from Shalimar to Sushmita Sen.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

FREEDOM TO DEVELOP
CLIENT/ SERVER APPLICATIONS
ON YOUR PC.

WITH TOTAL SCALABILITY
AND TOTAL PORTABILITY.



With Personal Oracle7, for the first time
you can develop client/server applications on your PC which are
TOTALLY PORTABLE
(to any of the 90+ platforms supported by Oracle7)
and
TOTALLY SCALABLE
(only Oracle offers a single database architecture
that spans from the laptop to the workgroup to the enterprise level).

Personal Oracle7 offers unmatched ease of use. And is a part of
the Oracle Workgroup/2000.

SPECIAL OFFER:
PERSONAL ORACLE7
WITH DEVELOPER/2000
FOR Rs. 99,500/-
VALID TILL
31ST JANUARY, 1996.

ORACLE®
Enabling the Information Age

Oracle Software India Pvt. Ltd., 705, International Trade Tower, Nehru Place-110019. Tel.: 6475286, 6475287, Fax: 6467923.
National distributor for Oracle Workgroup / 2000: Hexaware InfoSystems Ltd., Bombay, Tel: 8389831, Fax: 8389828. Bangalore,
Tel.: 2213334, Fax: 2274405. Delhi, Tel.: 6440644, Fax: 4632517. Calcutta, Tel.: 402842, Fax: 407705. Madras, Tel.: 456596, Fax: 4343206.

Clarion 4V0E05

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The SOHO PC

The market is crowded with Small Office/Home Office products. Here's a look at the requirements of a typical SOHO setup

Like all new technologies, SOHO has varied definitions. Our definition, and one that is widely recognized, is:

- A Small Office (SO) is one with 5..10 PCs
- A Home Office (HO) has a single PC located at home for official purposes
- A Home PC is for edutainment

Before buying a PC for SOHO use you must be clear about what you expect the PC to do for you. An SO PC needs to be reliable and with minimum frills. An HO PC can be similar, but some users may prefer to have a compact and aesthetically designed machine. A home PC which is mainly used for edutainment is a bit different—and in many cases needs to be better specified. So you need to look at not only multimedia capabilities but also the intellectual value of the bundled CDs. So, make sure that you get some useful software, along with the games. It's a good idea to buy a SOHO PC from a vendor who is specifically targeting the SOHO segment. This is because this vendor will be better equipped to handle the needs of a SOHO user in terms of support and servicing.

Once you have made a decision to buy a PC, you'll need to specify the configuration. Since PC technology and software resource requirements change fairly rapidly, buy a machine that will serve you well for a while. At a minimum, look for a 486 DX2/66 with 8 MB RAM, 540 MB IDE HDD, 14" SVGA color monitor with a graphics accelerator card, dual speed CD-ROM drive, 16-bit sound card, pointing device and Windows pre-loaded. However, this is a recommendation—you can make alterations to it. For example, if you need more processing power but don't need multimedia, then a Pentium system will make more sense than a sound card. But it's a good idea to buy a CD-ROM drive since most new software is shipping on it.

While the PC itself is quite sturdy and reliable, you still need to care for it. While installing the PC ensure that there is adequate space behind it so that the built-in fan can circulate freely and cool the insides. And no, you don't need an AC for the PC—but avoid rooms with air coolers since high humidity could cause problems.

And if your locality suffers from frequent black-outs it may be a good idea to buy a small UPS (300..400 VA capacity) so that you can safely save your work to the hard disk if the power fails.

The utility of the printer hardly needs elaboration, but the sheer variety of printers available in the market can be confusing. Don't buy a DMP unless you need to do a lot of printing. While personal laser printers are available in the region of Rs 30,000, buying an inkjet printer can be a practical option. Inkjets offer good quality printing and work noiselessly. If you need colour outputs you can opt for a color inkjet printer.

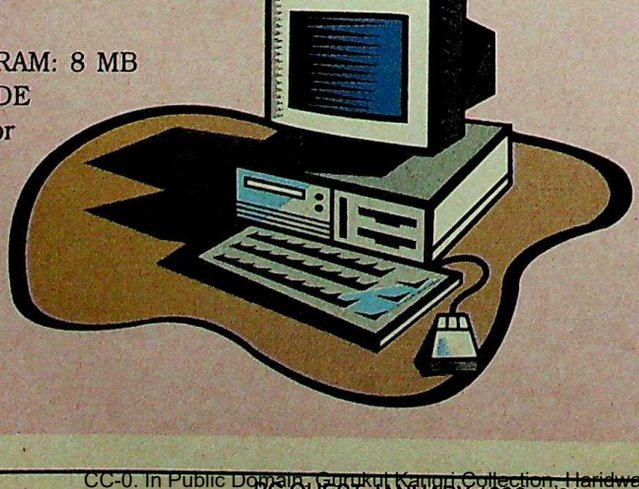
Since BBSes, E-mail providers and VSNL provide connectivity options to a variety of information sources, have

Buying Tips

- Consult as many vendors as possible and determine what they offer for what price. This will help you get the best value for money.
- Determine what financing options are available. Some vendors themselves offer financing schemes, while others will direct you to a financing company. Try to negotiate a declining balance installment payment terms—your overall costs will be less for the same interest rate.
- Try and get a customer list from the vendor, and call up some of them to verify the quality of the product and the service.
- Ensure that the vendor has an adequate and competent service team to handle your problems quickly and efficiently.

The SOHO PC

- CPU: 486 DX2/66
- RAM: 8 MB
- Hard Disk: 540 MB IDE
- Display: 14" SVGA color monitor with a graphics accelerator card
- CD-ROM drive: Dual speed drive
- Sound Card: 16-bit sound card
- Pointing device
- Windows pre-loaded.



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Maintaining Your PC

- Ensure that there is sufficient space behind the PC so that the fan can draw in air for cooling the machine.
- Place your PC in a dust-free place. While most modern PCs do not need special cooling, they still do not like dust.
- Don't subject the PC to shocks while it is being used.
- Ideally, the DMP should be on a separate table to avoid transmitting violent vibrations to the PC.
- Avoid placing floppies near EMI (Electro Magnetic Interference) sources—you can end up with corrupted data.
- Backup your data regularly. With most OSes shipping with fast, user friendly backup packages, there is really no excuse for not backing up your data.
- Use an anti virus utility regularly to keep your system free of viruses.

Issues Of Comfort

- Choose an ergonomically designed chair with hand rests. This will help you to avoid backaches and general discomfort. Invest in furniture that aids prolonged computer usage.

- A good keyboard is essential.
- Make sure that the source of illumination is over the shoulder and not from straight ahead. Don't allow direct light to fall on the monitor—the glare will make it difficult to use. Use an anti-glare screen if you find it necessary.

modem can be useful. When shopping for a modem buy
.4 kbps modems or better. Avoid the cheap 2.4 kbps
odems. If you have the budget buy a top-of-the-line 28.8
ps modem—especially if you need to regularly make STD
lls to transfer data.

As far as the furniture is concerned, usually the normal
airs and tables available in most offices and homes can be
ed. But you can also buy special computer workstations
even get them custom made.

There's also a reference guide for SOHO users, reviews of
pular multimedia CD titles and home PCs, in this issue.
One area we have deliberately not touched upon is the
ftware to go in for. This is because, apart from the
nipresent office automation products available—these
e regularly featured and reviewed by PCQ—the products
ecifically designed for specific SOHO users (doctors,
gineers, chartered accountants, etc) are far too numerous
d diverse to cover in one go.

NB

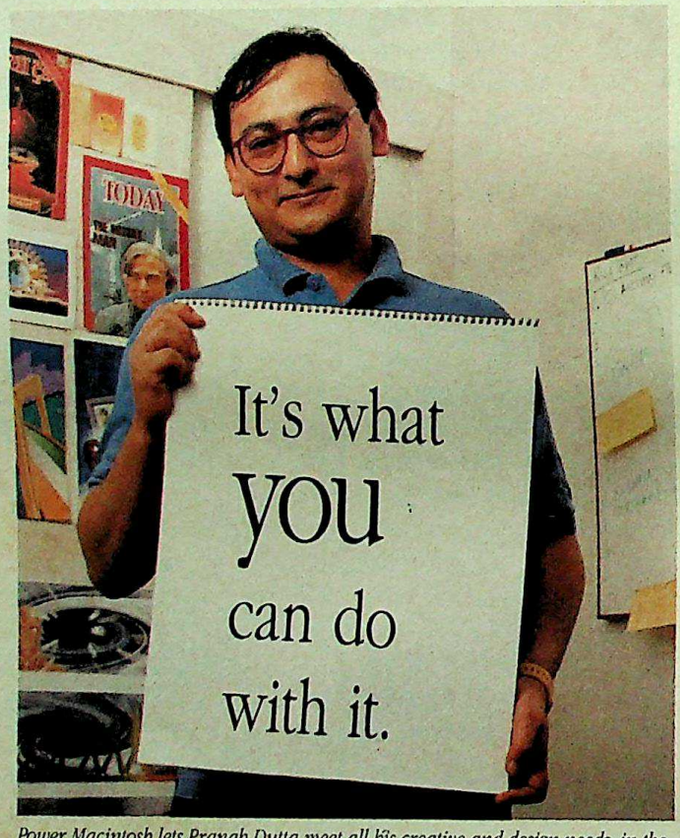
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Macintosh: The computer that fits in. Power Mac is compatible with DOS and Windows systems, so your software investment is safe. With the powerful RISC-based PowerPC microprocessor and built-in ColorSync technology for colour calibration, it runs graphics programs 92% faster than the fastest Pentium PC. You can merge text, photos; create illustrations, graphics, backgrounds and vignettes. Handle filing, billing, correspondence and faxes. Increase productivity. Save time. And make your work look outstanding.

Macintosh: an investment for the future. Easily expandable and upgradable, your Power Mac will keep pace with new developments for years to come.

Talk to your nearest Apple distributor. And experience the power of Macintosh. The power that fits in. And stands out. The power to be your best.



Power Macintosh lets Pranab Dutta meet all his creative and design needs, in the comfort of his home.

Pranab Dutta

Independent Creative Consultant

I don't want to memorise a user's manual.

I just want to make my ideas look as good in reality as they do in my imagination.

I want to control every stage of the creative development and production.

I want to keep my finances straight.

And I don't want to wake up one morning and find my system is obsolete.

Having better ideas is my business. So I know one when I see it.

Apple Comput

Does more. Costs less. It's that sim

Our distributors: *Odin Computers India Ltd.* • Bangalore Ph.: (080) 364087, 369694 Fax: (080) 3323357 • Delhi Ph.: (011) 6856701 Fax: (011) 6863306 *Wipro Infotech Ltd.* • Ahmedabad Ph.: (079)441318, 441628 Fax: (079) 6425158 • Bangalore Ph.: (080) 5544076, 568049 Fax: (080) 557118 • Bombay Ph.: (022) 6323600-4 Fax: (022) 6323605 • Calcutta Ph.: (033) 2428489/ 91 Fax: (033)2425912 • Delhi Ph.: (011) 6473265, 6214038 Fax: (011) 6220292 • Madras Ph.: (044) 4997251 Fax:(044) 4994118 • Pune: (0212) 325541, 323381 Fax: (0212) 325401

Our Publishing Master Reseller : *International Graphics Limited* Hyderabad Ph.: (040) 233055, 242943 Fax: (040) 241425

©1995 Apple Computer International Ltd. All rights reserved. Apple and the Apple logo are registered trademarks of Apple Computer, Inc. All other brand or product names are trademarks or registered trademarks of their respective holders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

112294

Copper To The Home

Online connectivity can make a world of difference to the SOHO and home user

The SOHO and home user may appear to be isolated, but this is far from the truth. Worldwide, it's the home user who has pushed online activity to the point of revolution.

With the right type of connectivity, a SOHO user can benefit immensely from the Internet and the rest of the online world. Even solitary workers—or especially such workers—can benefit enormously from the resources of the Internet.

The best starting point for tasting the online world is your local BBS (bulletin board system). Very quickly after this, you'll find yourself proficient enough to subscribe to a paid service—such as VSNL's Internet gateway.

The BBS

One of the earliest connectivity options to be available in India was the BBS, with CiX in Bangalore and ECTCnet in New Delhi pioneering the BBS culture in South India and North India respectively. Today, while BBSes in India have not touched the magnitude and impact of their cousins abroad, they are thriving, and growing rapidly.

Of the multitude of BBSes in India today, some are free, others charge for specific services such as Internet e-mail. What matters is that they exist, and offer some service. Most popular BBSes today run around the clock, have many megabytes of shareware for downloads, and varied message bases. Users log on to get information and troubleshooting tips, battle about the best widgets around, or discuss topics ranging from culinary recipes to the intricacies of the DMA controller.

Many of these BBS users are SOHO professionals. And they benefit immensely from the tips they share on maximizing productivity.

E-Mail Providers

These provide Internet mail, apart from value-added services such as news and stock market figures. Many service providers are available, and some of them have been reviewed by PCQ in previous issues. A quick listing is carried on these pages.

E-mail is a quick and easy way to go

Modem Tips

- Buy a modem made by a reputed vendor. Avoid "cheap" imported modems, or those without V.42*bis* error correction and compression.
- Among modems that have achieved editor's choice ratings in PCQ Labs reviews are the Motorola Lifestyle 28.8, the ZyXEL U-1496E, the GVC 28.8, and, at the high end, the AT&T Paradyne and the Motorola Codex 3266Fast.
- Buy a fast modem—14.4 kbps or 28.8 kbps. It'll pay you back in online time saved.
- Ensure that your serial card is based on a high speed 16550A chip, especially with a fast modem.
- Long-distance BBS caller? Call late at night, or early mornings. The lines are clearer, and they're cheaper too.
- Avoid unattended transfers on STD lines. Your modem can freeze but still hold on to the line—and burn a deep hole in your pocket.
- Evade the DoT 5-minute beep by setting your S10 register to 200 (ATS10=20).
- Use a good comms package like Telix, with an autodialer and scripting. However, Win 95's HyperTerminal will also do.
- Poor line conditions? Use a lower speed.
- If you want to browse around, lower speeds are more stable. If you want to transfer files, use the highest speeds you can maintain.
- Avoid routing the telephone cable close to sources of electrical interferences like air-conditioners, water-pumps, etc.
- And don't forget that a line can be bad enough for even the best modem to fail on it. The only option then is to call later.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

online. It's also a quick way to get "offline" Internet access, through the many mailing lists, and mail-based services for ftp, WWW and other Internet service access.

The Internet

Probably the best thing to happen for the SOHO or home user is VSNL's recently-launched Internet gateway service. For e-mail alone, this is the fastest way to go, with message transit times in seconds. But well beyond this, you can "surf the Net"—from telnet and ftp to the World Wide Web, where you can get thousands of pages of updated information on just about any subject you'd care to name, from essays in Sanskrit to assembling a hydrogen-fusion device.

How To Get Online

All that you need in addition to your PC are a modem, a phone line and an account with a BBS, an e-mail service, or VSNL's Internet service.

For most BBSes, you merely have to dial the BBS number and follow the instructions provided to get a personal account. This is usually free; some BBSes will ask you to pay up for specific services. For an e-mail account or an Internet account, you'd need to contact the concerned agency, get an application form, fill it up, and pay the sign-on charges. Or just send in the RQS card with this issue, after filling in the appropriate number.

All this is simple enough, but there are often pitfalls. For a start, you need a good modem, for Indian phone lines often vary very significantly from those that the foreign modems were designed to handle. See the "modem tips" sidebar.

Some Indian BBS Numbers

BBS	Number
CiX	80-3341137
CobWeb	11-5783483
Delhi Online	11-5581166, 5578536
ECTCnet	124-352573
Headnet	11-2222135
Infomart BBS	80-5598401
Jabberwocky	212-678749
Livewire	22-5787812, 5790203
Nebula Net	11-5739404
Network 23	11-603497
ORB	8-295547
PCQ Online	11-6221734
Solutions BBS	11-6855362, 6965881
Status BBS	11-6985111
Twilight Zone	11-6830299
Wondernet	11-5741230

Inside Netiquette

Once you are online, there are a few points to note. These are not rigid laws, but more of unwritten guidelines that all online members obey. These procedures are collectively "netiquette", from "net etiquette".

- The online world is largely informal, so formal titles such as "Sir" and "Mr" are rarely used; more often, you'd use first names.
- It's considered improper to read and write messages online. This keeps the line occupied for a long time. This can be expensive if you are on a board that charges by the time spent online or if you are using STD. Even otherwise, you are denying access to another person wanting to go online. Capture the messages to a local file, log off, and read them at your leisure.
- Another thing frowned upon in BBSes is "flaming"—sending strongly vindictive messages, usually aimed at someone. Most BBS SysOps will issue a warning when flaming occurs and may even threaten to cut off your account if you carry on. Also considered inappropriate online are racial discrimination, gender bias and the usage of vulgar language.

The things you *can* do on the Net are far more interesting. You can send mail to people and expect them to communicate with you in a similar manner, thus saving on time and paper. You can interact with like-minded people on BBSes and get tips on virtually everything under the sun. You can access the Internet and the WWW and get a tremendous amount of information. You can even have e-pals, like pen-pals.

And of course, you can have a lot of fun.

Balaji

E-Mail Vendors

- **aXcess Online:** E-mail, online news, airline timetables and other information, and fax/telex/laserletter options. Optional stock information. BI Infotech. fax 022-4936578, tel 022-4937676.
- **DaRT India Online:** E-mail, financial databases, online information, fax/telex, stock information. Fax: 080-5535668, Tel: 080-5533667, 5533668.
- **ICNET:** E-mail, fax, online information. Tel: 011-6476471, 044-4914800.
- **GEMS.400:** E-mail, fax, telex. VSNL. Fax: 022-2624003, Tel: 022-2624020.
- **SprintRPG:** E-mail, fax, telex. Tel: 011-669463, 669669, Fax: 011-6858308, 6867324.
- **UUNET India:** E-mail, uucp. Tel: 040-291933, Fax: 040-238007.
- **Datapro Xee Mail:** E-mail, databases. Tel: 0212-791403, 791404, 791407, Fax: 0212-792411.

Internet Connectivity

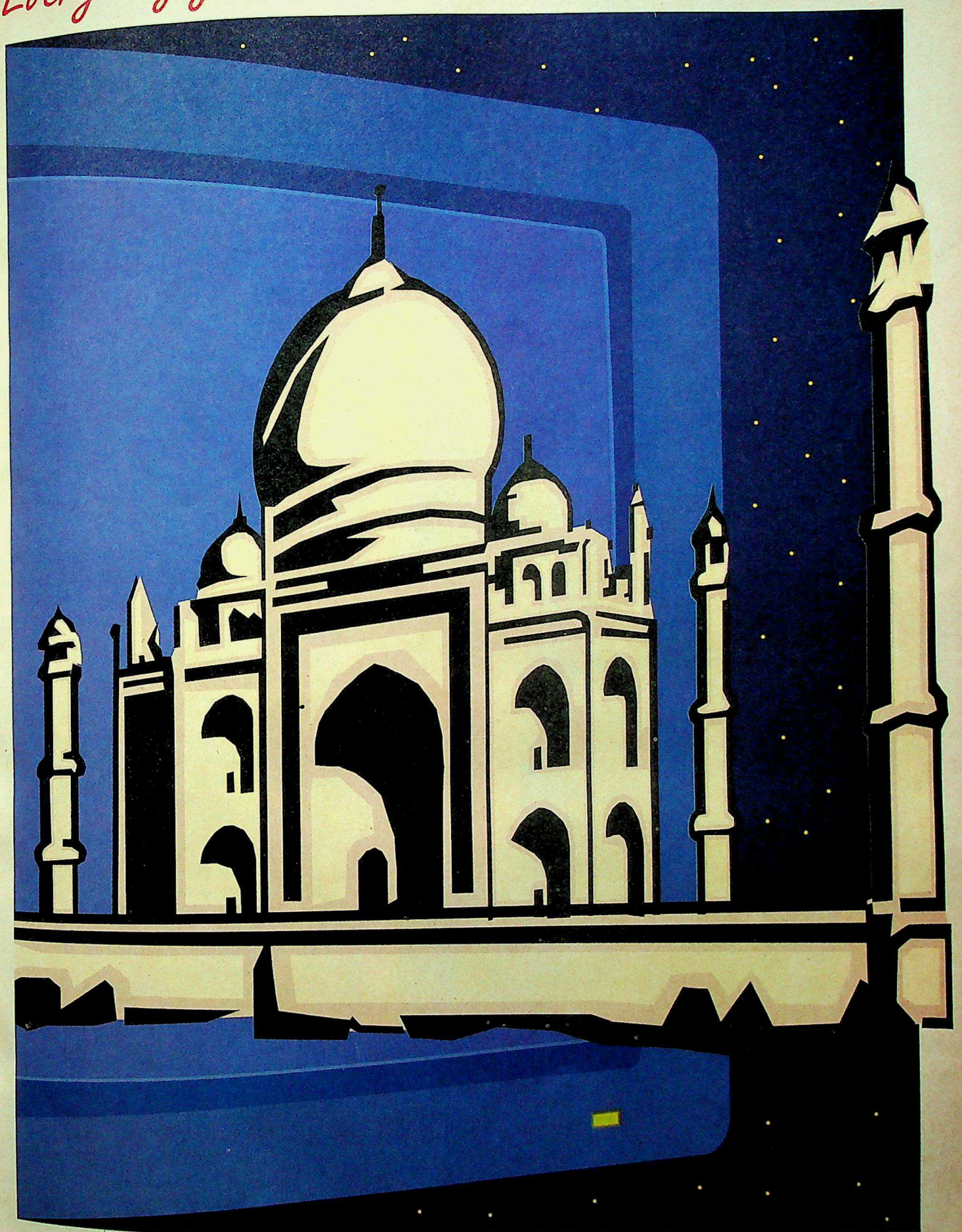
VSNL is currently the only provider allowed to offer full Internet connectivity—the other providers can only give you e-mail. With VSNL's GIAS (Gateway Internet Access Services) you can make use of all the features of the Internet like ftp, telnet and WWW, perform Zmodem downloads, etc. This service costs Rs 1,000 for registration and Rs 5,000 per annum (or 250 hours, whichever is earlier) for individuals. TCP/IP "graphical" access accounts are Rs 15,000.

Contact: VSNL, Tel: 011-3747337, 3746769, Fax: 011-3347337 E-Mail: helpdesk@vsnldl01.vsnl.net.in.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Everything you wanted to know about Virtual Reality



Hosted by :
Special Interest Group on Virtual Reality

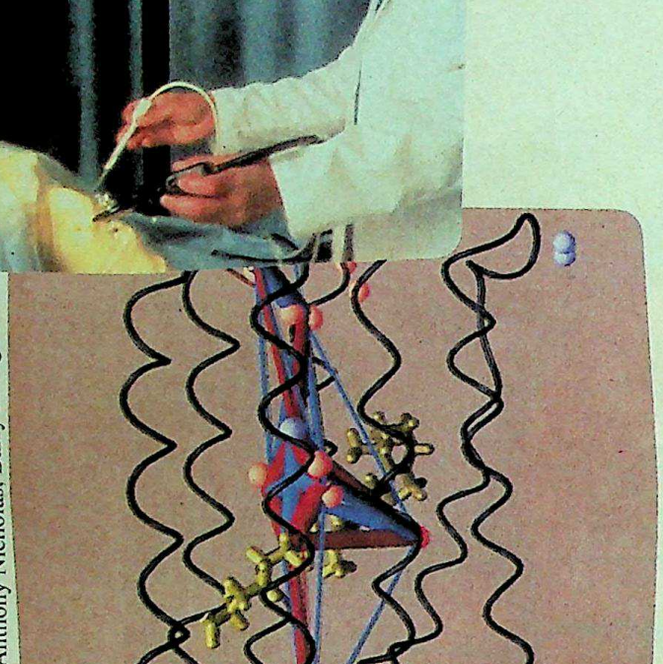
VI EXPO 96

• April 18th-20th 1996 • New Delhi, India

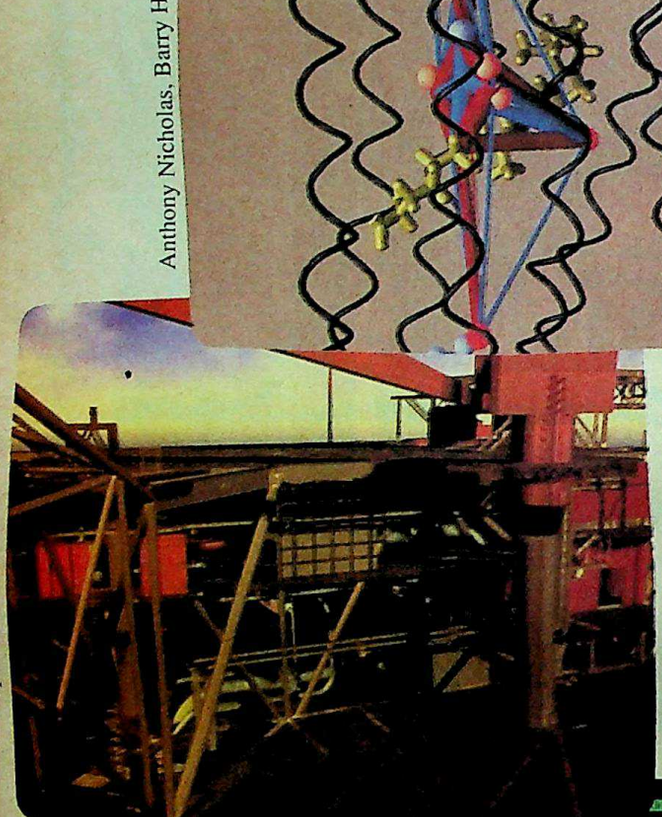
CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Foundation Chennai and eGangotri

Virtual Reality. The

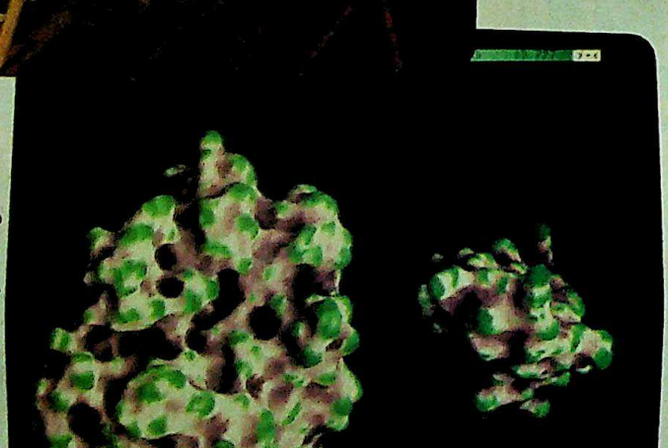
Medical Media Systems



Anthony Nicholas, Barry Honig



SiliconGraphics



Anthony Nicholas, Barry Honig

Amazing! Fascinating! And here to stay.

Virtual Reality is an extension of the multim communication technologies of today. VR, popularly referred to, is a technology expected to have a wide impact on all spheres

For this reason alone, you cannot afford to international strategic VR industry forum, V '96.

VR EXPO '96

It is the first ever comprehensive inte exposition of VR technologies and applic Asia. Organised by SIGVR, a non gove society, this event will satisfy the burgeoning spreading the use of VR technology in the especially in India.

VR EXPO '96 is accredited by the Ins Electronics & Telecommunications Engineers National Association of Software & Companies, India (NASSCOM) and Manu Association of Information Technology, India among others.

SIGVR

The Department of Electronics (DOE), Gover India, along with other organisations workin field of VR, formed a non governmental socie the Special Interest Group on Virtual Reality (The society's key objective is to prom awareness and use of VR technology in the especially in India. Eminent members of the include :-

Mr. Ashok Desai
Silicon Graphics Systems India (P) Ltd.
Mr. S.S. Oberoi
Department of Electronics, Govt. of India
Dr. V.P.Bhatkar
Centre for Development of Advanced Comp
Mr. H.K.Kaura
Bhabha Atomic Research Centre
Dr. R.K.Ramanathan
Aeronautical Development Agency
Dr. S.P.Mudur
National Centre for Software Technology
Mr. B.R.Sethna
Tata Consultancy Services
Dr. Sugata Mitra
NIIT Ltd.
Mr. Dewang Mehta
NASSCOM
Mr. S.K.Gupta
Department of Electronics, Govt of India
Mr. Anuj Rawla
VR Real Technologies Pvt. Ltd.

For details contact: **SIGVR** secretariat
506 Meghdoot, 94 Nehru Place, New Delhi 110019
Phone : 91-11-6416315/6411692
Fax : 91-11-6476664 E Mail : vinayak.cmil@axcess.net.in

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Che

e & Computing Experience.

erything you wanted to know about tual Reality".

theme has been chosen to enable participants to int themselves with current technological opments in VR. Keynote addresses by eminent specialists, presentations on Indian efforts in al Reality and interactive sessions amongst VR rs and users, would be the highlights of this rence.

nference

ree day tutorial cum conference is planned to ss issues such as VR concepts and practices, cations of VR, technology trends in VR among s.

inent Speakers

umber of speakers of international acclaim will ss the conference. Some of them include :-

r. Ed McCracken
airman & CEO, Silicon Graphics, USA
r. F.C. Kohli
puty Chairman, Tata Consultancy Services
r. Richard E Gillilan
rnell University, USA
r. Bob Jacobson
O, World Design, USA
s. Linda Jacobson
licon Graphics, USA

ibition

ree day exhibition of VR products from across lobe is also planned. Some of the products on ay would be virtual hardware, software, cation tools, devices and accessories.

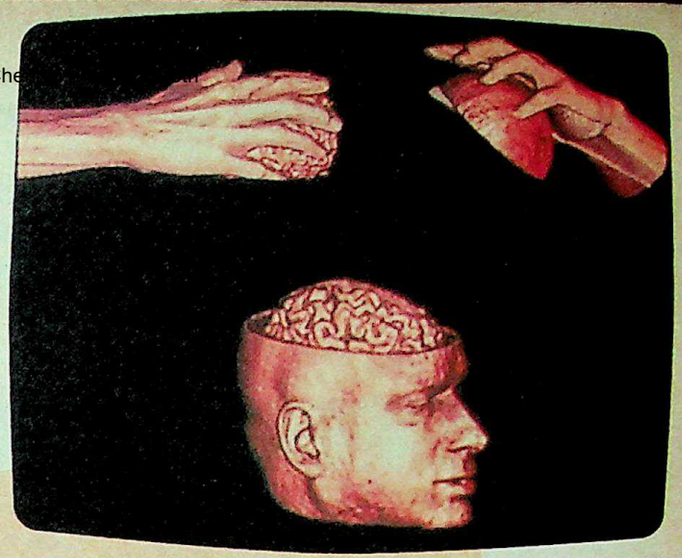
u must attend, if you are

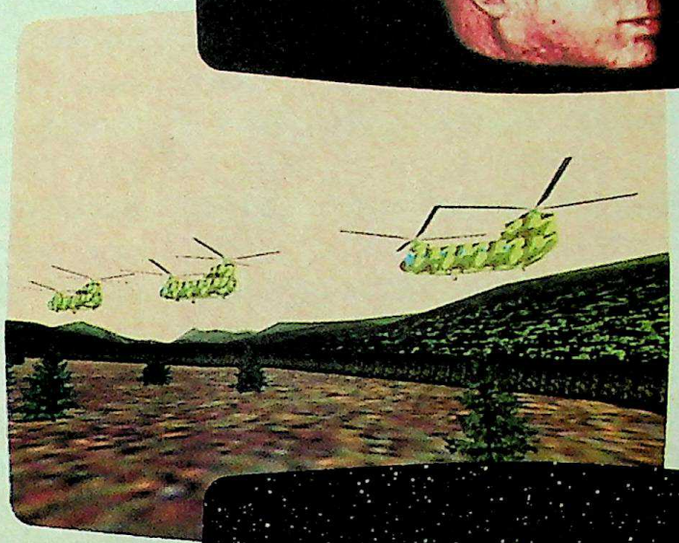
- business or organization currently developing or earching VR markets or products
- organization planning to develop VR products or vices
- usiness or organization seeking to integrate VR as omponent of your larger product effort ecommunications, entertainment, 3D graphics etc)
- epresentative of the investment community
- erested in high growth, high technologies for both rly and late stage deals
- professional interested in applying VR to specific siness markets
- user exploring the applications of VR products and rvices.

nue: Taj Palace Hotel, New Delhi.

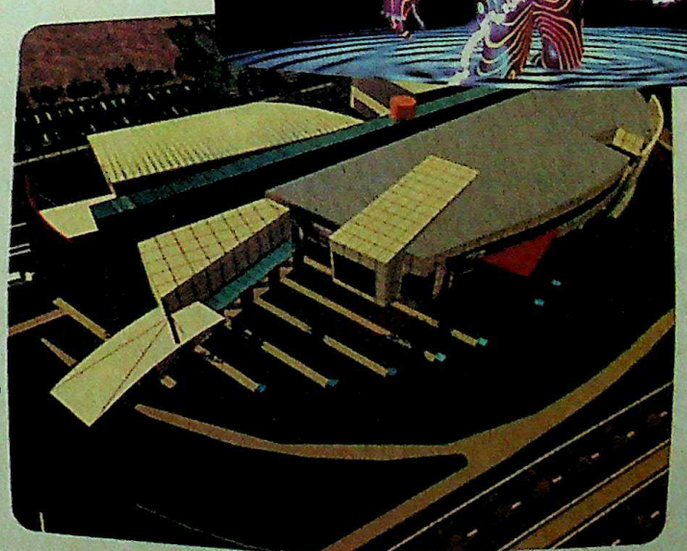
y Dates

18th 1996 : Conference tutorials
19th - 20th 1996 : Conference and Exhibition


Steve Senft


MultiGen

Korea Electric Power Corp.


SiliconGraphics

Show Managers:

CYBEREXPO
A Division of Cyber Media (India) Ltd.

401, 4th floor, MBC
134, Infantry Road, Bangalore 560001
Phone : 91-80-5511511/5568238
Fax : 91-80-5562971 E-Mail: blr.cmil@axcess.net.in

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE COMPREHENSIV

A one-Se

Vendor	HCL-FRONTLINE LTD					PERTECH COMPUTERS LTD					
Brand	Beanstalk	Beanstalk	Beanstalk	Beanstalk	Beanstalk	Prodigy	Prodigy	Prodigy	Prodigy	Prodigy	Prodi
Model X	HPC 4100	HPC 4150	[1]HPC 4300	[2]HPC 4400	[3]HPC 4600						
Size	Desktop	Desktop	Desktop	Desktop	Desktop						
CPU	486SX2	486SX2	486DX2	486DX2	486DX2	486DX2	486DX2	486DX2	486DX2[5]	486DX2[5]	Pentiu
Speed (MHz)	50	50	66	66	66	66	66	66	66	66	75
RAM	4 MB	4MB	4MB	8MB	8MB	4 MB	4MB	8MB	8MB	8 MB	8 MB
Cache	-	-	-	-	128 kB	128 KB	128 KB	128 KB	128 KB	128 KB	256 K
FDD	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 M
HDD	270 MB	270 MB	270 MB	270 MB	420 MB	420 MB	420 MB	528 MB	528 MB	420 MB	528 M
Monitor	VGA MoX	SVGA Col	SVGA Col	SVGA Col	SVGA Col	MoX VGA	SVGA Col	SVGA Col	SVGA Col	MoX VGA	SVGA C
CD ROM Drive	-	-	Creative	Creative	Creative	✓	✓	✓	✓	✓	✓
Sound Card	-	-	SB Pro	SB Pro	SB 16 VE	X	X	✓	✓	✓	✓
Speakers	-	-	[4]CS 10	[4]CS 10	[4]SBS 30	X	X	✓	✓	✓	✓
Mic	-	-	-	-	Hands-on	NA	NA	NA	NA	NA	NA
Fax/Modem	-	Pronet	-	Pronet	Pronet	-	-	-	-	✓	✓
Keyboard	101 key	101 key	101 key	101 key	101 key	101 key	101 key	101 key	101 key	101 key	101 ke
Mouse	MS	MS	MS	MS	MS	✓	✓	✓	✓	✓	✓
Tel/Ans-M/c	-	-	-	-	-	-	-	-	-	✓	✓
Prices (Rs)	48,707	68,847	78,917	97,997	108,527	53,200	64,060	92,275	97,485	99,875	119,40

Manufacturer	COMPAQ					HYTEX SYSTEMS					
Vendor											
Brand	Presario	Presario	Presario	Presario	Presario	Presario	Presario	Presario	Presario	Presario	Presari
Model X	[6]CDS 944	[6]CDS 962	[6]CDS 972	CDS 510	CDS 520	[6]CDS 524	[6]CDS 742	CDS 460	[7,8]CDS 5522	[6,7,8]CDS 9534	[7,8]CDS
Size	Tower	Tower	Tower	All in One	All in One	All in One	All in One	Tower	All in One	Tower	Tower
CPU	486DX4	Pentium	Pentium	486SX	486SX4	486DX2	486DX4	486SX	Pentium	Pentium	Pentiu
Speed (MHz)	90	60	75	33	66	66	90	66	75	90	100
RAM	8 MB	8 MB	8 MB	4 MB	4 MB	8 MB	8 MB	4 MB	8 MB	8 MB	8 MB
Cache	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FDD	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB
HDD	535 MB	535 MB	725 MB	270 MB	420 MB	420 MB	420 MB	270 MB	630 MB	630 MB	630 MB
Monitor	SVGA Col	SVGA Col	SVGA Col	SVGA Col	SVGA Col	SVGA Col	SVGA Col	SVGA Col	SVGA Col	SVGA Col	SVGA C
CD ROM Drive	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
Sound Card	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
Speakers	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
Mic	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
Fax/Modem	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
Keyboard	101 key	101 key	101 key	101 key	101 key	101 key	101 key	101 key	101 key	101 key	101 key
Mouse	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tel/Ans M/c	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
Prices (Rs)	14,0700	174,400	159,400	95,000	108,800	122,000	153,300	49,000	145,000	176,000	189,000

CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HOME PC BUYERS' GUIDE

reference guide

Manufacturer	APPLE COMPUTER INTERNATIONAL LTD				GATEWAY2000 DCM DATASYSTEMS			SCT COMPUTERS PVT LTD		
Vendor	TANGERINE									
Brand	Mac Performa	Mac Performa	Mac Performa	Power PC	Gateway	Gateway	Gateway	SCT	SCT	SCT
Model X	580	5200	6200	6100/66	P4D661	P575	P590	SCT 10H	SCT 20H	SCT 30H
Size	-	-	-	-	-	-	-	Desktop	Desktop	Desktop
DOS	×	×	×	✓						
CPU	68LC040	PowerPC 603	Power PC	Power PC 601	486DX2	Pentium	Pentium	486 DX2	Pentium	Pentium
Speed (MHz)	66	75	75	66	66	75	90	50	60	90
RAM	8 MB	8 MB	8 MB	8-16 MB	8 MB	8 MB	8 MB	4 MB	4 MB	4 MB
Max RAM	52 MB	64 MB	64 MB	72 MB	64 MB	128 MB	128 MB			
Cache	-	-	-	-	NA	NA	NA	256 KB	256 KB	256 KB
FDD	✓	✓	✓	✓	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB	1.44 MB
HDD	500 MB	500 MB	500 MB	500 MB	850 MB	850 MB	1.08 GB	540 MB	540 MB	1.08 GB IDE
Monitor	Col	Col	Col	Col	VGA Col	VGA Col	VGA Col	VGA MoX	SVGA Col	SVGA Col
CD ROM	Optional	2X	2X	2X/4X	4X	4X	-	2X	2X	2X
Sound Card	✓	✓	✓	✓	✓	✓	✓	×	✓	✓
Speakers	✓	✓	✓	✓	✓	✓	✓	×	✓	✓
Mic	✓	✓	✓	✓	NA	NA	NA	×	✓	✓
Keyboard	101	101	101	101	[9]105	[9]105	[9]105	101	101	[9]101
Mouse	✓	✓	✓	✓	✓	✓	✓	MS	MS	MS
Fax/Modem	-	-	-	-	-	-	-	×	✓	✓
Prices (Rs)	118,400	151,300	130,600	115,000	138,627	141,452	155,364	42,900	79,900	99,900

BUNDLED SOFTWARE/SERVICES:

Beanstalk Series: MS DOS 6.22, Windows for Workgroups 3.11, & Red Armor anti-virus software

- [1]HPC4300: Fasttracc, MS Works, Loom, Yoga CD, MS Home, BitFax/BitCom (Win). NIIT training. Free 6 month BBS subscription.
- [2]HPC4400: Fasttracc, MS Works, MS Home, BitFax/BitCom (Win). NIIT training. Free 6 month BBS subscription.
- [3]HPC4600: Fasttracc, MS Works, MS Home, EA Games, EA Kids, Creative Graphics, Creative software, BitFax/BitCom (Win). NIIT training. Free 6 month BBS subscription.
- [4]Creative

Prodigy Series: MS DOS & Windows for Workgroups 3.11, 125 CD-ROMs

- [5]Lotus SmartSuite

Presario Series: MS DOS 6.22, Windows for Workgroups 3.1, MS Works, TabWorks

- [6]MS Encarta
- [7]Presario Gallery Vault
- [8]MPEG Full Motion

Mac Performa Series: No DOS compatibility

Mac PowerPC: DOS-compatible, MS Generations, MS Consumer

Gateway Series: MS DOS, Windows 95, QA Plus (diagnostics)

P4D661/P575: MS Generations, MS Consumer, Superscale, games & virtual reality software

- [9]Win95-ready keyboard

SCT Series: MS DOS 6.22, Windows for Workgroups 3.11, & Red Armor anti-virus software

ADDRESSES:

HCL-FRONTLINE LTD, A-10-11, Sector III, NOIDA 201301 (U.P.). Tel: 11-8538953 Fax: 11-8526447

ODIN COMPUTERS, A-16, Aruna Asaf Ali Marg, New Institutional Area, New Delhi 110067. Tel:11-6856701 Fax: 11-686306

HYTEX SYSTEMS, J-107, NDSE Part-I, New Delhi 110049. Tel: 11-4610601 Fax: 11-4602881

SCT COMPUTERS PVT LTD, H-30, NDSE Part-I, New Delhi 110049. Tel: 11-4635733 Fax: 11-4632517

PERTECH COMPUTERS LTD, B-52, Okhla Phase I, New Delhi 110020. Tel: 11-6819105 Fax: 11-6819106

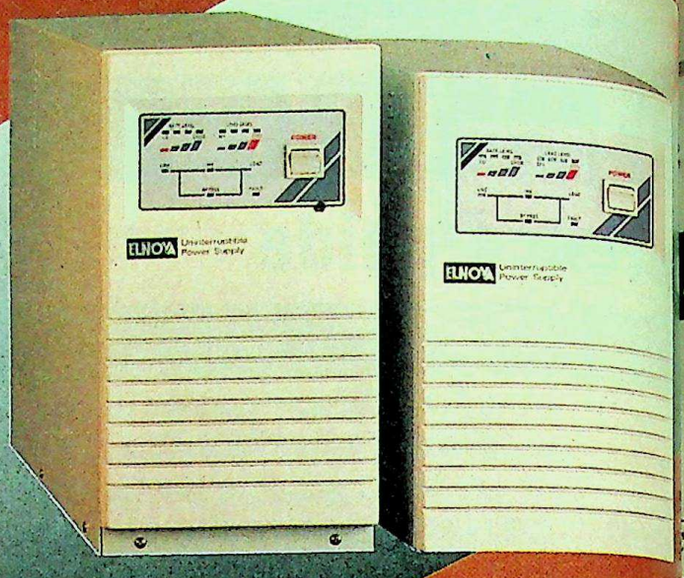
DCM DATA SYSTEMS LTD, Vikrant Tower, 4, Rajendra Place, New Delhi 110008. Tel: 11-5719961 Fax: 11-5755731

Note: The prices listed are inclusive of all taxes (ex-Delhi) and correct at the time of going to press. Please reconfirm with the vendor before making your purchase.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Elnova is the most preferred* UPS in India.



That's the verdict of the Computer Users from all over India.
And we fully endorse them.

After all, we've been making UPS and allied equipment for over 25 years.
And are one of the largest-sold# UPS brands in India.

Our UPS have stood the test of time.
And Quality.

That's because Elnova UPS are specially created for Indian environment and to work under typical Indian power conditions.

Whenever you require a UPS, do what the intelligent users are doing: get an Elnova UPS.

* Rated at Top
User Perception Survey, 1994 PC Quest

* Rated at Top Again
User Perception Survey, 1995
Report in PC Quest, September '95 Issue

\# 5113 units sold during
Nov. '94 - Oct '95

ELNOVA

ELNOVA PRIVATE LIMITED
41 New Okhla Inustrial Complex, Phase II, Scheme III, New Delhi 110 020
Telefax: 6841164, Tel.: 6846187,6917626

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PC Quest SOHO Survey

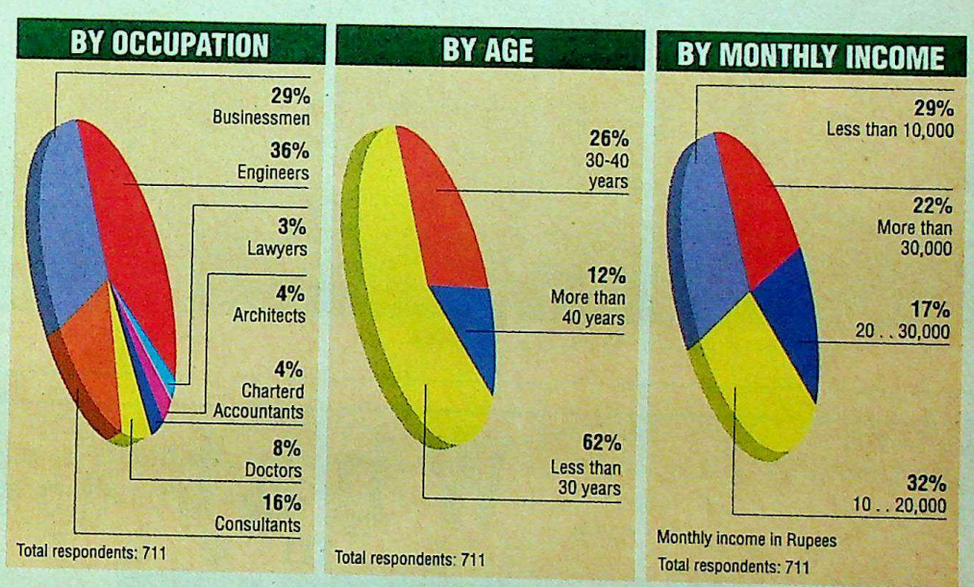
find out what SOHO users in India are using and what they plan to buy, we conducted a survey through Quest. The questionnaire was carried in our June '95 issue, and by the end of October '95 we had received er 800 responses. Since a few of the questionnaires were incomplete, for our final analysis we used a mple of 711 respondents. PCQ thanks readers who took the time to mail in their feedback to this survey.

rvey Demographics

Engineers, businessmen and consultants comprised over 80 percent of total respondents. A majority of the **hitects** (42 percent) were under 30, many of them reported monthly mes exceeding Rs 30,000. Most pondents used 486-based PCs with r monitors, 8MB+ RAM and laser ters, and planned to add multimeand e-mail.

f the **businessmen**, the majority percent) were under 30, and about rd of them were in the Rs 10..20,000 thly income bracket. Most used or lower PCs, with color monitors, + RAM, printers, multimedia, e- scanners, and notebooks. Many em planned to buy GUIs and cus- software.

s for **consultants**, most (66 per- were under 30, with 40 percent g an income in the range of Rs 20..30,000. They frequently use GUIs, spreadsheets, databases and word processors. Planned purchases include GUIs, area-specific apps and custom software.



Software Usage

Of all applications used, word processors were the most common—followed by spreadsheets. Over two thirds of the respondents indicated that

Key Findings

'0 percent of the respondents re- ted a monthly income of over Rs 000.

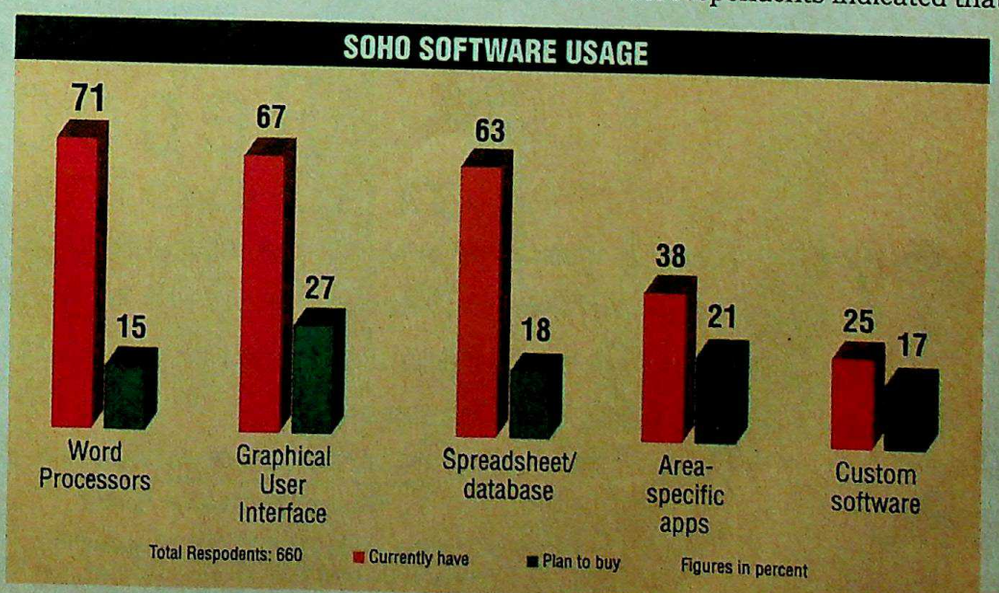
7 percent of the users plan to tch to Windows or OS/2.

ne-third of the respondents plan pgrade memory to 8 MB.

0 percent plan to buy a CD- M.

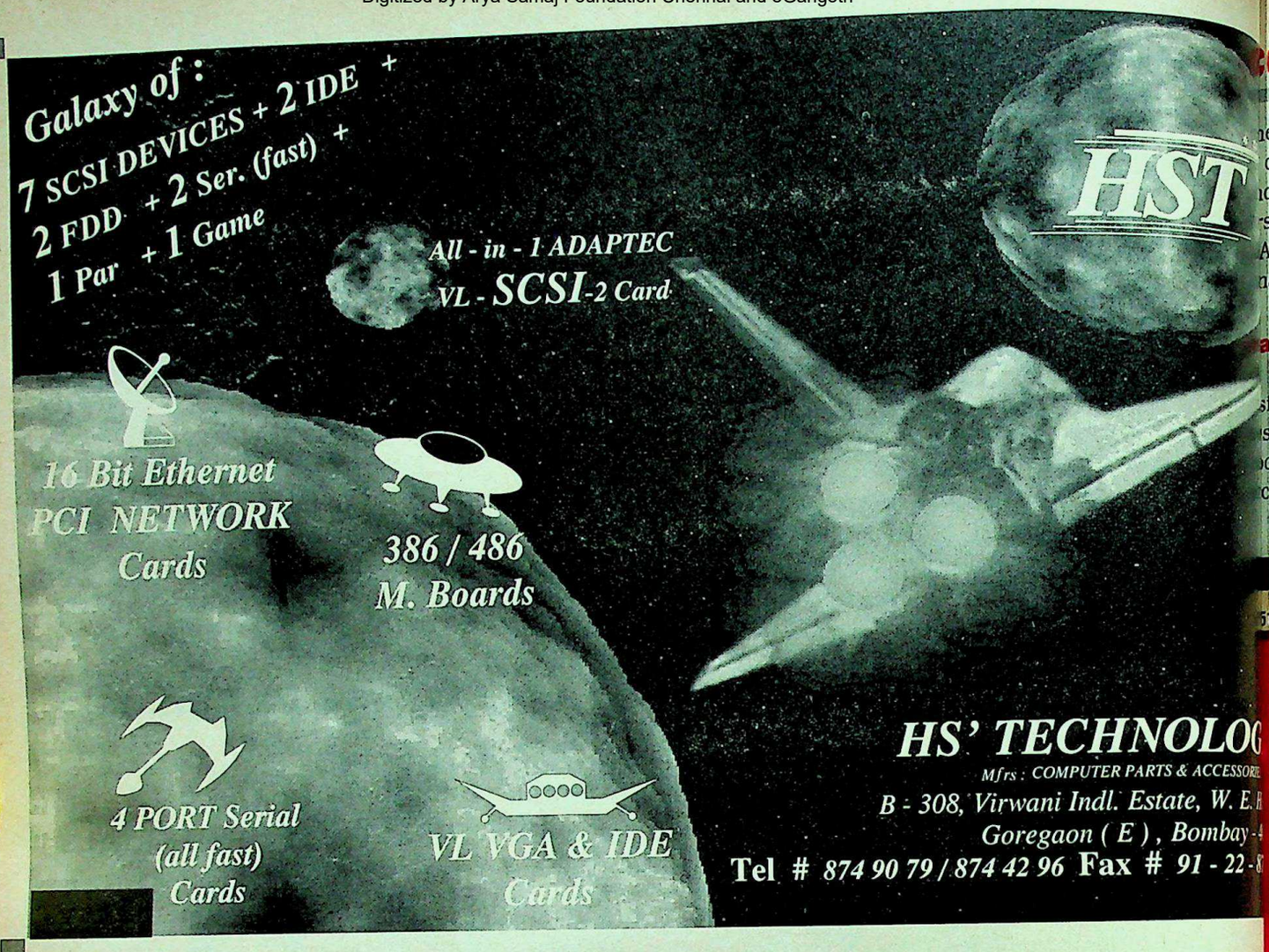
ver 40 percent of the users have 86 or better.

0 percent of the respondents plan uy a modem.



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



What does it means when my XT says 1 7 0 1 strike KEY to Reboot on Bootup

?* PC Quest. A friend that's as close as your system. It offers you a forum to exchange points and counterpoints, reach out to online solutions to your problems, share information and of course get to know all about what the market offers you. PC Quest. It' s unmissable!

THE PERSONAL COMPUTING MAGAZINE PC QUEST

THE USER'S VERY OWN MAGAZINE

*Authentic Reader Query

Cyber Media India Ltd. 701, Meghdoot Bldg.,
Nehru Place, New Delhi-19. Ph. : 6476664, 6416315

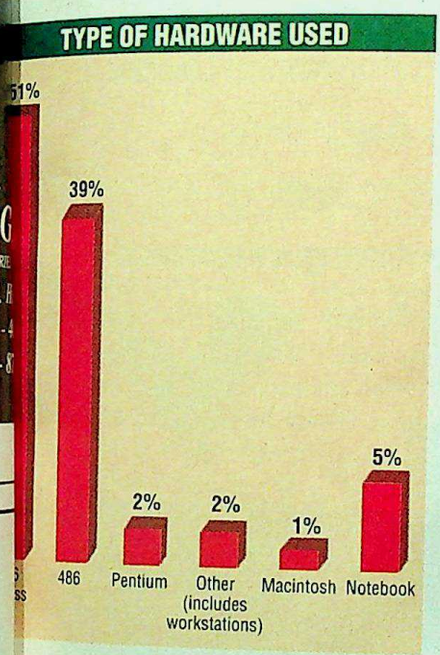
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

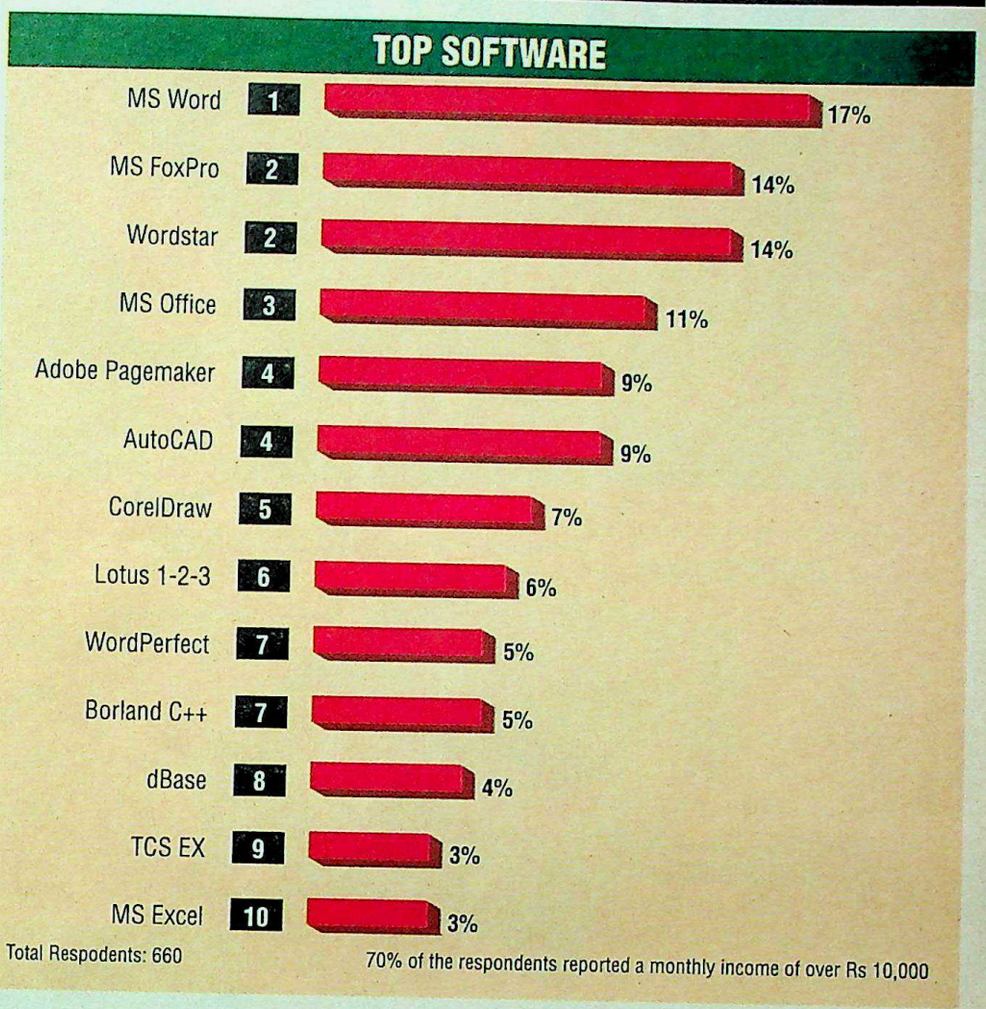
Digitized by Arya Samaj Foundation Chennai and eGangotri

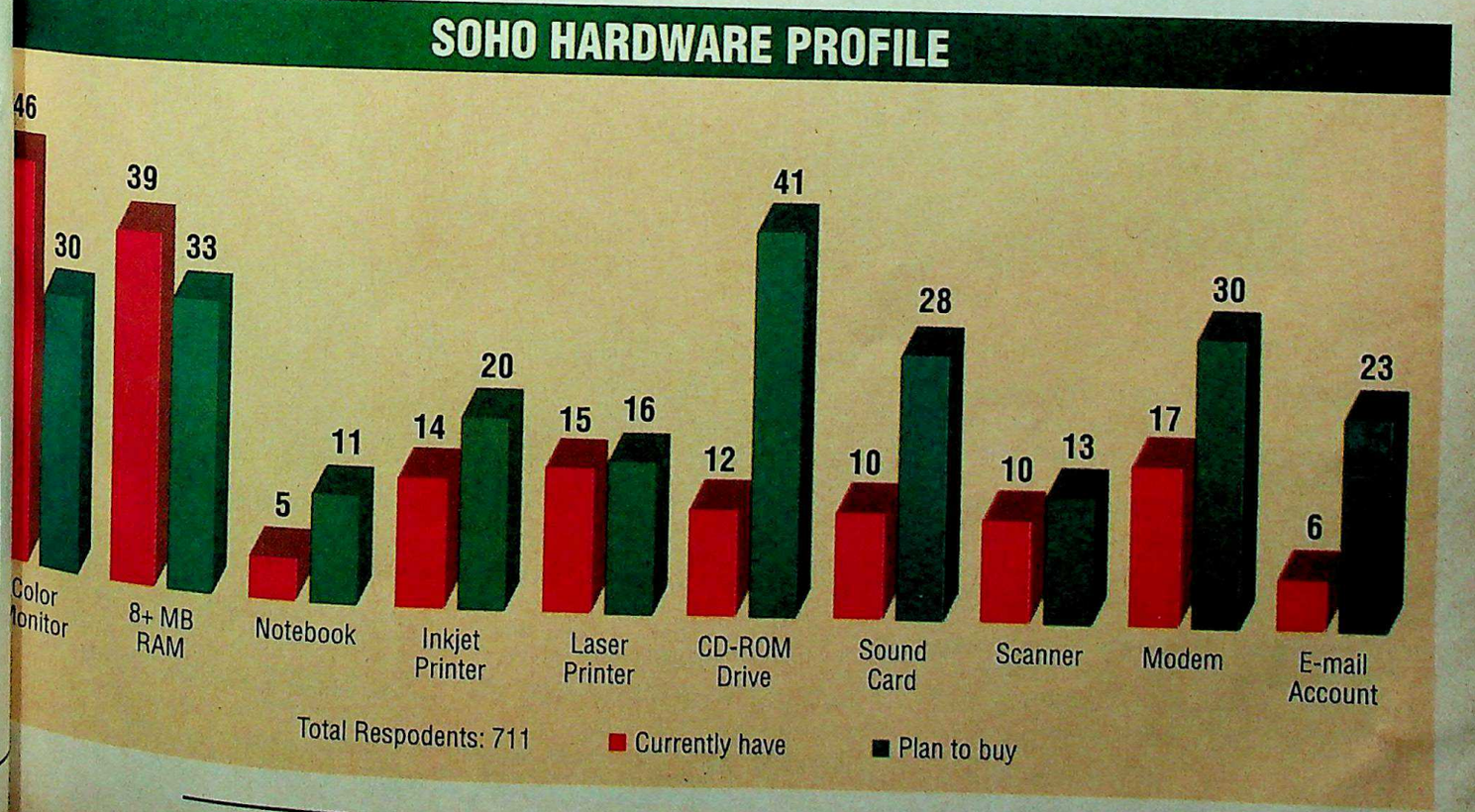
ney used a graphical interface like OS/ or Windows. A number of users also ndicated that they used their comput- s for area specific applications like AD/CAM or for custom software like nancial applications.

ardware Usage

About half the respondents were sing machines with 386 or lower pro- ssors and about 5 percent had note- ooks. Almost half the respondents had color monitor, while a another third were planning to buy one soon. About one third of the respondents were planning to upgrade memory to 8 MB and buy modems. And with software being increasingly shipped on CD-ROMs, a sizeable section of the respondents indicated that they would be purchasing CD-ROM drives.





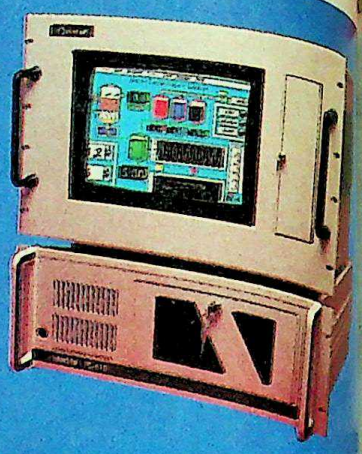


CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

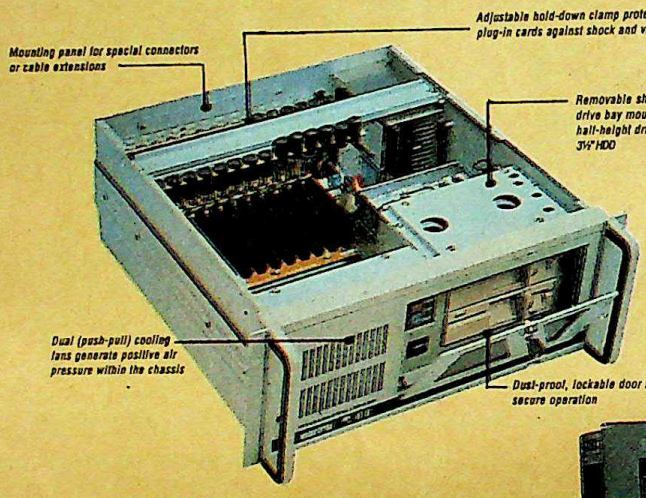
WHY ?

Customers buy INDUSTRIAL PCs *from* DYNALOG - ADVANTECH

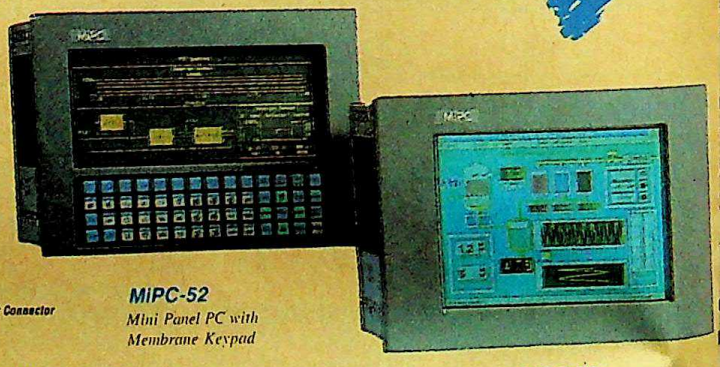


Reasons

- Price/ Performance Leader
- Quality Assurance
- ISO 9001 Certified
- Satisfaction guaranteed
- Fast Delivery

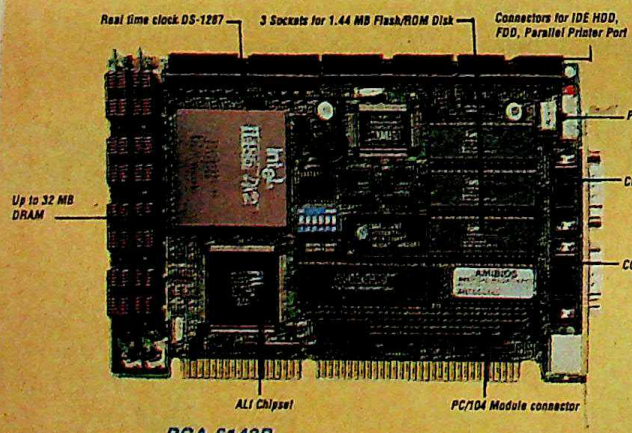


IPC-610
19" Rackmount IPC Chassis



MIPC-52
Mini Panel PC with Membrane Keypad

MiPC-50
Mini Panel PC

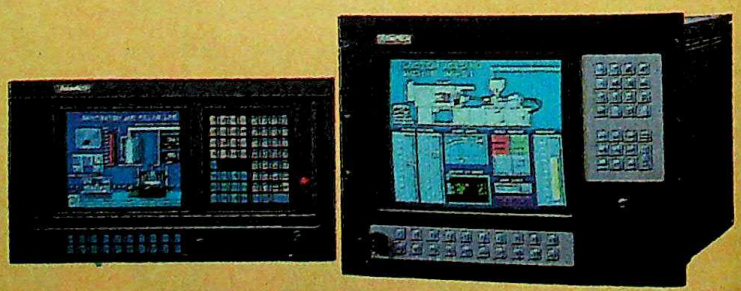


PCA-6143P
Half-Size 486 CPU Card with Flash/ROM disk.

ADVANTECH ISO-9001 Certified

DISTINCT & ENVIABLE FEATURES

- Heavy Duty Steel Chassis conforms to NEMA4 (IP52) / NEMA12(IP56) standards for operating in harsh Industrial Environments.
- All-in-one Industrial Grade CPU Cards with WATCHDOG TIMER & 30µ Gold plating.
- M.T.B.F. - 50,000 Hours!
- Filtered Push-pull cooling system and Hold-down clamp.
- Operating temperature : 0-50°C.
- Full function sealed membrane tactile response keypads with programmable macro keys.
- A choice of Color STN. LCD, B/W LCD or EL (ElectroLuminescent) Flat Panel Display.



AWS-860 **AWS-822**

DYNALOG MICROSYSTEMS PVT. LTD.

112, Hill View Industrial Estate, Amrut Nagar, Ghatkopar (West), BOMBAY- 400 086. INDIA.
Tel. : 022-517 0908 / 5171474; Fax : 91 - 22 - 5171979.
Branches :
• Pune : Tel. : 0212-356 907; Fax : 91-212-357 985.
• Ahmedabad: Tel. : 079-675 1977; Fax : 91-79-675 2944.
• Dehradun : Tel. : 0135-620 866.

Distributors
❑ Indore : Tel. : (0731) 55 5955; Fax : (0731) 55 5955.
❑ Secunderabad: Tel. : (040) 80 5775; Fax : (040) 82 2467.
❑ Bangalore : Tel. : (080) 526 0331; Fax : (080) 526 3495.
❑ New Delhi : Tel. : (011) 328 2582; Fax : (011) 327 6988.
❑ Madras : Tel. : (044) 482 3833; Fax : (044) 482 4101.
❑ Calcutta : Tel. : (033) 76 3 611; Fax : (033) 763 421.

APURVA / 95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Home PCs

The home PC is a multimedia-ready unit that combines good looks with a tempting collection of software. PCQ previews some popular models in the SOHO market

BeanStalk HPC 4600

The first thing that catches your attention is BeanStalk's cabinet with its dust-protection flaps for the disk drives. The flaps also conceal the volume controls, the reset button, and the system lock. This neat touch is not only functionally useful considering India's predominantly dusty climes) but also improves the looks of the PC. However, the rear is a mess of cables that connect the various functional parts of the system—HCL could look at improving this.

Once you get the machine up and running (takes about 10 minutes) you are presented with a graphical interface called **Fastracc**. In fact, when you first power up the machine it shows an animated picture of Jack climbing the beanstalk! The options of the beanstalk are configured as hot spots which activate different modules: Bookkeeping, Communication, Education, Games, Music, Office Work, and DOS/Windows interface and Creativity. Clicking on any of these brings up a sub-menu in the form of a hand holding different leaves through which you can navigate to various applications. Fastracc also has a tool-bar which is accessible from all apps.

The BeanStalk has a built-in 14.4 kbps modem. You can use the modem to connect to the BeanStalk BBS and get tech support from Frontline. Plus you also get free training sessions at NIIT if you buy the machine. The PC also ships with 20 CD-ROM titles (excluding 10 from Microsoft) and an anti-virus utility.

Overall, though the BeanStalk's documentation, online help and interface could do with improvement, the excellent bundled software make it good value for money.

PC PROFILE

MODEL: BeanStalk HPC 4600

Specs: 486DX2/66 with 8 MB RAM, 420 MB HDD, CD-ROM drive, 14" monitor and a 3.5" 1.44 MB FDD. Built-in 14.4 kbps modem. 20 CD titles.

Price: Rs 108,597

Summary: An integrated multimedia home PC with a useful collection of bundled software. Good value for money.

Contact: HCL-Frontline Ltd, A-10-11, Sector III, NOIDA 201301 (UP). Tel: 11-8538953 Fax: 11-8526447

Reader Query Service # E0134

Performa 6200

Setting up the Performa is quite simple—you connect the nicely labelled parts together (little icons on the cables indicate where to plug in)—and its ready to go. To power on the machine you just hit a button on the top right of the keyboard—and with a sonorous chime the display comes to life.

To get the first time user started off there's a nice Installer's Guide in the form of a poster. Of course, there's a lot more of the documentation—most of which you'll probably never need. The machine ships with **At Ease 2.0**—a special software for the novice users which is an alternative to the Mac desktop. Using At Ease you can assign various access levels and provide password protection to your files on the system—ideal for preventing other people from tinkering with your files. In fact, there's even a security lock at the back to deter the really determined.

The Performa 6200 also supports Apple's presentation system—a feature not available in the other models.

The machine also ships with the Mac Performa CD Series which has copies of all software that's on the hard disk—so that you can reinstall them if necessary.

The Performa 6200 has a RISC chip inside which makes it a lot more capable than any other PC in the market today. Plus it has the widely acknowledged easy-to-use Mac interface. One small point—the power cord supplied with the machine had flat pins for which we needed a special junction box. But in sum, if you need an easy-to-use home PC then this is it.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PC PROFILE

MODEL: Performa 6200

Specs: PowerPC/75 MHz with 8 MB RAM and 500 MB HDD. Bundled software includes ClarisWorks, Mavis Beacon 2.0, Quicken, Mac At Ease 2.0, Spectre and lots of clipart.

Price: Rs 130,000

Summary: This well-designed and integrated machine is one of the more expensive home PCs. It offers significant ease of use and a consistent user interface.

Contact: Odin Computers, A-16, Aruna Asaf Ali Marg, New Institutional Area, New Delhi 110067. Tel:11-6856701 Fax: 11-686306.

Reader Query Service #E0135

Presario CDS 524

The Compaq Presario's integrated single unit looks much like a Mac. It takes about five minutes to get it up and running and you soon face a customized interface called TabWorks. Developed by Xerox, TabWorks lets you do a variety of tasks like launching applications and navigating the disk through a simple and intuitive interface.

There's also a tiny microphone which is placed quite discretely and is barely noticeable. The PC ships with MS Works (an integrated software for word processing, spreadsheet and database functions) and Media Pilot (for playing WAV, MIDI and audio CDs). The documentation accompanying the machine is quite good—with separate manuals for hardware, software, printer, fax, modem, and answering machine. There's also a User's Guide for the CD Sound system and MaxFax software.

While the integrated single unit design saves space, we found that the display controls could do with some improvement—you need to search hard before you can find the brightness and contrast knobs. But the interface and added functionality are plus points. Should be on your list if you are shopping for a SOHO machine.

PC PROFILE

MODEL: Presario CDS 524

Specs: 486DX2/66 has 8 MB memory, a 417 MB hard disk, a 1.44 MB floppy drive, CD-ROM drive and five CD titles. Ships with TabWorks, MS Works and Media Pilot software.

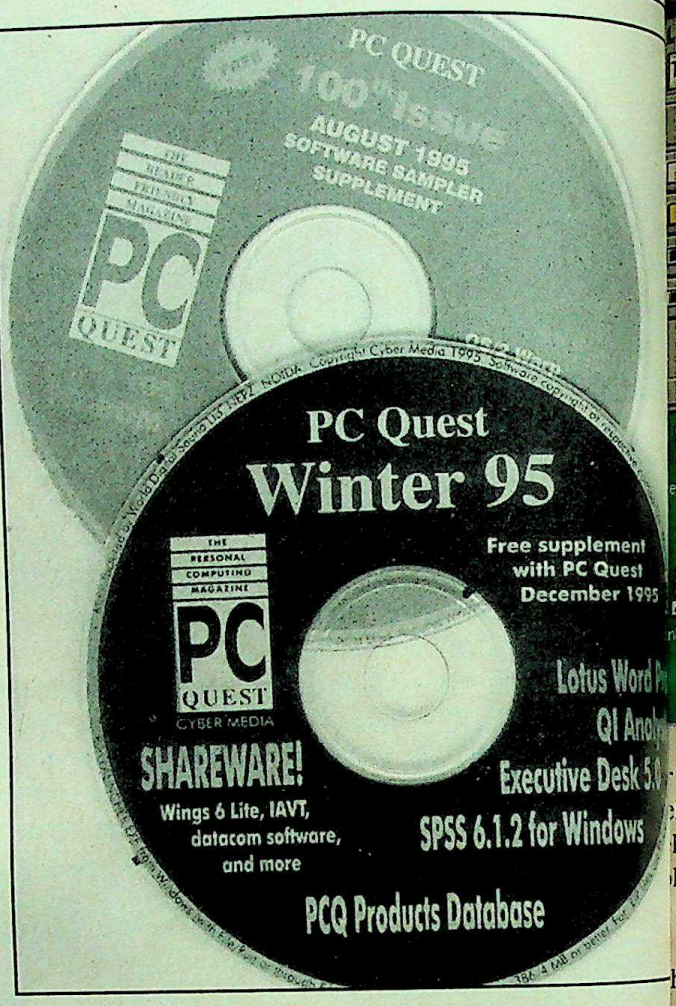
Price: Rs 110,000

Summary: A compact unit with a nicely integrated front end and added functionality for SOHO applications.

Contact: Hytex Systems, J-107, NDSE Part-I, New Delhi 110049. Tel: 11-4610601 Fax: 11-4602881

Reader Query Service #E0136

Meghna Relan



PCQ Spring 96 CD-ROM

with **The Linux Operating System**
plus shareware, demos and trial apps.

Space bookings for the disk are now open. At the lowest cost ever for software distributi in India. Don't miss out on it.

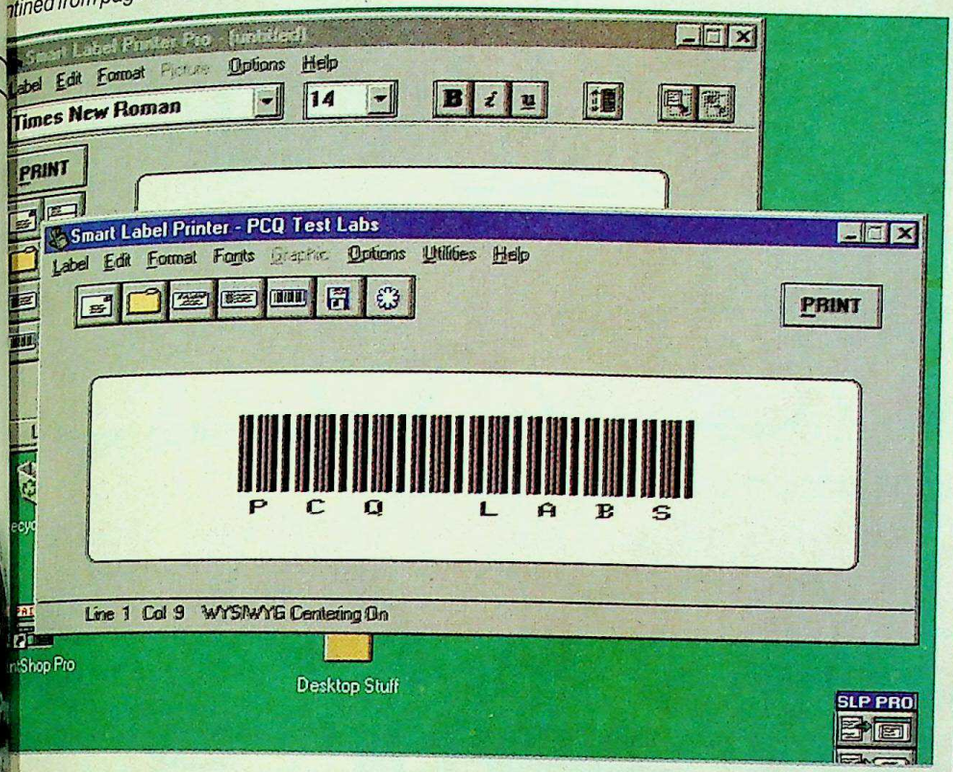
Space	Rate per MB	Total Cost
100 MB	Rs 3,000	Rs 300,000
50 MB	Rs 4,000	Rs 200,000
10 MB	Rs 6,000	Rs 60,000
5 MB	Rs 7,000	Rs 35,000
2 MB	Rs 10,000	Rs 20,000

Call: Bangalore: *5511511, 5568238: Srinivas Agnihotri.* ***Bombay:*** *6450050, 6450051: Rupa L Nathani.* ***Calcutta:*** *2471285: Partha Bannerje.* ***Delhi:*** *6411692, 6416315, 6476664: Yogesh Wadhwa.* ***Hyderabad:*** *849125, 846501: Krishna Rao.* ***Madras:*** *459498: Anil* ***Fax:*** *Delhi 6476664, Bombay 6403986, Bangalore 5562971, Hyde 816960, Madras 8252828.* ***E-mail:*** *PCQ CDROM <cyber@pobox*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ntinued from page 106



or so. That's a long time for an elope address, but not for a binder l. Printing is at 192 x 142 dpi lution.

Pro

his is the higher-end "deluxe" el. The Pro has, in addition to the ures it shares with the EZ 30, higher lution and faster printing. Printing el with and without a graphic took seconds from first click to output. also supports many more label sizes. And in its software, the Windows fonts are automatically available within the edit window, and ClickArt can be used. There's a margin adjust slider control and a picture placeholder. Creating labels follows the same process, but these can be organised in libraries. The edit window also gives you bold, italics and underline attributes.

So who needs these printers? Probably not those with mass-mailing requirements, for reasons of speed and cost—the labels come to over Rs 1 each. Printing labels for the *PCQ* subscriber base would take three working days and cost Rs 20,000, against four hours and Rs 4,500 on a fast dot-matrix printer. But for SOHO professionals or image-conscious offices with small-to-medium scale mailing needs, or workgroups with quality labelling needs, or mailings where the cost of the brochure mailed itself it very high—this is a neat set of products, especially the SLP Pro.

P Pro is faster and quieter, and more suited to midrange-label needs

Mala Bhargava

Intel Enters '96 At 166 MHz

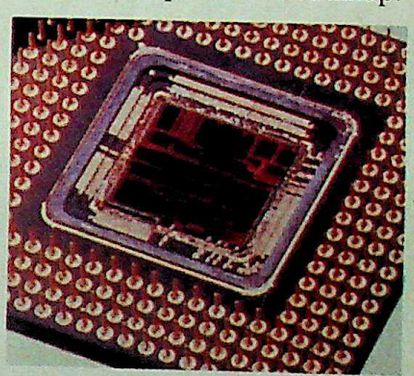
In January, Intel has put some more distance between itself and AMD, Cyrix, *et al*, with two new Pentiums. A 150 MHz chip at $547, and a 166 MHz chip at $749. Some 50 PC makers have already begun selling the machines, at between $2,400 and $2,700.

Intel will also cut the prices of its slower chips by about 20 percent later this month. A Pentium/75 is already under $160.

Although Intel's rivals have announced chips that match Pentium speeds, most of these chips probably won't arrive on the market until late this year. By then, Intel's top Pentium chip will run at least 180 MHz, and the 120MHz version may represent the low-end chip by the end of 1996.

Meanwhile, the Pentium Pro will gain momentum. Released last November at 150 MHz, it should hit 200MHz in the first quarter, aiming at workstations.

Michael Slater of *Microprocessor Report* outlines a probable roadmap:



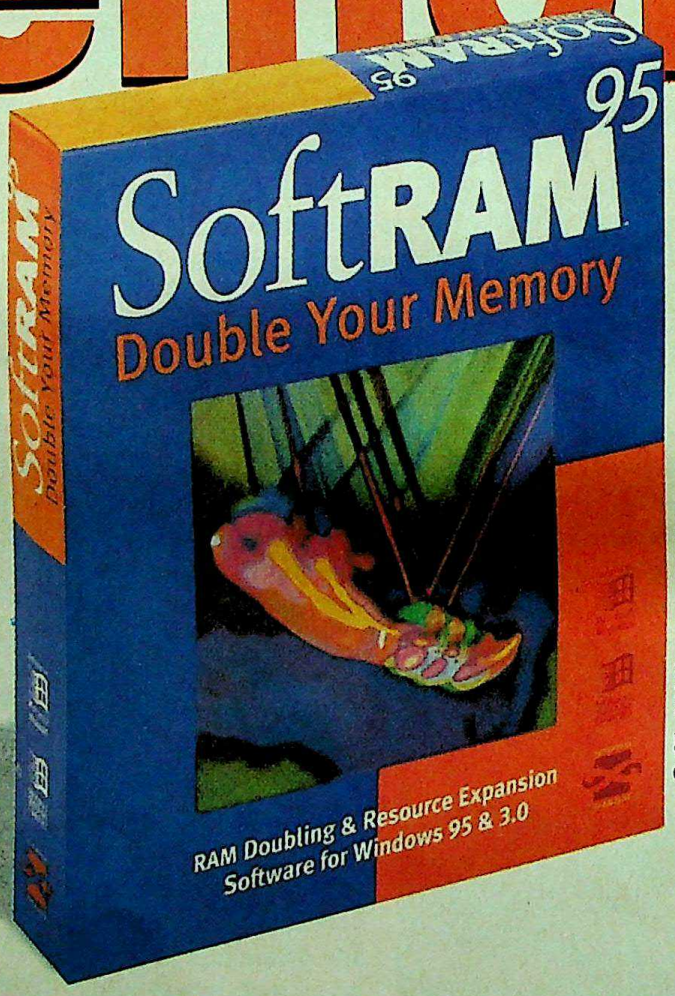
- In late 1996, Intel will launch the "P55C", a Pentium that will be much better at handling multimedia apps—with special multimedia instructions. So far, only Nexgen has announced it will also include multimedia instructions in its upcoming 686 microprocessor, due late-1996. The multimedia instructions could also be part of future Pentium Pros, resulting in a chip known as the P68 in 1997.
- By 1998, Intel will probably have its 64-bit P7, developed jointly with Hewlett-Packard. The RISC chip will run HP PA-RISC apps as well as DOS and Windows.

SVNS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

double click. double memory.



Designed for Microsoft® Windows®95

MICROSOFT WINDOWS COMPATIBLE

Now available in India through:
I.T.SECURE
52, Regency Chambers,
Bandra (W),
Bombay - 400050.
✆ 6431233/6454782.
Fax:6422182.
Dealers:
Bombay-Embee Software
✆ 8810560/561.
Pune-Computer Tech
✆ 624954/622363.
Baroda-DOS AV Services
✆ 425554.
Ahmedabad-Sentinel
✆ 406045.
Delhi-Micro Clinic
✆ 6214258/6468188/
6449437.
Calcutta-Flamingo
✆ 2214914.
Hyderabad-S.S.G.
✆ 3320198.
Bangalore-Kinfotech
✆ 6632394.
Madras-Veeras
✆ 4344821.

■ Doubling RAM doesn't have to be hard. Install SoftRAM[95] and instantly speed up Windows 95 and Windows and higher. Run multimedia and RAM hungry applications. Open more applications simultaneously. Say good-by "Out-of-Memory" messages. 4MB becomes at least 8MB. 8MB becomes at least 16MB. Get the idea? (In fact, you get up to 5 times more memory.) SoftRAM[95] works with all 386 and higher desktops and laptops. *PC Novice* SoftRAM the "real RAM doubler for Windows". Executive Summary: Don't Run Windows Without It.™

SoftRAM[95] is now at resellers everywhere or direct from 1-800-691-7981.

©1995 Syncronys Softcorp. All rights reserved. Syncronys Software, the Syncronys logo, SoftRAM, SoftRAM[95], and Don't Run Windows Without It" are trademarks of Syncronys Softcorp. US Patent Pending. All other trademarks are the property of their respective holders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Corel All-Movie Guide

CD ROM

Corel All-Movie Guide. Mac System 7 and Windows 3.1 (MPC II recommended). Rs 2,250. RQS # E0127.

A guide to 90,000 movies, for connoisseurs, critics, reviewers and quiz compilers. Describes plots; wide selection of titles from old silent films to recent TV series. Lets you choose films for home viewing, order movies online, or print out lists to take to the video store.

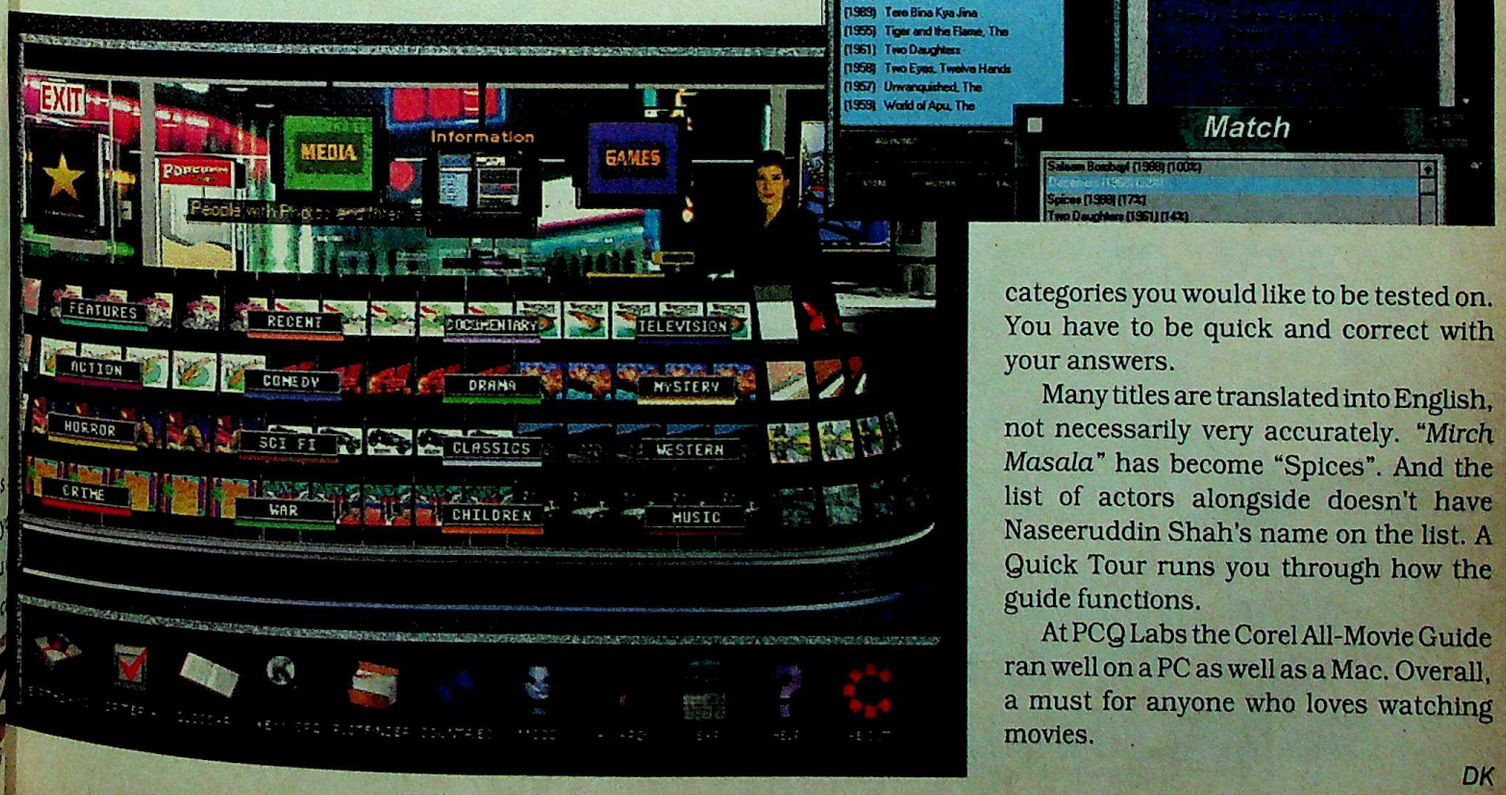
A huge collection of movie details, trivia, and fun and games, for the film connoisseur

This is a huge CD-ROM database—90,000 movies and videos. You'd use it as a film-related critic or other professional, or as a reference or quizzes you were compiling (or preparing for), or simply to choose movies you might want to loan from a video store, or buy online on the Internet.

In the **Corel All-Movie Guide**, the main menu is, naturally, a video store with an attendant. The attendant is the Search Wizard, and she lets you search for movies and actors alphabetically or by specific criteria. She has her movies organized by *genre*—Classics, Music, Crime, War, Science Fiction. A click gets you a full list of movies belonging to that genre, with descriptions.

Behind the attendant are buttons—information on actors and their filmography, the media (interviews and film clips of selected actors, such as Julie Andrews and Alec Baldwin), games (trivia quizzes and crossword puzzles) and information on directors and their filmography. More buttons get you trivia like "names of actors and directors who have a birthday today", and so on. You can also search by type of plot, mood and ambience, country, awards won, Universal- or X-rating, and more, through well-implemented filters.

And then there's the really fun part. Under Games, you can access a choice of trivia quizzes or crossword puzzles. They can be tough, but you can choose the categories you would like to be tested on. You have to be quick and correct with your answers.



Many titles are translated into English, not necessarily very accurately. *"Mirch Masala"* has become "Spices". And the list of actors alongside doesn't have Naseeruddin Shah's name on the list. A Quick Tour runs you through how the guide functions.

At PCQ Labs the Corel All-Movie Guide ran well on a PC as well as a Mac. Overall, a must for anyone who loves watching movies.

DK

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Dangerous Creatures

CD ROM

Microsoft Dangerous Creatures. CD-ROM f
Windows 3.1 or Windows 95. Rs 2,3
RQS #E0129.
A smoothly integrated multimedia wil
encyclopedia for children that's also gr
fun for adults. Highly recommended.

Another delightful interactive encyclopedia from Microsoft proves how much fun learning can be

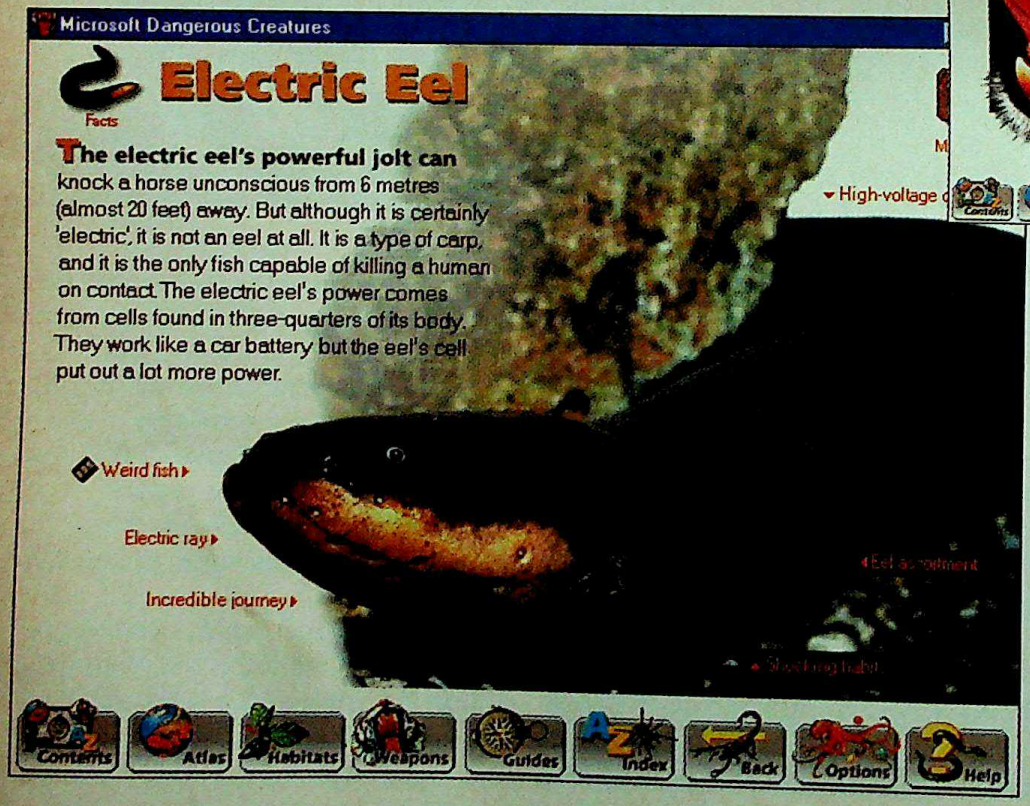
Did you know that mosquitos have killed more people than all the wars put together? Or that Black Widow spiders like best to live in outdoor toilets? Or that it's the lions that sometimes steal the prey of hyenas?

There are four ways to stalk Microsoft Dangerous Creatures. Pick them out of an alphabetical index, follow them round the globe, visit the habitats where they live, or learn about them by letting them stalk you—with jaws, claws and venom. If you'd rather not do this alone, let Microsoft take you on a guided tour from its menu of safaris—an Amazon Adventure, a North American Trek, or an Australian Walkabout.

Some of the guided tours chase after the dangerous creatures with a camera, or tell you stories along the way. One even tells you about the silly things people do to dangerous creatures! The items are rather nicely linked with a short commentary so that as you click to choose another item, you're told about something in common between one creature and the next.

The pictures are rich and clear. Mostly, you click and read what interests you. There are occasional short video clips and comments. Some surp quizzes test you and reward you wi video clip. The sound is in little c and can either be something dangerous creature you're looking said or did, or something out of habitat it belongs to. This can be a confusing sometimes leaving wondering just who ate whom!

A slide show and a small but really picture gallery, lets you choose a pic to paste elsewhere, print, or use a screen saver—complete with tigers grow



A part of the proceeds from this go towards the World Wildlife Fu But reducing the elaborate packag and all the paper that goes w Microsoft's CD-ROM series could help conservation efforts admirabl

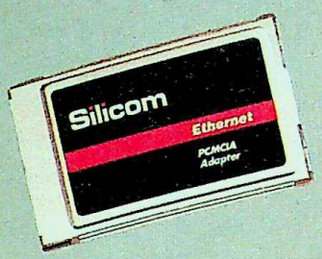
All in all, a wonderful way to te your children well. There are clickable definitions for difficult wo The text and sound clips are good Not detailed enough for the seri wildlife buff or photographer, b really good library or collector's nevertheless.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Thapar Group

IF YOU DON'T GET YOUR SILICOM NETWORK CONNECTIVITY ADAPTERS FROM CROMPTON GREAVES – YOU COULD LOSE OUT ON A GREAT DEAL !



FREE!
NETWORKING SOLUTIONS CUSTOMISED TO YOUR REQUIREMENT!

Stay Connected !

Portable computing becomes more productive with the ability to stay connected, even when on the move.

There are the superior performance PCMCIA Lan cards and there are the multi-function PCMCIA cards, which offer the fully parallel functionality of Ethernet or Token Ring with either a high speed Fax/Data Modem, RS-232 serial port or Flash memory on a single PCMCIA card !

CG - Informatics: The Triple Advantage!

- Backed by the reputed corporate giant Crompton Greaves.
- Unmatched Support services.
- Specially trained personnel.

And as if thats not reason enough, we shall provide you with your customised networking plans! *FREE*

So just get in touch with us, right away!

Crompton Greaves

CG Informatics — Creating leading edge infotech solutions.

F.S Advertising/CGI/151/PCQ

Crompton Greaves Limited: DELHI: 8-E, Jhandewalan Extn., Rani Jhansi Road, New Delhi - 110 055, Tel: 3558237-38, Fax: 3558237 • BOMBAY: Kanjur Marg (E), Bhandup, Bombay - 400 042, Tel: 5793065-66, Fax: 5786201• CALCUTTA: 50, Chowringhee Road,Calcutta - 700 071, Tel: 229681-85, Tlx: 021-7824 • MADRAS: 3-A, Kadambakkam High Road, Tel: 8283257, Fax: 8250877, Madras - 600 034 • BANGALORE: "Lakshmi Mansion", 4/02, II Floor, 22 Cross, 8th Main III Block, Jayanagar, Bangalore - 560 011, Tel: 6647131, 6647029. Fax: 6647131, NW HQ: Tel: 648055, Fax: 6633801 • COCHIN: 300-6, Chrupushpam Bldg., P.B. No. 2506, Shanmugam Rd., Cochin - 682 031, Tel: 370860-62, Fax: 373738 • SECUNDERABAD: 4th Floor, Minerva House, 94, Sarojini Devi Road, Secunderabad - 3, Tel: 847270, 847090, Fax: 815831.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Fine Artist

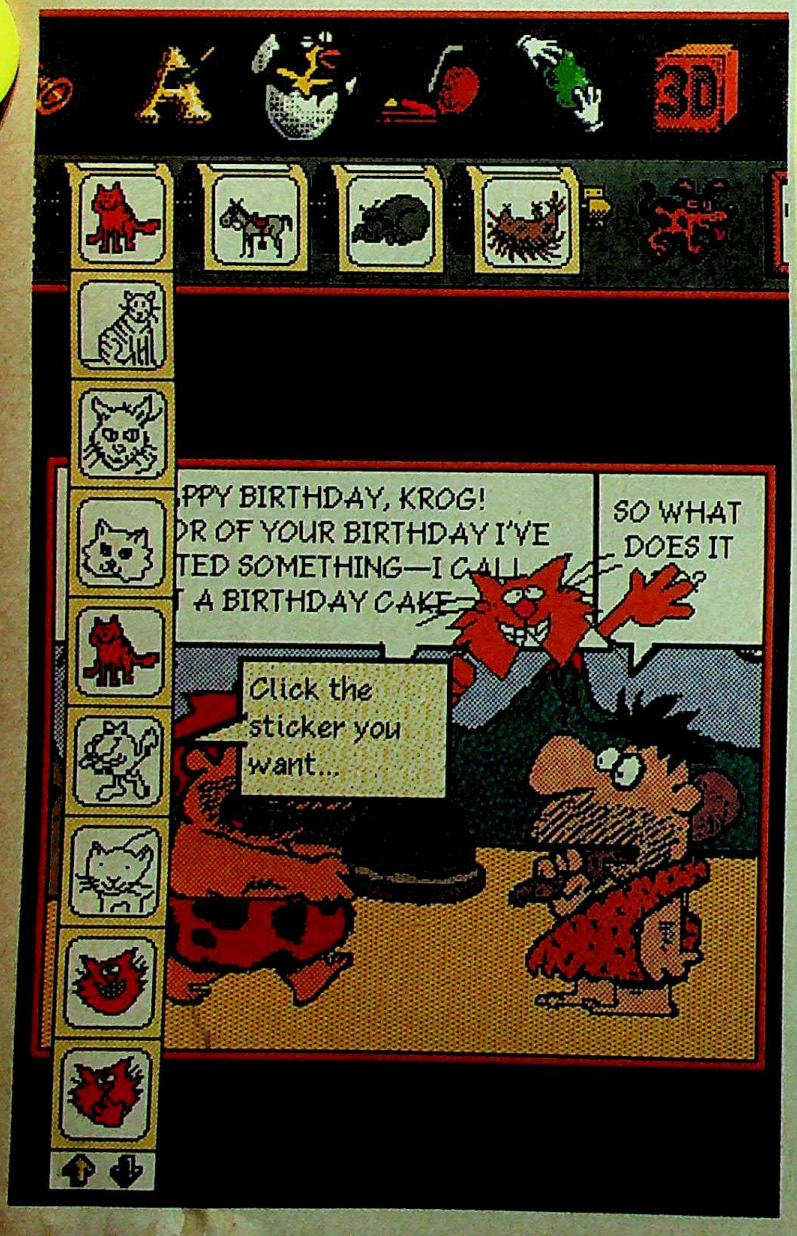
CD ROM

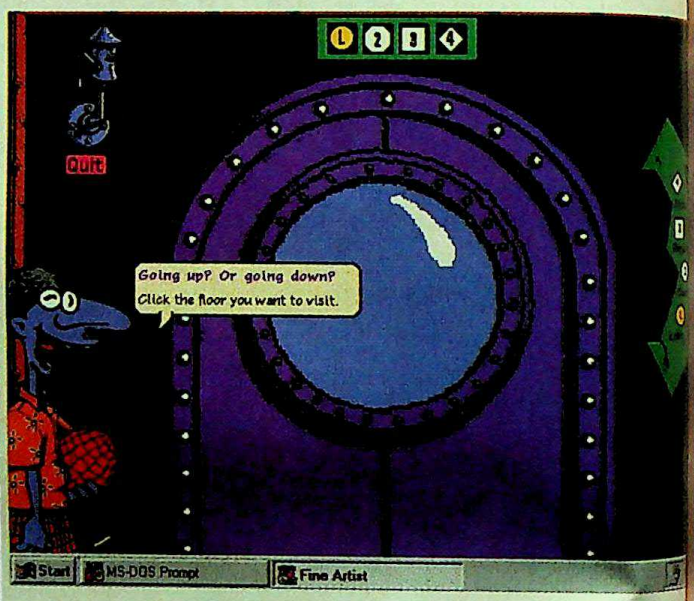
Microsoft Kids Catalog: Fine Artist. CD-R for Windows 3.1 or Windows 95. Rs 1,2 RQS #E0131.

An elegantly crafted package with a imaginative interface, that teaches kids to draw and paint, and have a lot of doing so.

An imaginative multimedia art tutor for kids from a wide range of age-groups

As the father of two extremely multimedia-friendly, infotainment-hungry girls aged five and eleven, I've become some sort of a minor expert in reviewing kids' software. After looking at Fine Artist from the Microsoft Home Kids Catalog (while my kids are unfortunately away on vacation) makes me hope that PCQ's editor won't ask for this title back after I review it. If he does, I'm going to snap it up for less than Rs 1,500, soon as I can. I'm sure my kids will love it, but the fact is that I'm rather hooked on it...





What does it do? It teaches you to draw a pig (or anything else, for that matter) and all the while it oinks at you in the most charming manner. Maggic is the utterly beguiling resident art expert from the cartoon world. McZee is the equally mesmerizing guide with a carpet-bag full of "cool tools" that help you fashion animated stickers, pos comic strips multimedia picture sh apart from drawings and paintings u 72 paintbrush styles and up t custom colors and patterns. You add all kind of zany sounds to your actions and creations, add to your lettering, learn about persp drawing (including knowledge a vanishing points).

The interface involves a funny tiered house in which an elevator you up and down, complete with s effects. Each floor is an acti area with a different set of thing do. This one your kid may never of, probably until the age of four or so. Microsoft recommends package for the ages of eight upw but I think a bright five-year-old can be taught to control a mouse be able to start to do many of things in this package. Overall, a rate kids' product.

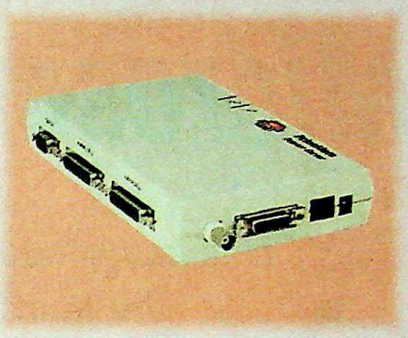
Sandeep K

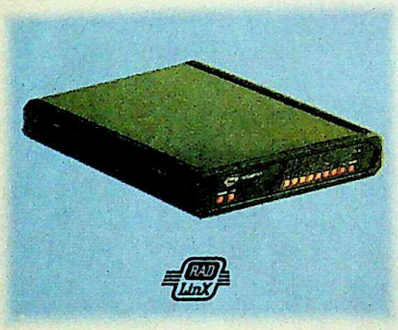
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Thapar Group

IF YOU DON'T GET YOUR RADLINX TERMINAL & PRINT SERVERS FROM CROMPTON GREAVES -





YOU COULD LOSE OUT ON A GREAT DEAL !

FREE!
NETWORKING SOLUTIONS CUSTOMISED TO YOUR REQUIREMENT!

Saving you Money!

Radlinx offers you it's Terminal & Print servers, the Printmate & the PassaPort. It also offers multi protocol gateway products that connect anything from anything to SNA, DEC and Unix delivering the smoothest data transfers. Its resource sharing products save you money!

CG - Informatics: The Triple Advantage!

- Backed by the reputed corporate giant Crompton Greaves.
- Unmatched Support services.
- Specially trained personnel.

And as if thats not reason enough, we shall provide you with your customised networking plans! *FREE*

So just get in touch with us, right away!

Crompton Greaves

CG Informatics — Creating leading edge infotech solutions.

F.S Advertising/CGI/151/PCQ-1

Crompton Greaves Limited: DELHI: 8-E, Jhandewalan Extn., Rani Jhansi Road, New Delhi - 110 055, Tel: 3558237-38, Fax: 3558237 • BOMBAY: Kanjur Marg (E), Bhandup, Bombay - 400 042, Tel: 5793065-66, Fax: 5786201• CALCUTTA: 50, Chowringhee Road,Calcutta - 700 071, Tel: 229681-85, Tlx: 021-7824 • MADRAS: 3-A, Kadambakkam High Road, Tel: 8283257, Fax: 8250877, Madras - 600 034 • BANGALORE: "Lakshmi Mansion", 4/02, II Floor, 22 Cross, 8th Main III Block, Jayanagar, Bangalore - 560 011, Tel: 6647131, 6647029. Fax: 6647131, NW HQ: Tel: 648055, Fax: 663801 • COCHIN: 300-6, Chrupushpam Bldg., P.B. No. 2506, Shanmugam Rd., Cochin - 682 031, Tel: 370860-62, Fax: 373738 • SECUNDERABAD: 4th Floor, Minerva House, 94, Sarojini Devi Road, Secunderabad - 3, Tel: 847270, 847090, Fax: 815831.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Microsoft Oceans

CD ROM

Microsoft Home: Oceans. CD-ROM
Windows 3.1 or 95. Rs 1,500. RQS #5
A voyage into the deep and its myste
Guided tours, quizzes, browsing with
photographs and video aided
commentaries and music. Marine
oceans of the world, and people and
sea. An outstanding production.

EDITOR'S CHOICE PC QUEST 1996

This encyclopedia of the deep is among the finest in edutainment software

There's something 500 times more poisonous than cyanide, and it's a fish. The biggest fish on the planet is a whale shark...and all the poor thing eats is shrimp! Electric rays can generate 220 volts of electricity...

While you read about these delightful bits of trivia, don't be surprised at the strangest sea creatures floating across your screen, snapping their jaws at you or trying to startle you with a loud watery hiss. These are Microsoft Ocean's creatures and this is their world.

Just pick a creature or sea topic from the index, or jump randomly across page after page of fantastic photography, linked with tasteful commentary that introduces you to the sea creature and then leaves you to read about it on your own. The ocean world is brought alive on your PC with video clips blended beautifully with clear sound and music.

Marine Life tells you about fish, mammals, reptiles and birds, sponges and crustaceans. A World of Water covers the ocean environment, coastal protection, the fishing industry and shoreline development. There are animated displays of how tsunamis are created or what happens when the tide comes in. People and the Sea tells you about the future of the oceans, science and survival, the WWF, disasters at sea, pirates, explorers, ships and submarines, oceanography, and much more. Every now and th quiz will stop and ask you about t you have learned. You can us beautiful photographs from the picture gallery for Windows wall or lively screensavers.

You can say goodbye to land a one of Microsoft Ocean's hosts tak on a guided tour of the wonders

under. Each guide has a menu o tours. Kim, the solo sailor, will tak around on her 30-foot sloop. O out with Eli, or dive in with Fra you aren't fond of people, the s visitor Zarka can read you his h home writing of his surprise at fi his favorite crunchy fossils, deep this strange planet called Earth.

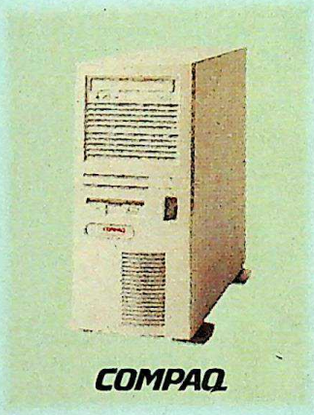
Probably the finest of the Mic Home collection, comprehensive information, creatively authored directed, with a fluid balan information and entertainment.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Thapar Group

IF YOU DO NOT GET YOUR COMPAQ SERVERS FROM CROMPTON GREAVES FOR YOUR ENTERPRISE WIDE NETWORKING SOLUTIONS — YOU COULD LOSE OUT ON A GREAT DEAL!



FREE!
NETWORKING SOLUTIONS CUSTOMISED TO YOUR REQUIREMENT!

The worlds most highly acclaimed !

Compaq, the worlds No. 1 Company in desk tops, undisputed leaders in network servers, now make their products, ProSignia 300, Proliant 1500 & Proliant 4500, available to you through CG-Informatics.

Lower costs!

Compaq's Pentium based ProSignia and Proliant Line, dramatically lowers life time costs of maintaining networked PCs.

CG - Informatics: The Triple Advantage!

- Backed by the reputed corporate giant Crompton Greaves.
- Unmatched Support services.
- Specially trained personnel.

And as if thats not reason enough, we shall provide you with your customised networking plans! *FREE*

So just get in touch with us, right away!

Crompton Greaves

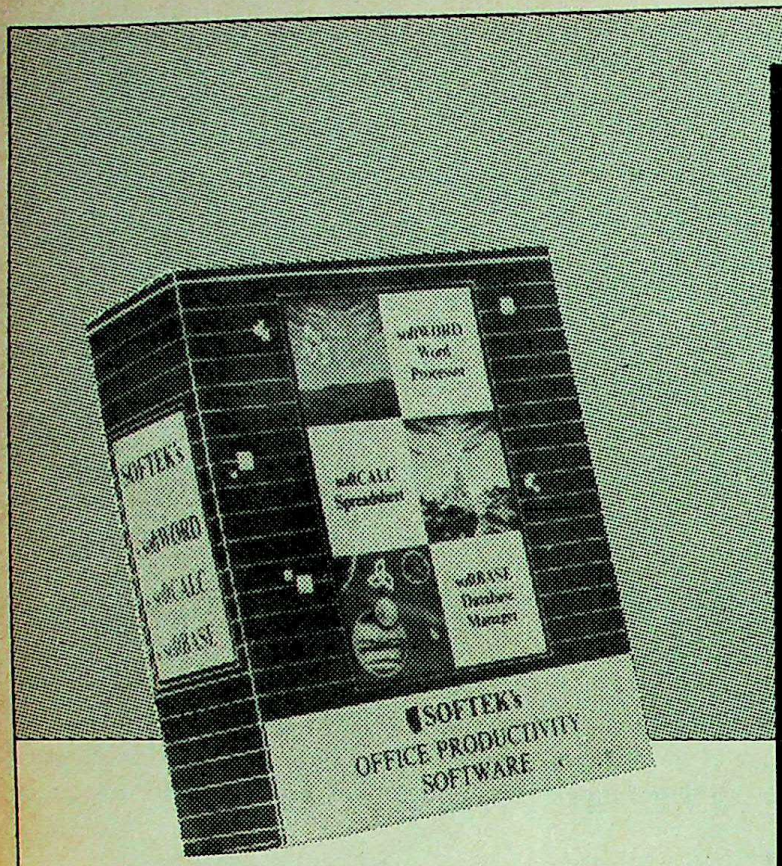
CG Informatics — Creating leading edge infotech solutions.

F.S Advertising/CGI/151/PCQ-2

Crompton Greaves Limited: DELHI: 8-E, Jhandewalan Extn., Rani Jhansi Road, New Delhi - 110 055, Tel: 3558237-38, Fax: 3558237 • BOMBAY: Kanjur Marg (E), Bhandup, Bombay - 400 042, Tel: 5793065-66, Fax: 5786201• CALCUTTA: 50, Chowringhee Road,Calcutta - 700 071, Tel: 229681-85, Tlx: 021-7824 • MADRAS: 3-A, Kadambakkam High Road, Tel: 8283257, Fax: 8250877, Madras - 600 034 • BANGALORE: "Lakshmi Mansion", 4/02, II Floor, 22 Cross, 8th Main III Block, Jayanagar, Bangalore - 560 011, Tel: 6647131, 6647029. Fax: 6647131, NW HQ: Tel: 648055, Fax: 6633801 • COCHIN: 300-6, Chrupushpam Bldg., P.B. No. 2506, Shanmugam Rd., Cochin - 682 031, Tel: 370860-62, Fax: 373738 • SECUNDERABAD: 4th Floor, Minerva House, 94, Sarojini Devi Road, Secunderabad - 3, Tel: 847270, 847090, Fax: 815831.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



SOFTEK

softWORD – Wordprocessor under DOS/LAN/UNIX

softBASE – Database Management Software under DOS/LAN/UNIX

softCALC – Spreadsheet Software under DOS/LAN/UNIX

combined they are the

SOFTEK OFFICE

The advantages of the advances within the familiar and user friendly

No office can afford to ignore the advances in computers and software. But sometimes the mastering of the new commands, building new applications and adapting to the new disciplines, takes too much time. The staff have to re-learn. Before the advantages accrue. Delays and sometimes chaos.

Lend your DOS tools the power of UNIX

Softek offers your office the easy way out. Complete office software which can place the advantages of UNIX at your command in less than a day. Minor source changes will enable you to move other applications also by using softBASE. Secure application now as UNIX controls access to your data and programms through its password protection mechanism.

Large multiuser applications are easily built using softBASE by moving your program sources. There are many Clipper extensions available.

Really complex reports can be developed without a program because the built-in development environment includes an editor with Online Syntax Checker, Screen Paint Utility and a sophisticated Report Writer. And also user defined procedures can be invoked to build reports interactively.

Then softWORD brings complete word processing to UNIX. Editing on the UNIX terminal is possible and easy. At the same time the total safety and the ability to share when necessary.

SoftCALC accepts Lotus work sheets directly on your UNIX system. With its abundant memory there are almost no limitations.

All you need to know is how to login. Once you are in, you will be back to your friendly DOS like environment.

It is because of all these advantages of using the latest advances within familiar environments and its commitments to continuously upgrade and enhance that large users like LIC, the Banks and SAIL have standarized on Softek.products.

Ask for a representative to explain the details in your office

Softek Limited
M 42 Commercial Complex
Greater Kailash II
New Delhi 110048
Ph. 641 5312/648 2681
Fax : 011-6482680

- 1301, Brigade Towers, 135, Brigade Road, **Bangalore** 560 025 Tel.: 080-221 3853
- Shyam Kamal 'A' 1st Floor, Opp. Railway Station, Vile Parle (East), **Bombay** 400 057 Tel.: 022-610 1147, 610 1170
- 237 Jodhpur Park, **Calcutta** 700 068 Tel.: 033-473 4137
- 3rd Floor, Raja Rajeswari Towers, 29-30, Dr. Radhakrishnan Sala, **Madras** 600 004 Tel.: 044-825 8804, 824 0971

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Solar System

This Microsoft Magic School Bus Explores series CD-ROM is superbly integrated, and packed with fun and information

CD ROM

Microsoft Magic School Bus Explores the Solar System. Multimedia CD-ROM for Windows 3.1 or Windows 95. Rs 1,900. RQS #E0128. A delightfully informative journey into space for children, with amazing graphics and sound, and a mix of animation, photographs and video clips from NASA, and a booklet that's a "passport to the solar system"—a neat little guide. Strongly recommended.

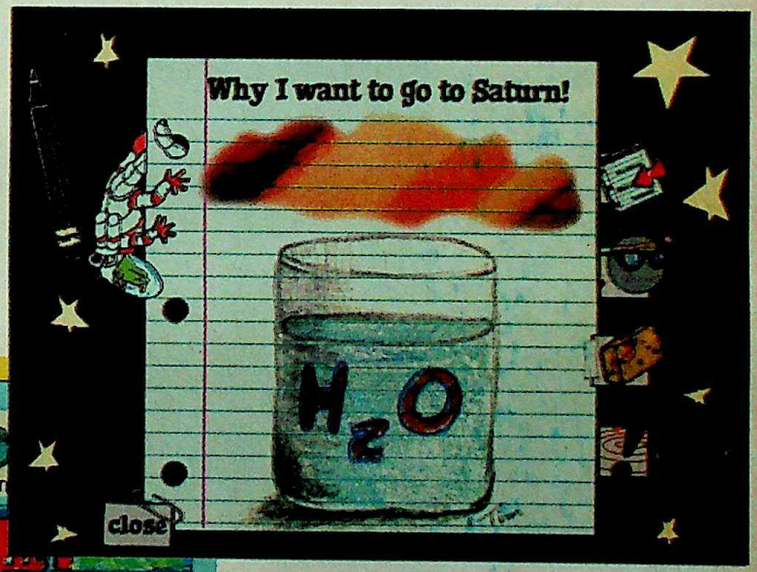
ancy a spin around the Solar System? Well, off you go, in Scholastic's Magic School Bus.

Meet Arnold, Tim and Liz and Ms zzle and the others from Microsoft me and join them in an interplanetary venture, travelling in three dimen-ns as you investigate planets and ons.

This superbly integrated CD-ROM ckage more than delivers the ventures it promises. You couldn't d the kids off on a better trip than journey into space. But first, in the ssroom, click on a planet picker to k up cool facts about the planets d Solar System. In fact, click ywhere and you'll find that something interesting will happen. The design is so fluid and interactive that if you were to click anywhere accidentally, you'd still get some action.

The real action, of course, is when you get on the school bus as it takes wing. In outer space, land on the planets, make designer rings around Saturn, with some help from the Clue Gauge, look for the Frizz who seems to be lost in space, play space games and have a blast with some science experiments.

Liz, a fairly friendly lizard, is always around to help. Sprinked with song, jokes, rhymes and rap, fun things to do, this should keep all kids and quite a few adults gainfuly occupied for quite a while. The CD-ROM comes with a "Passport to the solar system" for children to have fun with. The Passport tells you how to use the disk, and introduces the characters and the components of the game such as the Frizz Finder and the Whatsit. And of course, there's a map of the Solar System. And the lick-'em stickers. A thoughtful touch, that.



The graphics are amazing, and there's a perfect mix of animation, photographs and video clips from the NASA Jet Propulsion Lab. The sound is blended in with painstaking detail. An excellent addition to the kids collection.

MB

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The World's Greatest Classic Books

A library of classics on a single disk

CD ROM

Corel: The World's Greatest Classic
Windows 95. Rs 2,250. RQS #E0
A library of classical literary, philo
historical, scientific and religious te
CD. An excellent choice for book
despite its very American and E
classical content.

The World's Greatest Classic Books contains unabridged versions of works by poets and writers from Homer to Sir Arthur Conan Doyle, the writings of philosophers from Plato to Marx and Engels, the speeches of Lincoln, Cicero and Demosthenes, historical documents such as the Magna Carta and the American Declaration of Independence, scientific works from Hippocrates and Aristotle to Darwin and Freud, religious documents such as Sir Edwin Arnold's translation of the Gita, and the Koran and childrens' literature, such as Hans Christian Anderson's tales and Barrie's "Peter Pan".

The World's Greatest Classic Books is a Windows 95-only package. The main window has several components, such as a menu bar, a tab window, a toolbar and a viewing panel. The tab window has seven tabs: *Titles Catalog*, *Subject Catalog*, *Biographies*, *Portfolio*, *Find*, *Search Wizard* and *Past Selections*.

The first four options let you search for titles based on author name or subject matter, read your favorite author's biography, or access illustrations or video clips based on works such as "The Taming of the Shrew" and "Aladdin's Magic Lamp".

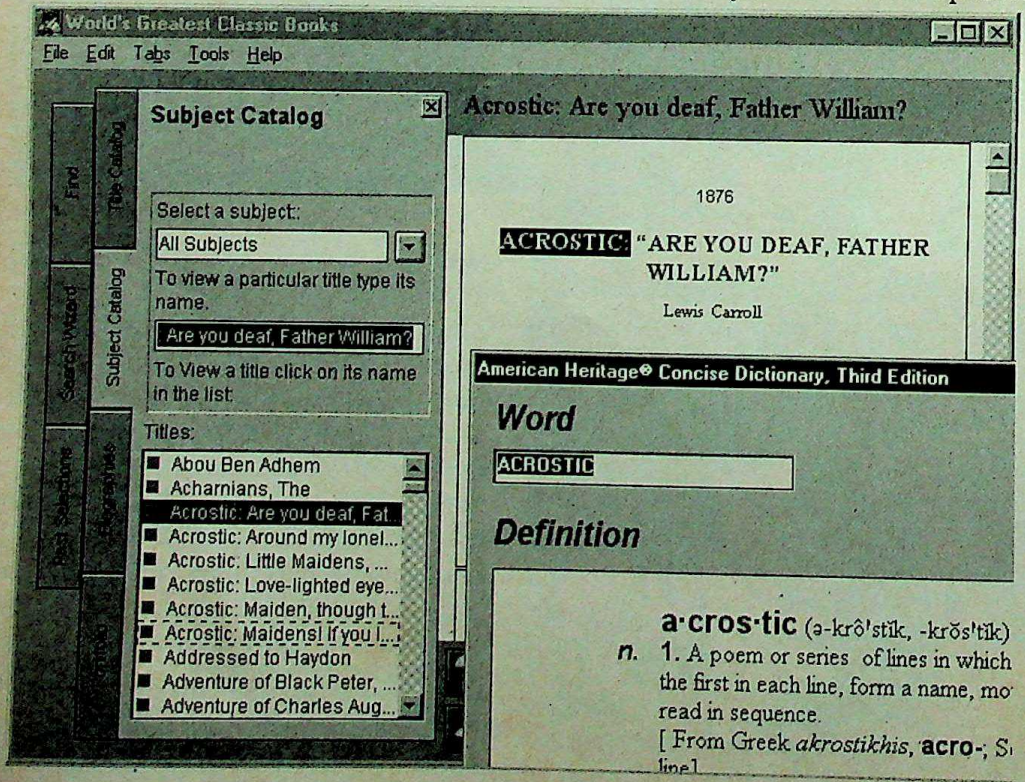
The *Search Wizard* helps locate words and phrases in selected texts. You type in the word or phrase you're looking for, and where you think it was written, the name of the writer, and so on. The *Search Wizard* will then get the information for you. *Find*, on the other hand, allows you to search specific literary works for words or phr

Each tab displays lists ba your selections, and the items lists are color-coded as follows squares indicate pictures from works, light green squares indica clips, olive squares indicate pic writers, dark green squares literary works and cyan squares authors' biographies.

The tab window can be mi thus enlarging the viewing pa can be enlarged.

The menu bar lets you additional functions. The buttons are the bookmark (*ver* when reading the "War and Pe "Anna Karenina" *genre*). A Go T gets you to whichever page y Copy lets you copy your passages to the clipboard. The context-sensitive help, anno dictionary option, a highlighter, an author-pictur and automatic scrolling. You course, print out the text; there link to external word processor choice.

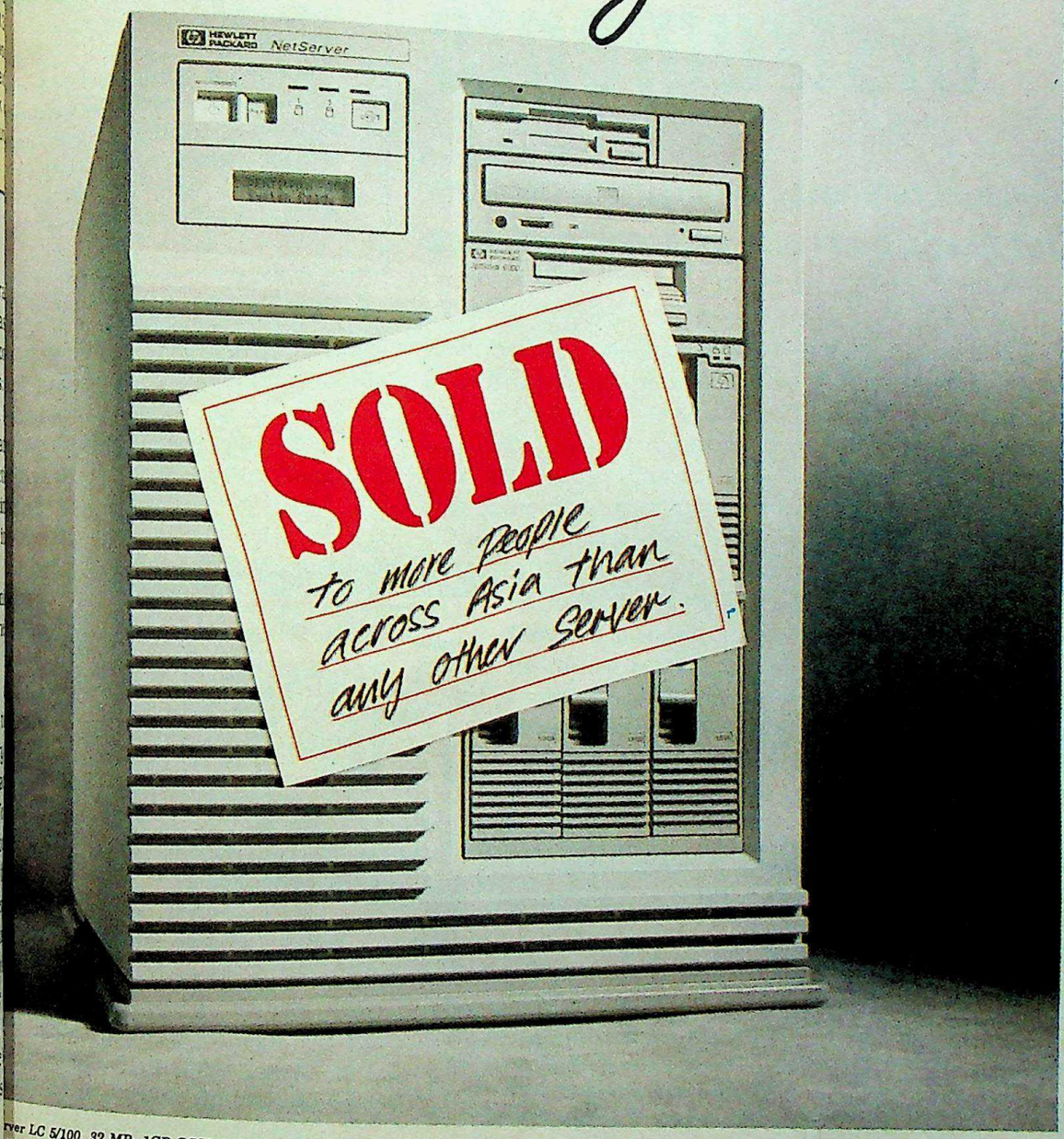
This title is heavily A in content; one of the 19th American poets, William Cullen is only too well represented, only a few of the works of B Tennyson, Burns, Shelley Eliot are available on this CD. be nice if Corel could give so space to non-American, mod women authors in future of this title (there are only Austen novels, and nothing by Woolf!).



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Give me the No°1 selling server!



HP Vectra XU 5/90, 16MB, 1GB SCSI, Quad CD, Monochrome monitor, 3 year comprehensive warranty (including 1 year on-site warranty).

rver LC 5/100, 32 MB, 1GB SCSI drive, Quad CD, with HP NetServer Assistant Ver. 2.2 Server Management Software, HP NetServer Navigator, built-in ment Monitor, 3 year on-site warranty - estimated street price Rs. 2,75,000 .

ange of Pentium® based sets industry standards, by world-class HP support a 3 year on-site warranty. r more companies across ic* are turning to HP NetServers to run their critical business applications. In addition, the HP Vectra XU also provides the ultimate performance for advanced business and technical applications. For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST at (011) 6226420** from your fax machine or touch-tone telephone, and request for document ID numbers 6315, 6346, 6352, 6370, 90248 and 90250.

intel inside
pentium PROCESSOR

HEWLETT PACKARD

tt-Packard India Ltd., Paharpur Business Centre, 21 Nehru Place, New Delhi-110 019. Tel : 6472311, 6472328-30.

ed Dealers :
MPUTERS LTD., Bangalore : Tel : 5586790. **Bombay :** Tel : 2834494. **Calcutta :** Tel : 408949. **Delhi :** Tel : 6912036. **Hyderabad :** Tel : 848336.
Tel : 4990829.**ELECTRONICS CORPORATION OF INDIA LTD., COMPUTER GROUP, Bangalore :** Tel : 2267082. **Bombay :** Tel : 4227492.
re : Tel : 2429181. **Delhi :** Tel : 609448. **Hyderabad :** Tel : 620483. **Madras :** Tel : 4349620. **GODREJ TRADING & SERVICES CO. LTD.,**
WLETT-PACKARD LTD., Bangalore : Tel : 2216487. **Bombay :** Tel : 2049663. **Calcutta :** Tel : 3596111. **Delhi :** Tel : 6846331. **Hyderabad :** Tel : 201876. **Madras :** Tel : 6257331.
rabad : Tel : 814525. **ZENITH COMPUTERS LTD., Bangalore :** Tel : 2264999. **Bombay :** Tel: 8377300. **Calcutta :** Tel : 4753872. **Delhi :** Tel : 6841147.
Tel : 4998074. **Secunderabad :** Tel : 812494.

nside and Pentium processor logos, Pentium and Overdrive are registered trademarks of Intel Corporation.
IDC Q195 PC server units shipments survey for Asia-Pacific excluding Japan. ☐ *Estimated street price. Actual price may vary.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Musical Instruments

CD ROM

Microsoft Musical Instruments. CD-RO
Windows 3.1 or Windows 95. Rs
RQS #E0133.

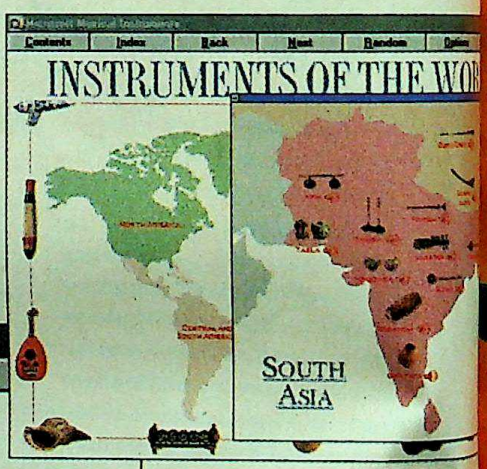
A comprehensive multimedia encyc
on musical instruments the worl
including a collection on India.
samples of famous pieces played
instruments. Highly recommend
music buffs and professionals alik

A delightful audio-visual reference on instruments from the world over, for music buffs and professionals alike

This one's as much for the serious music buff as it is for the budding musicologist or the music student. Musical Instruments is a beautifully designed reference work on CD-ROM, which is encyclopedic in scope and a veritable delight.

The world of musical instruments can be explored by selecting one of four different starting points: Families of Instruments, Musical Ensembles, Instruments of the World and A-Z of Instruments. Once you zero in on an instrument, you can not only hear what it sounds like, but zoom in on a picture to examine the various physical ports it is made up of. You get samplings of what the instruments sound like, almost invariably through famous pieces of music. Ensembles featured are orchestras, chamber music groups; jazz, pop and rock'n roll and heavy metal bands.

There are diagrams shoving the relative positions of different instrumental groups within an orchestra. Nor is the content unduly Western-biased. Instruments from all parts of the world, including India, are featured. The shehnai, the sit
mridangam, the tabla and the g
are some of the Indian instrum
came across on this CD-ROM. The
and graphics can, of course, be
out.



The smooth, non
maneuverability through
leaves little to be desired,
Windows interface is very
All in all, a great buy at a li
Rs 2,000. Compare this wi
such a lavishly color-illu
multi-volume printed encyc
would cost—many times m
you wouldn't get the audi
dimension. Expectedly, I
yet come across such a
reference work on the su
book form.

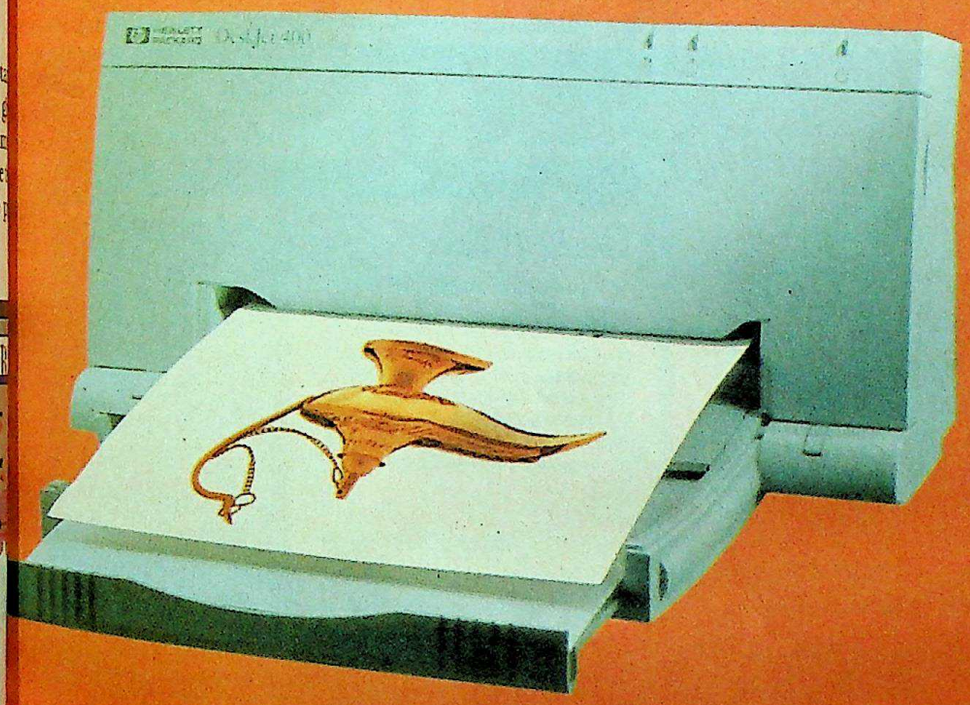
And try getting a book
the finale of Mozart's
symphony for you!

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Incredibly low price.
Colour capability.
Great print quality.

FOR JUST RS. 11,900*



Great quality printing

Rs. Rs. Rs. Rs.

Breakthrough price

HP ColorSmart technology

The HP DeskJet 400 unleashes the magic of world-class printing right on your desktop. For just **Rs. 11,900*** you get incredible print quality from a full-featured Desktop printer. You can even print in colour by simply adding a colour cartridge. And if that's not enough, you get the world leader's promise of quality, reliability and service. With the HP DeskJet 400 you couldn't wish for more.

For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST Fax Service on (011) 6226420** from your touch-tone telephone or fax machine, and request document ID number 90202.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

HP DJ 400 makes all three wishes come true.

*Maximum Retail Price.

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.

Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Madras : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Bombay : Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. • **Larsen & Toubro Ltd.,** Bangalore : Tel : 5511808. Bombay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. New Delhi : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. • **Pertech Computers Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi: Tel : 6446935. • **Redington (India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313. New Delhi : Tel : 6923224.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

M44 Bozell-HP-68-95

Digitized by Arya Samaj Foundation Chennai and eGangotri

The World Of Nature

A multimedia enclyclopedia for very young children, with the same elegance of the other Explorapedia CD-ROMs

CD ROM

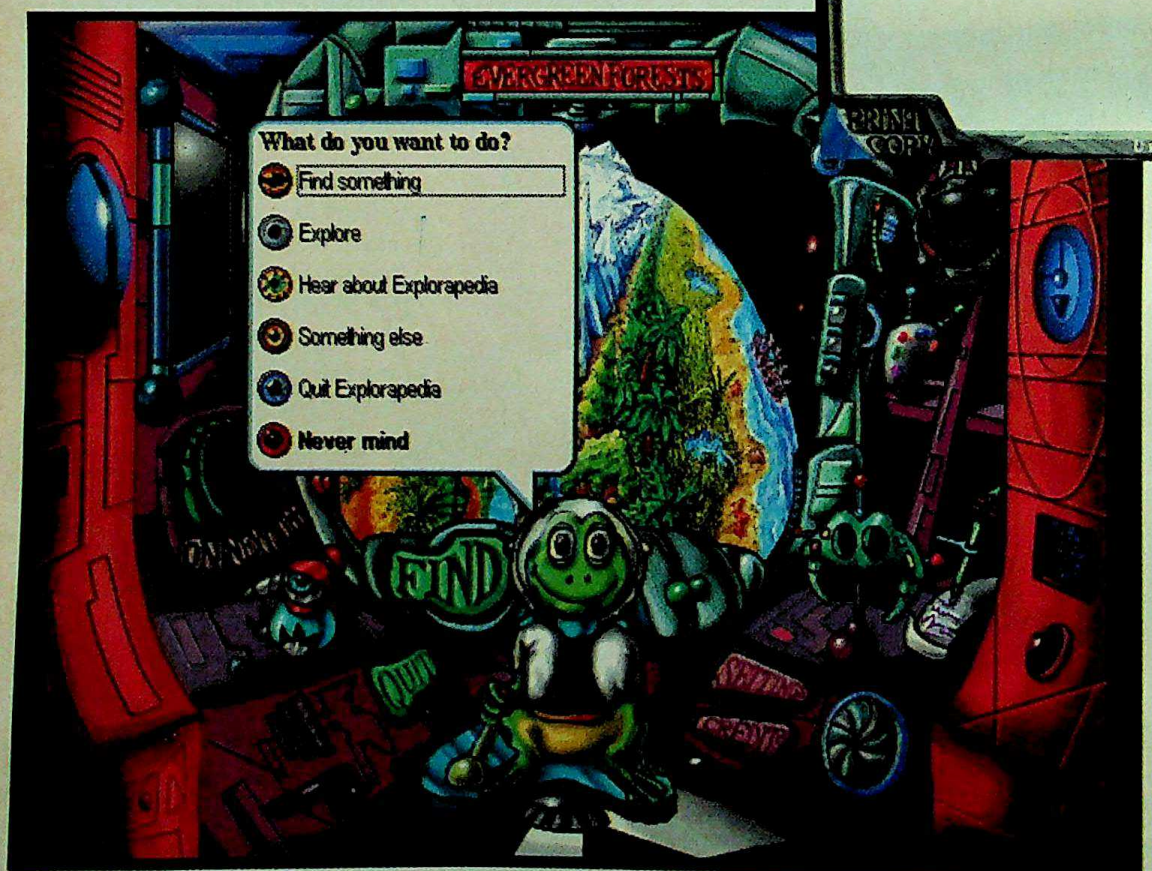
Microsoft Explorapedia: The World of N
Interactive CD-ROM for very young chi
Rs 1,330. RQS #E 0130.
An interactive "hitchhiker's guide to the g
for very young children, with an e
blend of fun and information on a sa
of things in the universe.

Tad is a freshwater Froganaut—whatever that is. He takes you around on his Frogship to explore the world of nature, in this colourful children's interactive encyclopedia.

When you're looking for something, you have several choices. One of them, quite simply, is to tell Tad what you want to know about. Pick the topic out of an alphabetical index or type a word. Then, you can choose a scene, a song, a video, an interaction or an animation.

Tad's Exploratron will take off to explore lakes and rivers, grasslands and forests. Information on related subjects can be called up. When the Play Mode is turned on, you can explore the scene you're in without going anywhere else with the Exploratron for a while. And when you get a tad tired of it all and want to do Something Else, you can take a break to play Wise Crackers, turn on the radio or watch the little television on the ship. Then there are Wise Visor p to do. You can also choose to c to your writing or painting prog

Every detail on this CD-ROM the Explorapedia series, has



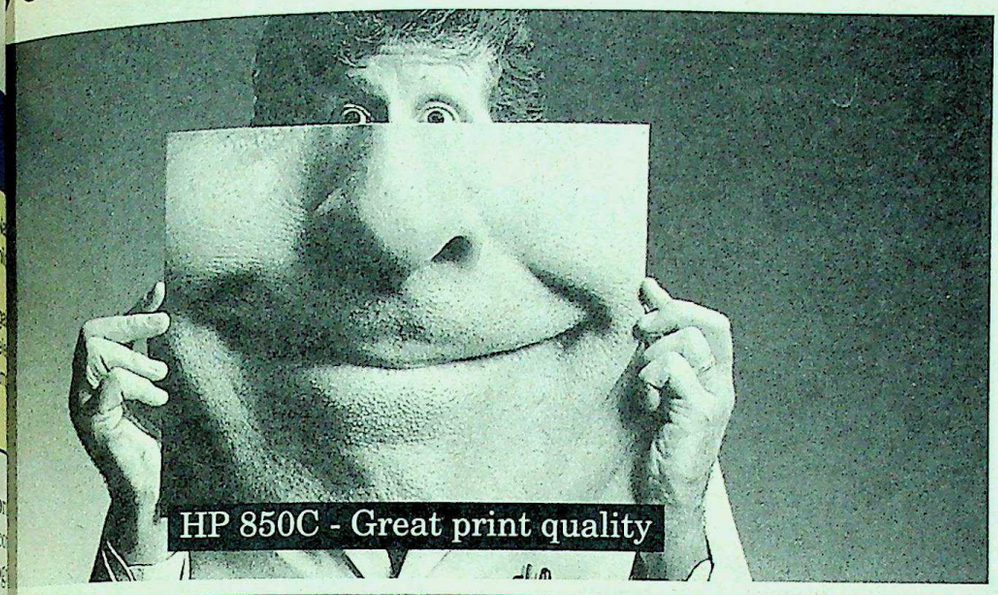
carefully crafted, maki complete world of g and animation. Setti mode, sound, narati the actions in a scene toggled. 4,000 text en brought to life with so videos, animation and graphs—and 18 ho sound. The age range children likely to Explorapedia, thou somewhat narrow an probability it won't ta long outgrowing it.

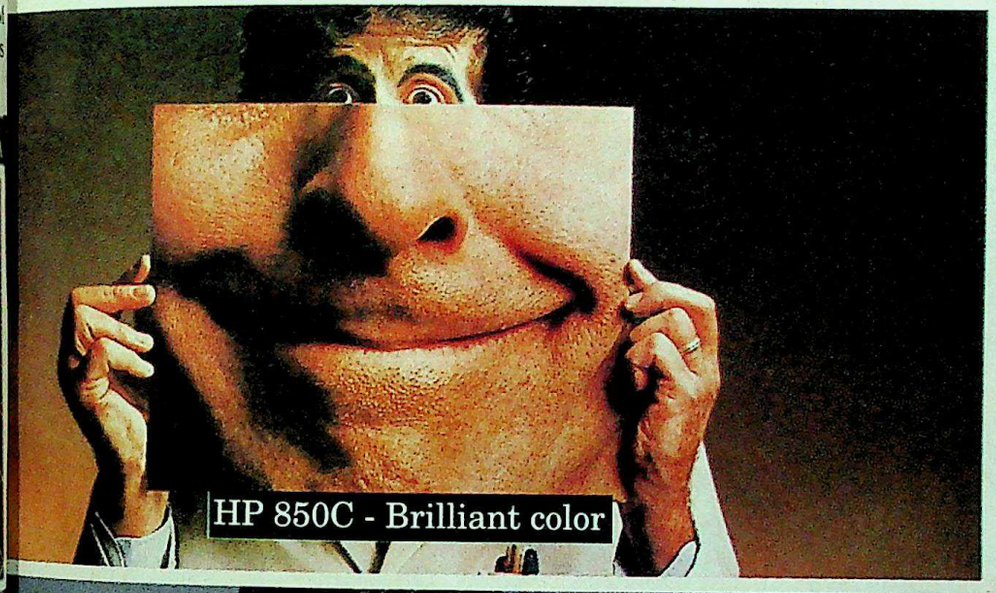
Overall, a delig integrated learning children.

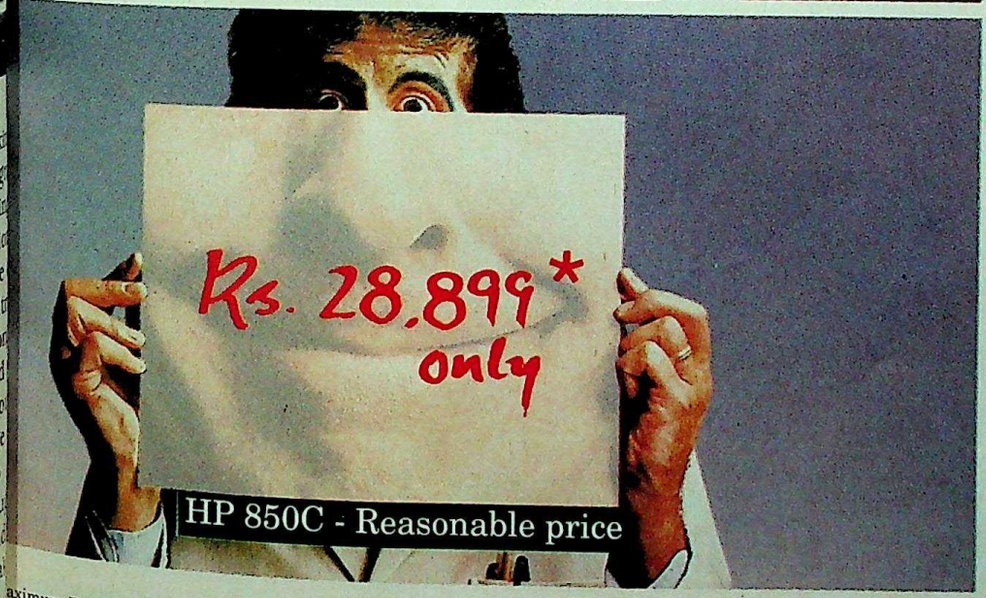
CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

With the HP DeskJet 850C, you'll have many reasons to smile.







aximum Retail Price.

600

Clear sharp
600 x 600 dpi black

HP ColorSmart
technology

DJ 850C

The HP DeskJet 850C certainly gives you a lot to smile about. It puts a professional touch to your black and colour printing at a speed that's as fast as a laser printer. Furthermore you get the legendary HP reliability and service. All this for just **Rs. 28,899*.** With the HP DeskJet 850C you'll be all smiles.

For further information, please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machine or touch-tone telephone and request document ID number 90300.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

wlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.
thorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505.
dras : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111.
derabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Bombay : Tel : 2626984.
lcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. • **Larsen & Toubro Ltd.,** Bangalore : Tel : 5511808.
mbay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. New Delhi : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore :
: 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. • **Pertech Computers Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485.
w Delhi: Tel : 6446935. • **Redington (India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 406747. Hyderabad : Tel : 819134.
dras : Tel : 2353313. New Delhi : Tel : 6923224.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

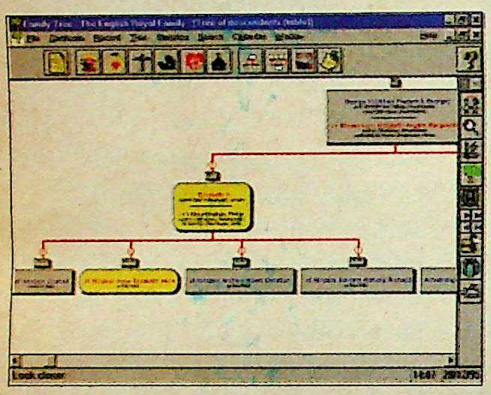
MAA Bozell-HP-72-95

Digitized by Arya Samaj Foundation Chennai and eGangotri

Family Tree

This is great for genealogists and families who want to track their lineage

The software is easy to use. It prompts for, classifies, and sorts ancestral details, starting. A detailed biodata format captures the information needed.



There's even a provision to create birth, civil marriage and religious marriage certificates—even death and burial certificates. You can subsequently click on the toolbar to add new children, edit records, change the tree's shape or customize the design.

Family Tree has interesting touches. You can attach text and photographs (bitmap files). Or get statistics about your family, such as the number of males or females, average number of marriages per person, number of children, and average life expectancy through an evolution graph.

An interesting and useful package for the home.

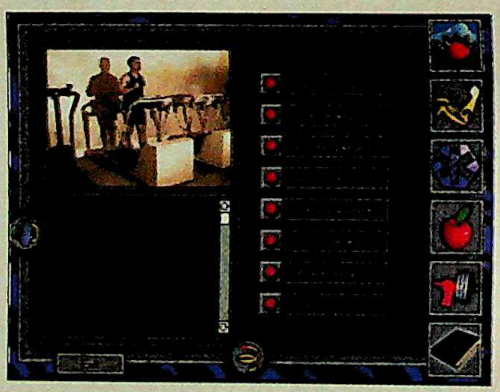
MR

Personal Fitness Trainer

Load this up, and you get jarred by a robotic monotone that drones out to you: "Main Menu". Luckily, Ms Monotone leaves you to your own devices as you get on with it. For the rest of the show...silence. *Some* multimedia.

This is a no-nonsense trainer. And a no-fun one. It is informative to the point of being clinical. You begin, logically enough, with health and fitness goals, a fitness questionnaire, and a test. You go on to anatomy and kinesiology, muscular, skeletal and other movements illustrated with short, barely animated clips. If you're Fonda vigorous aerobic videos...this ain't one of them.

However, you move on to a sports medicine section and then to nutrition. Next, the painstaking selection and design of your personal exercise routine from several options. It is not clear whether the book is an accompaniment to the CD-ROM or vice versa. In either

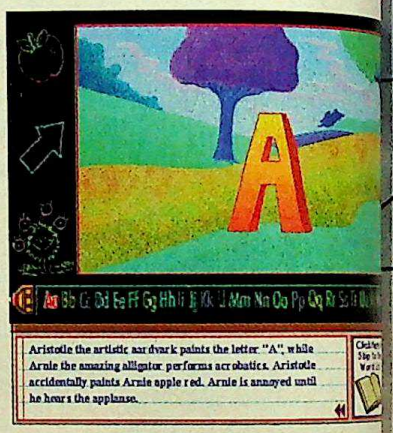


case however, this is one way of taking the fun out of well being!

MB

The Interact... Alpha...

The Interactive Alphabet uses ... of strange animal charact... introduce the alphabet to ch... rather like the Richard Scarry ... popular years ago. You can see its ... in sequence, or explore the st... each individual letter.



Every letter has a strange s... some amusing animation to go ... the letter "G" for example, tells ... of a ghost and a ghoul and the ... things they eat, and the letter ... the story of an opera-loving ... lived in an outhouse with his ... This, of course, makes each let... memorable for kids. After the ... read out, you can click on the ... and learn pronunciation... definitions for the 10 or so words ... list. The definitions are also a...

A neat teaching aid for 3-4 ye... who have just started learn... alphabet.

CD ROM

GSP Family Tree. Windows. An elegant, comprehensive package that lets you create a family tree easily, apart from birth and other certificates. Rs 1,500. RQS #E0145

CD ROM

BPB: Your Personal Fitness Trainer. A useful fitness training reference that's more book than multimedia. Rs 450. RQS #E0146

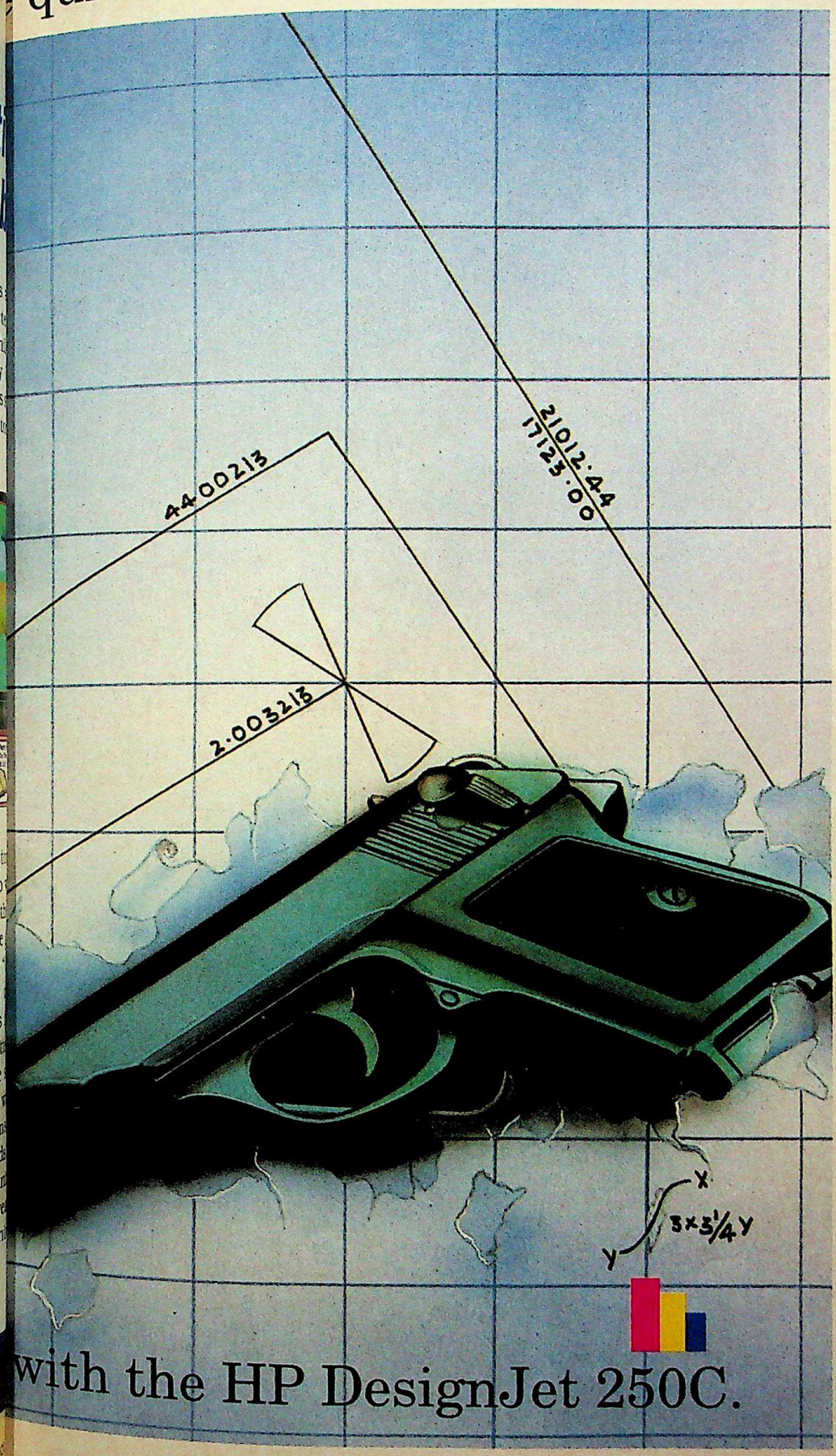
CD ROM

Corel: The Interactive Alphabet, Win... Mac. Uses animations and ... to teach 3-to-4-year-olds the a... Rs 2,250. RQS #E0147

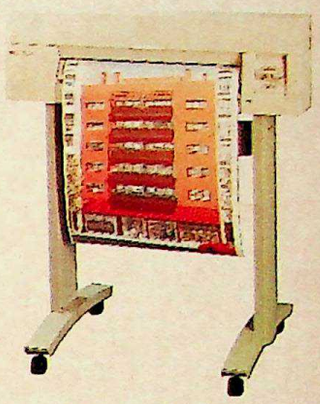
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

hatever you're Plotting,
quick on the draw...

Digitized by Arya Samaj Foundation Chennai and eGangotri



with the HP DesignJet 250C.



HP DesignJet 250C

When it comes to your plans and plots, you require a plotter that does it's job and let's you get on with your's. Presenting the HP DesignJet 250C, the plotter that brings you top-quality colour plotting, great speed and printing on plain paper too.

The HP DesignJet 250C let's you be quick on the draw, with D-size plots in under 3 minutes. With it's superior print quality (600 dpi monochrome and 300 dpi colour), and the HP reliability, all at an incredible price, you couldn't ask for more.

If your projects require only monochrome plotting, the HP DesignJet 230 is available at an even more down to earth prices.

For more information, please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machine or touch-tone telephone and request document ID number 90246 for HP DesignJet 250C/ 230.

HP Plotters.
Setting new standards.

HEWLETT® PACKARD

lett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.
orised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505.
ras : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111.
erabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Bombay : Tel : 2626984.
utta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 561732.
Delhi: Tel : 6446935. • **Redington (India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 406747. Hyderabad : Tel : 819134.
ras : Tel : 2353313. New Delhi : Tel : 6923224.

MAA Bozell-HP-73-95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Red Rhino

Poor Red Rhino has lost his red balloon, and you must help him find it. So click on any part of the screen where it may be hiding, and if you click on this balloon, you'll hear it say: "You've found me!".

Then there are all the other hot-spots. A click on Red Rhino can change his costume, from baseball player to police officer to paratrooper. Click on the clouds and watch them change shapes. Click on an aeroplane and see a parachutist emerge, or you can change the type of aircraft. Lots of things are "hot".

The activities section of this CD, as indicated by the crayon, is a "coloring book", where you can color your favorite pages using crayon-tools or "paint-jars", apart from eraser, washcloths, scissors, etc.

The menus use graphical symbols like books and crayons, or hand gestures for stop, quit, and so on. You can read the story (or have it read to you) in Spanish or English, and you can start reading from any part of the story.

DK

NN 'n N ToyMakers

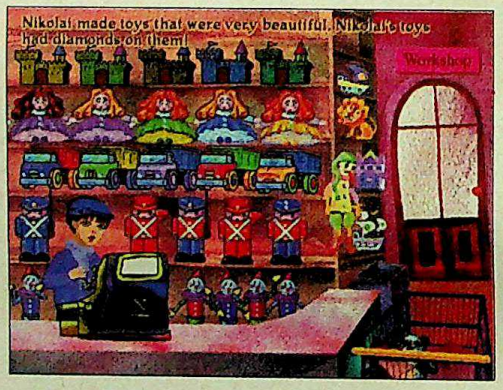
NN and N are two friends, NeowNeow the kitten and Nikolai the boy, who run a toy making workshop somewhere near the North Pole. They are very different people with very different working styles. Nikolai designs beautiful, durable and valuable toys, whereas NeowNeow makes toys out of rubbish that self-destruct in minutes.

One Christmas, Santa comes to their shop. He buys several toys from Nikolai and a large number from NeowNeow. After Santa leaves, Nikolai discovers that NeowNeow has disappeared...

Five-year-olds could learn to make bills, write and print letters, and watch the seasons change. Or change the temperature, and therefore NeowNeow's wardrobe.

You can either have the story read out, or explore it on your own. There are very interesting graphics, and lots of hot spots. Unfortunately, you can't access these while the story is being read out, because your mouse pointer keeps disappearing. An irritating bug—did NeowNeow join Corel?

DK

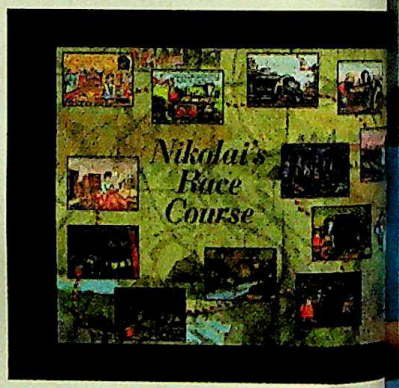


Nikola Tra

Another children's title from Home CDs. Nikolai and Neo race their trains against each oth 4-to-8-year-olds learn about th system, steam and diesel engine mines, the hydrological system a ecosystem. This is a bilingual C the story is told in English or Jap

NeowNeow's train uses a engine, while Nikolai's runs on They decide to race against each and, after an accident, the race be

There are "hot spots" all o place. If you click on Nikolai's b window, you can learn quite a bi the solar system. Click on a Nikolai's train, and you learn ab functions that part. Click on the e and you're told about steam an



engines. Children will love this C

This one has a better Explor than NN 'n N ToyMakers, ot there are few changes.

Although the jacket says th CD runs on Windows 3.1 a Mac, it didn't install at all on e worked well with Windows 95.

CD ROM

Corel: Red Rhino. Windows and Mac. Combines storytelling with a coloring book option for pre-schoolers. Rs 2,250. RQS #E0148

CD ROM

Corel: NN 'n N ToyMakers. Windows and Mac. Combines storytelling with writing letters to Santa, making bills, learning about seasons. Rs 2,250. RQS #E0149

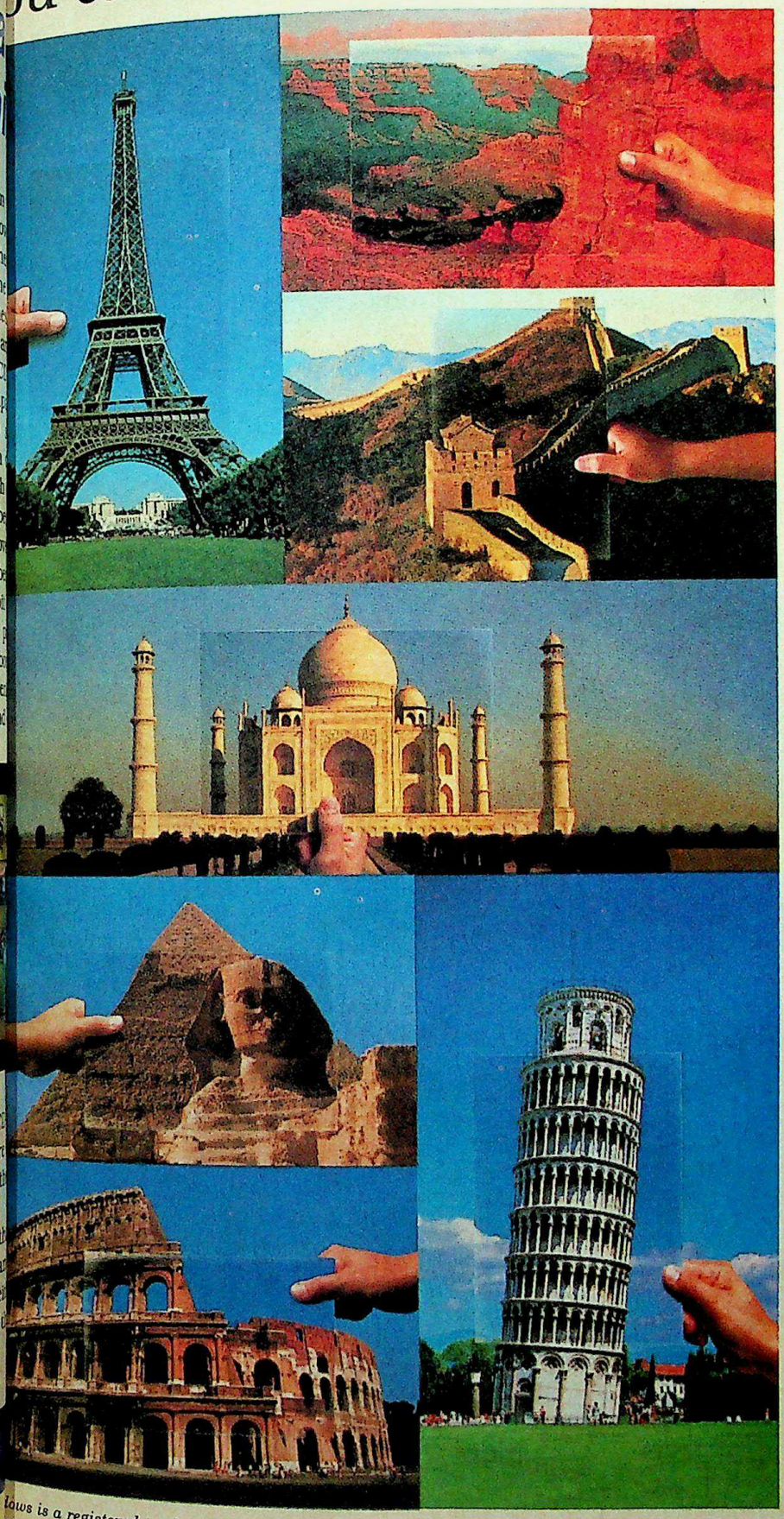
CD ROM

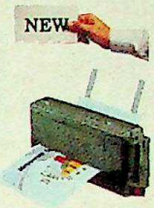
Corel: Nikolai's Trains, Windo Mac (see text). An educati fun package for 4-to-8-year-olds. R RQS #E0150

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

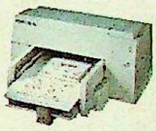
With HP DeskJet printers, you can create wonders.



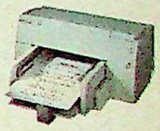


HP DeskJet 340
ID No. 90201

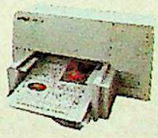
HP DeskJet 400
ID No. 90202



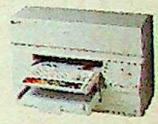
HP DeskJet 600
ID No. 90249



HP DeskJet 660C
ID No. 90191



HP DeskJet 850C
ID No. 90300



HP DeskJet 1200C
ID No. 2331

HP DeskJet 1600C
ID No. 90016

HP's wide range of DeskJets introduce you to the wonderful world of superb, life-like colour printing. HP's exclusive ColourSmart technology and Resolution Enhancement technology give you outputs that are a sight to behold. In addition, HP's advanced paper handling capability gives you great print quality on a full range of media.

What's more, all DeskJet printers are Windows® '95 compatible, easy to install and operate, and come with HP's legendary reliability and quality.

From networkable to portable, let HP DeskJet printers give you the world.

For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST Fax Service** on (011) 6226420 and request document ID numbers as indicated above.

HP printers.
The way the world prints.

HEWLETT® PACKARD

Windows is a registered trademark of Microsoft in the U.S. and other countries.

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.
Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Madras : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Bombay : Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. • **Larsen & Toubro Ltd.,** Bangalore : Tel : 5511808. Bombay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. New Delhi : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. • **Pertech Computers Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. Delhi: Tel : 6446935. • **Redington (India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 406747. Hyderabad : Tel : 819134. ras : Tel : 2353313. New Delhi : Tel : 6923224.

Maa Bozell-HP-066-95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Wild Board Games

CD ROM

Corel Wild Board Games, Windows and
Rs 2,250. RQS #E0141.
A fun tutor for the board games of
checkers, reversi, snakes and ladder
switch puzzles.

Wild Board Games is supposed to teach 4..10 year olds the rules of well-known board games—chess, checkers, reversi, snakes and ladders, and switch puzzles.

You begin by introducing yourself to Jack the rabbit, choose the game you want to play and where you want to play it (if you don't want to work on a puzzle). You can play in the basement, the attic, the kitchen or the backyard.

Your host for checkers is Morton the monkey, whereas Jack himself hosts the chess game. Help is easily accessible when you're playing a game (but if the video is on when you access help screen, your PC could hang).

You begin playing the game
your host asks you to take a han
click one of your host's hands
begin the game. To move a piece
on it, move your mouse where
want that piece to be placed, the
again. To find out where to mak
next move, click on a piece with
left mouse button and then click
your right mouse button to hig
the square to which you must
You could also go to the *Hints* b
instead of clicking on your right
button. Have fun!

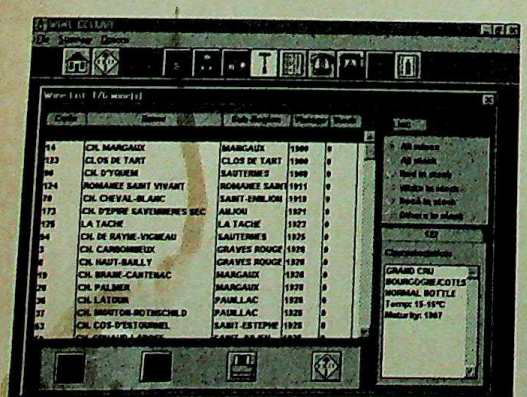
Wine Cellar

CD ROM

GSP Wine Cellar. Windows. Rs 1,50
#E0151
A wine catalog for the connoisseur.
listing of 176 wines, with details of
grower, vintage, etc. A bit drab,
visuals or audio.

This is a package for wine lovers—or for use in liquor stores, bars, hotels and restaurants. You can install the Cellar from CD-ROM or floppy, though from the latter it's limited to two installs.

The opening menu is a summary sheet of the options available and can be accessed from the toolbar, icons or function keys. The Cellar's best feature is the level of detail. You can update your wine list, or enter its name, the year of harvest, the region where the grapes were farmed, the sub-region it was grown in, the grower's name, the merchant you bought the wine from, as well as other contact details such as your supplier.



Wine Cellar comes pre-loaded with a list of 176 wines categorized into Red, White, Rose or others. It also includes 11 types of bottles for storage such as normal, Magnum, and Imperiale. Or you can display information sorted by wine, sub-region and year, in tabular form displaying the ideal storage temperature, the year of maturing, and the peak taste year.

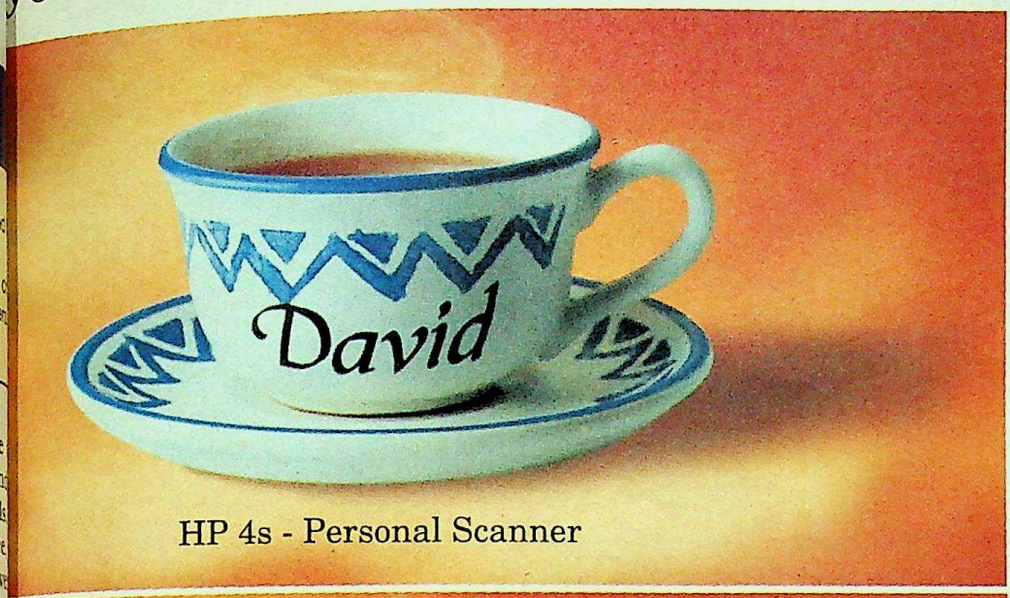
It maintains records of who
had wine with, what was preferr
how much was drunk. It also
update stock by prompting w
minimum is reached. The
conscious can look at records
many bottles were drunk betwe
two dates.

The package is aimed at
enthusiasts only—a tiny mino
India. The records can be updat
other drinks, but the details wo
rather out of sync. And finally, th
multimedia—just a structured
database.

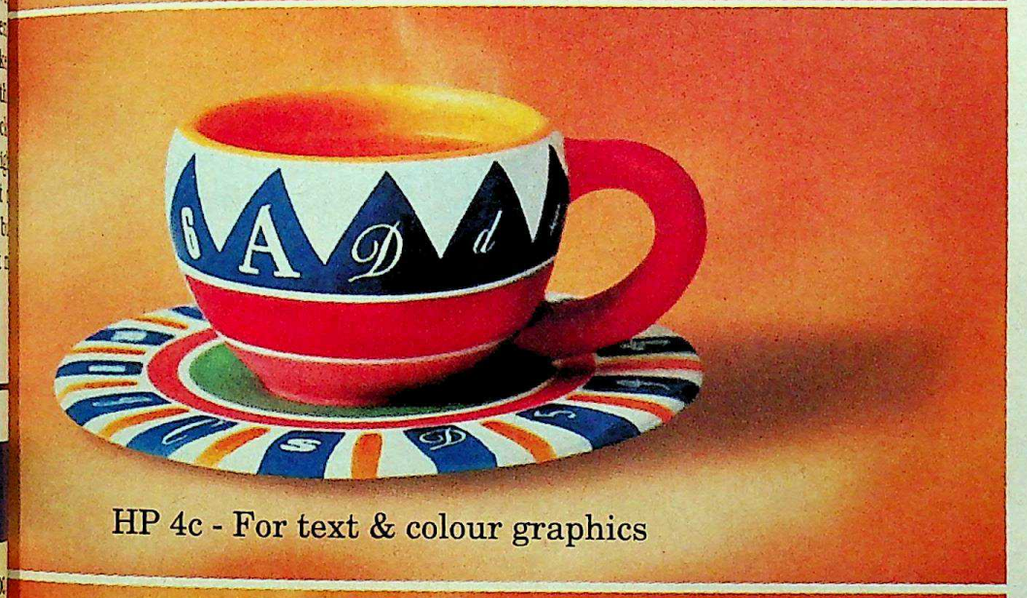
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

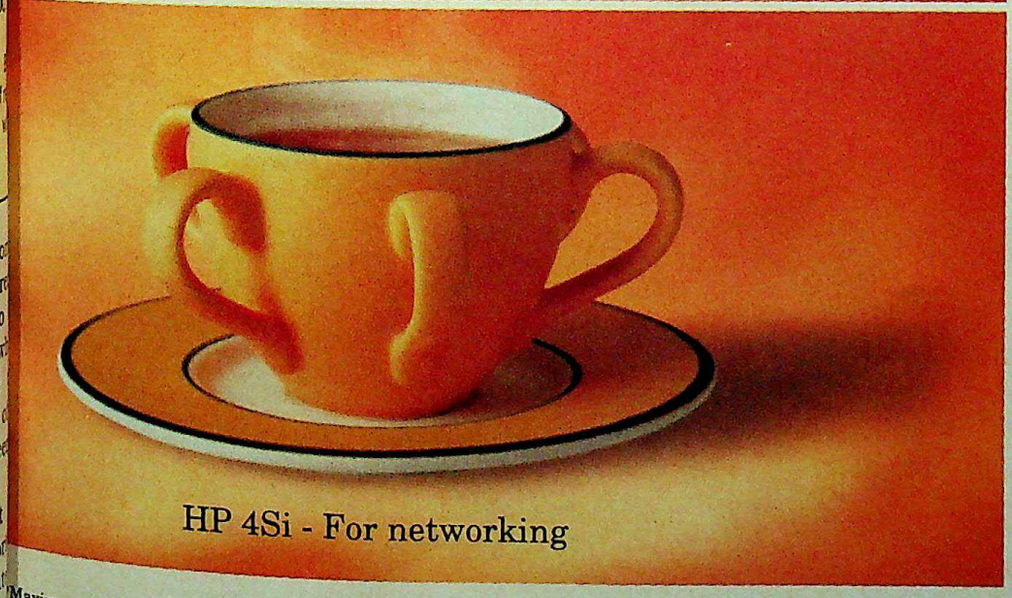
With HP's range of scanners, you'll find one that's your cup of tea.



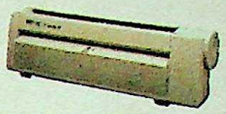
HP 4s - Personal Scanner



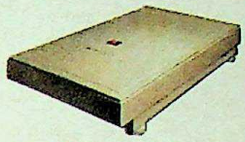
HP 4c - For text & colour graphics



HP 4Si - For networking



HP ScanJet 4s
ID No. 90210



HP ScanJet 4c
ID No. 90211

HP ScanJet 4Si
ID No. 90212

If finding a scanner that suits your taste is a problem, HP has some good news. Now, with our new HP ScanJet 4s, 4c, and 4Si, we have a range of scanners to satisfy every need.

Scanners for storing and sharing information. For high quality text and colour images. And networkable scanners too. The HP ScanJet range caters to a variety of tastes. Furthermore, all HP scanners let you add and edit text before sending it electronically. So, no matter what your preference, HP has a cup just for you.

And that's not all. Each product is backed by HP's legendary quality, service and reliability.

For more information, please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machine or touch-tone telephone and request document ID numbers as indicated above.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

Maximum Retail Price.

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.
Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Madras : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Bombay : Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. • **Larsen & Toubro Ltd.,** Bangalore : Tel : 5511808. Bombay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. New Delhi : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. • **Pertech Computers Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi: Tel : 6446935. • **Redington (India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313. New Delhi : Tel : 6923224.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Mas Bozell-HP-76-95

Digitized by Arya Samaj Foundation Chennai and eGangotri

Astro-Vision DigiSign

CD ROM

Astro-Vision DigiSign. CD-ROM for Wi
3.1. Rs 950. RQS #E0140
A package that uses Chinese astr
and numerology to analyse your perso
From Computer Services, Cochin (Te
347364).

A personality analysis based on Chinese astrology and numerology

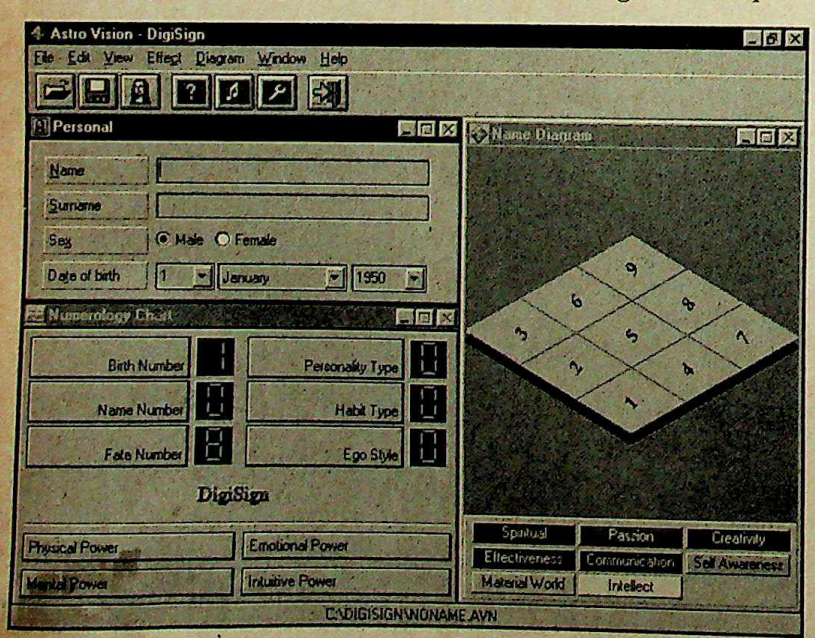
Okay, this isn't multimedia, and what we got at PCQ Labs wasn't a CD-ROM but a nice golden CD-R. But the company informs us that the final CD-ROM version is now ready. *And* it's an interesting application, with lots of potential in India, judging from all the reader queries we get for astrology software.

AstroSign is based on numerology and Chinese astrology. At one time, kings and other notables never moved a finger till their astrologers had assured them that the day and the hour would be propitious for them. Nowadays, of course, astrology and numerology are reduced to the level of party-time amusements for the sophisticated urbanite, except when they face ill-health or financial ruin, or are about to marry.

AstroSign works well with Windows 3.1. Once you set it up, it creates its own group, with icons for Chinese astrology, numerology and associated read-me files. You can click on any icon and start off.

Both *ChineSign* and *DigiSign* require your first name, last name, sex, day, month and year of birth. Once you enter this data, the programs begin to tell you all about yourself.

The signs in Chinese astrology are slightly different from the ones we're used to. For instance, all their signs, from the Rat to the Boar, are animals, and each animal influences those born in the year assigned to it. For instance, 1962 was the year of the Tiger, 1971 was the year of the Boar, 1975 was the year of the Rabbit and 1977 was the year of the Snake. Each animal's agent changes every 12 years, so if 1965 was the year of the Wood Snake, 1941 was the year of the Metal Snake. Both animal and agent are reputed to influence the lives of those born in that year.



ChineSign gives you the name of your sign and its agent. Then if you choose to view the report, you click on the *View/Report* button. You will get a description of the main characteristics of your personality, along with an analysis of how the combina your Western/Indian sign and Chinese sign works.

You will also be given a desc of your future in the years to com is the weakest part of the pr because it seems to show the future for everyone. The software ask you for your marital statu probably assumes that everyone 20 is married. So, you could be t you and your spouse would b house or set up a factory. Th changes that we noticed were tha users would be most successf percent) in the year of the Boa other users, maybe because t follows the Boar in the Chinese

DigiSign uses numerolo personality analysis. It uses you and date of birth and comes u certain single figures to indicate aspects of your personality, and an analysis based on those The analysis can make for int reading. You could also see *DigiSign*'s analysis matches wi you and your family and friend of each other. It was easier *DigiSign*, maybe because brea the analysis under various heads as *Ego Style*, *Personality Typ* makes it easier for the user to ass

Both modules allow you to list relations (these could be your and family) to see whether you and numbers are compatible You could, again, use you judgement to determine the accu the analysis.

Whether you believe in astrol numerology or not, this is an int program, and might even provid useful insights into your perso

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

There's a *stack* of good reasons to *choose* HP Hubs.

HP, inventor of the stackable hub, now brings you the next generation. As you can see, there are now even more reasons to make sure you specify the market leader HP.

The innovative, cost saving, new HP AdvanceStack hub is also standards based, and carries a lifetime warranty.

SPECIFICATIONS

- *Available in 12, 24 or 48 ports.*
- *Manage up to 784 nodes with a single managed hub up to 185 metres apart.*
- *Eavesdrop protection and access prevention security can be added with a management card.*
- *Can be connected to an external redundant power supply.*
- *Supports a range of media types including UTP, co-ax and fibre-optic with internal transceivers.*
- *Add bridge/routing and high speed technologies via the expansion slot.*

For more information, see your nearest HP dealer.

HEWLETT® PACKARD

lett-Packard India Ltd., Paharpur Business Centre, 21 Nehru Place, New Delhi-110 019. Tel : 6472311, 6472328-30.
1-6460907.
ized Dealers:
OMPUTERS LTD., Bangalore : Tel : 5586790. Bombay : Tel : 8340041. Calcutta : Tel : 293085. Delhi : Tel : 6912036. Madras : Tel : 4990829.
EJ TRADING & SERVICES CO. LTD., Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111. Delhi : Tel : 6846331.
: Tel : 6257331. HCL-HEWLETT-PACKARD LTD., Bangalore : Fax : 5584061. Bombay : Fax : 2622090. Calcutta : Fax : 401945.
Fax : 6436140. Madras : Fax : 8280765. ZENITH COMPUTERS LTD., Bangalore : Tel : 2264999. Bombay : Tel : 8377300.
a : Tel : 4753872. Delhi : Tel : 6841147. Madras : Tel : 4998074.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

StyleWriter 2200

An elegant portable color printer

SNAP SHOT

StyleWriter 2200. 80-col CMYK colo
Apple Computer (11- 4363030) Rs
(battery Rs 7,500) RQS #E0143.
A very elegant ultra-portable color p
Macs; can also work with Windo
through a serial cable.

This is probably the sleekest little color printer around: jet black, just over a kilogram, minimalist design, colorful Apple logo, and it slips into most briefcases. But just in case you think you aren't getting enough for your money, Apple packs in *five* floppies. Phew, I've installed *LaserWriters* off a single floppy.

Our PowerMac made short work of the setup, and, like most (but not *all*) Apple peripherals, it was plug-and-play all the way. When we left the cover open, or did anything else on those lines, the Mac would squawk and tell us not to do such things. We didn't get a serial convertor cable for a PC, but the setup and running processes should not be significantly different for Windows.

The print cartridge is tiny. Especially the *four-color* one, with CMYK (the basic one is a high-density black). But all this compactness also means fewer copies for your money: full-color printouts run to Rs 38 or thereabouts. You can also do transparencies.

You get a mains adaptor, but also buy an optional NiMH batter can do 100...200 pages on the n

The only distraction is so grating noise, when pulling in when out of paper. It could ha quieter.

Print quality is what you'd ex portable inkjet: line-art and tex good, the color is rich but rea half-tones are average. But fo sparkling color output on the one's a must-have for the Pc user.

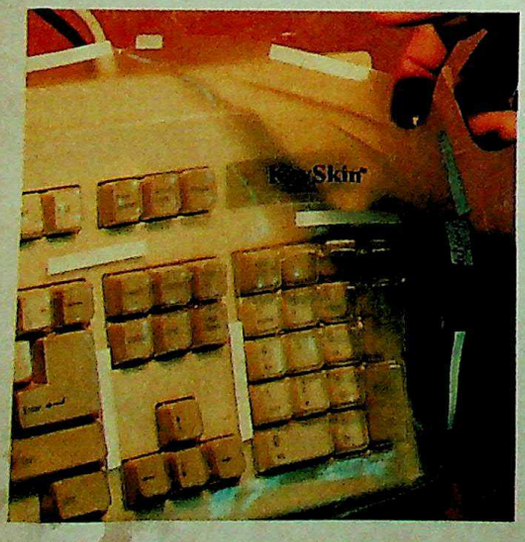
Keyskin

A thin membrane cover for your keyboard

SNAP SHOT

Keyskin keyboard protector. Compuc
Gurgaon. Rs 250. RQS #E0144.
This type-through plastic membrane
keyboard and protects it from d
liquid spills. Quietens typing, b
keys feel mildly stickier. Ov
effective; strongly recommende

Keyskin is merely a thin clear plastic membrane that fits snugly over a keyboard and its keycaps, covering it almost completely—you just type through it. If you install it properly, you protect your keyboard from dust, hair, cigarette-ash, coffee spills, and all the other junk that gets into your keyboard over months of use (just turn your own keyboard upside down and shake it, for a sampling of the dirt that gets in).



Keyskin costs you a quarter of the price of many keyboards. But it adds significantly to keyboard life. In over a year of use at PCQ labs (and in my home) the only keyboards that have remained totally trouble-free were the Keyskin-mounted keyboards—with those, we have our coffee and snacks while working on the PCs.

As the cover-box promises, it does quieten typing. Unfortunately, it also slows touch-typists down somewhat—I found the key action mildly sticky with Keyskin mounted. But I got used to it within a month or two Finally, a better adhesive alon edge—instead of those half sticky-tabs—would have helpe seal off the keys' area. Withou test units of Keyskin have yello curled a bit around the edges, result that we may need to ch Keyskin itself after a couple o

Over 90 percent of keyboard occur due to dust, grime a spills. For a minor one-time some inconvenience that you c to, you can save yourself tha Effective protection, for keyb both homes and offices.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

VORD IS OUT.
HE WORD IS OUT.
THE WORD IS OUT...

...Why would PC Computing at Comdex /Fall 95 vote Word Pro 96 for the "Most Valuable Products Award?"

Hands down, no questions asked, rd Pro's Team features are the best in business," says ***PC Computing.***

Power for Individuals

Breeze through everyday word processing tasks with Lotus Word Pro 96. You have all the tools you need to go from inspiration to fully polished document -- and you can do it faster and easier than ever before.

For instance Graphical "click here" blocks show you exactly where to place text. Lotus Word Pro 96 even offers spell checking and correction as you type! After 20,000 hours of usability tests comes the Lotus InfoBox, which provides formatting in a flash, with all changes displayed in the document as they're made.

In short, everything about Lotus Word Pro 96 is designed to help a writer concentrate on writing, while still producing visually compelling, professional-looking documents.

Productivity for Teams.

Now you can create, review, and edit shared documents with ease. No more circulating documents electronically with little control over how your editors mark up a document. No more trying to reconcile multiple marked-up copies. Lotus Word Pro 96 changes that process forever.

You have complete control over the editing rights of each team member. And Lotus Word Pro 96 gives your editors a completed set of flexible mark-up tools, including a Highlighter pen with custom colours, red-lining, and even electronic "sticky notes," which allow editors to comment without actually editing the document. Then, use Team Consolidate see and review everyone's edits on-scre simultaneously and quickly combine all t best ideas into a single document. That's real time-saver!

This ability to keep everyone involv without surrendering control of your writing makes Lotus Word Pro 96 the ideal word processor for how you work today.

Integration and communicati

Sitting in Word pro you can edit and create HTML documents on the Intern Conversion filters with read/write facili for Word Perfect, Microsoft Word and DCA/RFT files. Single click access to cc : Mail and Notes.

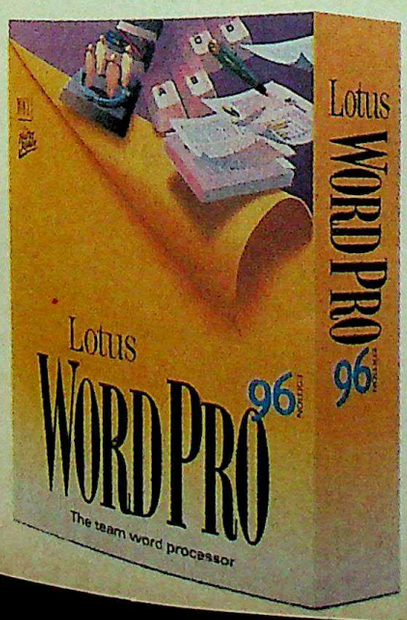
Rs. 4750 special offer: Two for one

Lotus WORD PRO 96

The team word processor

(Buy one, get one license free)

For Word Pro 96 Special Offer, contact ITC Ltd, or your seller.



Lotus

India Liaison Office,
New Delhi.
Ph: 6118140. Fax: 6882543

ITC

ITC Ltd., Information Systems Division;
Bangalore Ph: 2278372, 2279854. Fax: 2214345
Bombay Ph: 2852850, 2043261 Fax: 2855815
Calcutta Ph: 292357 Fax: 2452254
Delhi Ph: 6882556, 6110277. Fax: 6872893

Word Pro 96. on Windows 3.1, and Windows 95. Soon on OS/

All trademarks are the property of their respective owners. Lotus Development Corporation is an IBM subsidia
The product is also available without the special offer.

THE WORD IS OUT..

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Smart Label Printers

Two handy, specialized printers for all kinds of labels, from addresses to bar codes

For all those who've spent hours adjusting label forms in dBASE for a dot-matrix printer, this is a smarter way of doing it.

These two little printers are specialized: they only do labels. But *all* kinds of labels, for envelopes, binders and diskettes, and bar codes and shelf tags. Both these models, the basic EZ30 and the SLP Pro, have a simple, fuss-free design.

Despite 14 pages of user-guide instructions, both SLPs set up easily. The serial cable has a thoughtful touch—there's both a nine-pin and a 25-pin connector on the same end of the cable. The other end of the serial cable is even stranger—an RJ11C telephone-type jack!

The software sets up easily from either DOS or Windows; it checks your ports (sometimes misreporting a mouse port as "available"), and installs itself. You can choose to load up the DOS part as a memory-resident program (in which case some care with configuration needs to be taken to make sure the printer works comfortably with other apps' hotkeys).

Creating a label is easy. Select a format from the available Smart Label icons, or create one and type in text. You can choose from among SLP's fonts (including a bar-code font) or use SLP's font utility to bring in a True Type font. You can mix fonts in a label. There's WYSWYG centering for accurate positioning. You can capture, cut, paste, resize and trim graphics. The SLP supports vertical printing. It also supports bar codes—and, of academic interest to non-US-residents, US Postnet codes.

Printing an ordinary address label using one of SLP' EZ30's own fonts took me some 10 seconds from first click to final output in the high quality mode. The high speed mode for this process took...well, about the same! Adding a captured graphic to the address and enlarging the font pushed the time up to 30 seconds.

Other than the edit window, SLP will print labels from a database, including selected addresses. You can use its own database or mailing list, or import from other databases exported to delimited text. SLP imports addresses from other files if the data is in text format. Labels can be assigned to Business, Personal, or user-defined categories.

You can also print directly from any Windows app. A Smart Capture with grab any text that meets the criteria for an address, and will let you edit and format it before printing. Copy option will let you capture copy a bit of text, whether it's a dress or not. Express Capture will ture and print without displaying SLP window. All these features are capsulated in a capture button you can keep around handy while ing in other applications.

The labels are thermal and available in several sizes, though what you most easily able to lay your hands the standard 1.1" x 3.5". You have place an order for other sizes. The bels turn out smudge-free. The paper means no ribbon required also that the labels will fade in ab

contined on p

The EZ30 takes an easy-loading roll of thermal-paper adhesive labels, which are also easy to tear off.

THE SPECS

PRODUCT: Smart Label Printer EZ30 Smart Label Printer Pro. Printers for dress, disk/binder, bar-code, and labels. Thermal paper; no ink/ribbon and Windows support; Mac version able. In addition, the SLP Pro prints and at higher resolution, and supports label sizes.

FEATURES: Prints from its own Windows utilities or from within Windows apps; can import delimited files from other databases. Various including bar-code; true-type suppo WYSIWYG printing of horizontal or ve labels, and mixed fonts, with auto or tom positioning. Prints bar codes graphics.

PRICE: EZ30 Rs 9,000
SLP Pro Rs 14,500

SUMMARY: Two compact printers for cialized label printing; very easy to Supports multiple fonts, DOS/Windo bar codes. The Pro is faster and q and more versatile. Good for small-t dium scale label requirements; expe and slow for mass mailing.

MANUFACTURER: Seiko Instrume

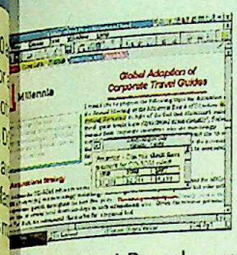
VENDOR: Wipro Ltd, Peripherals Divisi

Reader Query Service #E0137

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

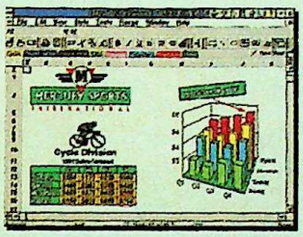
SmartSuite 4.0



Write It. Lotus **WordPro**

" If you're working with lots of people who are adding to, changing, and reviewing documents, this is your new Team word processor. Hands down, no question asked, Word Pro's Team Mail, Team Review and team Consolidate features are the best in the business." ***Ziff Davis Interactive,*** / 95. Word Pro; the award winning word processor.

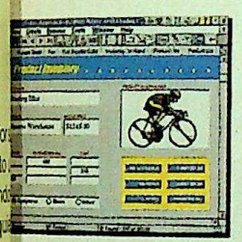
lyse It. Lotus **1-2-3**



fining spreadsheet productivity with the d's most popular spreadsheet. Analyse, format, query, publish your spreadsheet data more than ever before.

ent It. Lotus **Freelance Graphics**

e simple steps take you from an initial idea to a great presentation. There is no faster or easier way to create professional, stunning presentations.

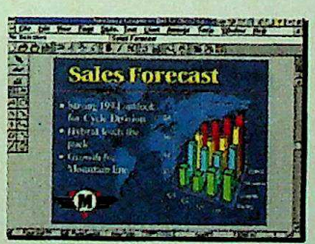


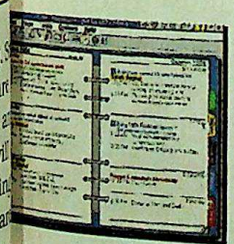
File It. Lotus **Approach**

It is now simple for anyone to build a database and access the important data using Lotus Approach. With this new database users become productive within just 2 hours.

anise It. Lotus **Organiser**

ging your time and work is now easy and enjoyable. Lotus Organizer looks just n on-screen diary you probably already use. list, Address book, Calendar, plus much more.





Record It. Lotus **ScreenCam**

For windows is a multimedia screen and sound capture utility. It is designed to enhance learning and informal day to day communication by enabling users to record, distribute and play back screen movements and sound.

martSuite 4.0 Special Cross-Grade Offer, contact ITC Ltd., or your reseller.

Lotus

India Liaison Office,
New Delhi.
6118140 Fax: 6882543

ITC

ITC Ltd., Information Systems Division;
Bangalore Ph: 2278372, 2279854. Fax: 2214345
Bombay Ph: 2852850, 2043261 Fax: 2855815
Calcutta Ph: 292357 Fax: 2452254
Delhi Ph: 6882556, 6110277. Fax: 6872893

uite 4.0 on Windows 3.1. SmartSuite 96 now on Windows 95. Soon on OS/2

marks are the property of their respective owners. Lotus Development Corporation is an IBM subsidiary. The product is also available with [illegible]

SmartSuite 4.0

The desktop solution for you and your team

Rs. **8450**
Special Cross-Grade Offer

Eligibility

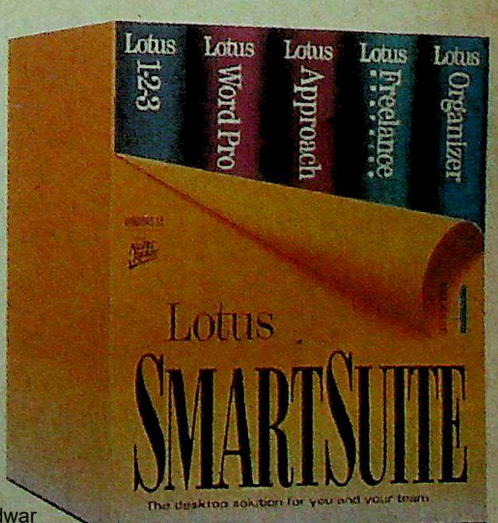
This offer is valid for licensed users of ANY desktop software package. Please specify your package and registration number in your order. Offer valid till March 31, 1996

Lotus SmartSuite 4.0 contains five, award winning applications created to work together.

Whether you work alone or in teams, NEW Lotus SmartSuite 4.0 brings you five hard-working, easy-to-use applications in one integrated desktop suite. All this for the special price of just Rs. 8450

Lotus' team computing mantra resonates throughout the Windows 95 version of its SmartSuite.

PC Week Labs, 30/10/95



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Total Protection

SAFEPOWER COMMANDO

UNINTERRUPTIBLE POWER SUPPLIES

- **LINE - INTERACTIVE RANGE**
- **280 VA, 425 VA, 650 VA, 800 VA**
- **UPGRADABILITY UPTO 650 VA**

This new range of UPS comes to you from the makers of SAFEPOWER INTELLIGENT & SAFEPOWER SLIMLINE. The entire Safepower UPS range comes loaded with features.

- 150 V - 275 V input voltage range
- Long inbuilt battery back up
- Power-fail warning & automatic shutdown with Safeware Lite (optional)
- Competent service team to provide the full level of the pre-announced service options.

SAFEPOWER INTELLIGENT is an off-line range and comes in 500 VA, 1000 VA & 1400 VA.

SAFEPOWER SLIMLINE with its sleek looks is line-interactive & comes in 650 VA.

SAFEPOWER IS ALSO AVAILABLE AT ALL COUNTERS OF HCL FRONTLINE LTD., DELHI.

AJMER : 423453 / 423542 ALLAHABAD : 608374, 600301 AMRITSAR : 548392 CALCUTTA : 724865 / 726733
CHANDIGARH : 706175 CUTTACK : 614292 DEHRADUN : 657119 GHAZIABAD : 754851 GWALIOR : 322911
JAIPUR : 621471 / 563097 JALLANDHAR : 271872 / 3 JODHPUR : 37586, 21822 KANPUR : 214039, 296302
KOTA : 421247 LUCKNOW : 218351, 78643 LUDHIANA : 456891 MEERUT : 540874, 540894, 642012
RANCHI : 205360 UDAIPUR : 526987 VARANASI : 351133, 355288

RADIA
POWER SYST
PRIVATE LIM

84, Khijrabad,
Friends Colony,
Delhi - 11
Ph.: 6835523, 691
6918908, 6911566
6918908, 683

BECOME A SAFEDEALER TODAY. BECOME A PART OF ACTION.

ANDY DIREC

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Year 2000 Date Problem

ow a tiny two-digit problem a billion lines of code will ring apps to a halt four years ter

The Year 2000 date problem begins with how we all think about the year. Look in your wallets—at the piring dates on your credit cards, ivers licenses; look at your birth dates those documents, and perhaps on ur passport. Most of them use two gits for the year. When businesses gan to use computers in the 60's and 's, they carried this way of thinking to computers.

Computers were expensive, storage ace was scarce. Why waste valuable mputer resources storing information at would not change for thirty years? hy store the "19"? Just store the "55". , we told the computers I was born in , and not 1955. So what? Well, if I ask e computer how old I am, it must do a te calculation. It subtracts 55—my th year—from 96—today's year. And ays I'm 41 years old. So far, so good. the year 2000, if I ask the same estion, it'll do the same calculation. l subtract my birth year, 55, from 00, d it'll say I'm minus 55 years old.

Consider the interest calculations a nk must perform on bank accounts. 's say you deposit $100 into a savings count that pays 5 percent interest nually. Next year, in 97, you want to e your account, so the bank must culate what it owes you. The computer s the following: your money was posited in 96 and taken out in 97. It s therefore in the bank for (97 - 96) rs—in other words, one year. At 5 cent, that's $5 interest.

What if you don't take that money out l the year 2000? The computer will do the calculation the same way. Your money was in the bank from 96 to 00. That's 00 minus 96. That's minus 96 years at 5 percent. That's a little bit more than $10,000, and because of the minus sign, it's going to subtract that amount from your account. You now owe the bank $9,900. It does this automatically. There is no human intervention.

So what's the big deal? How difficult can it be to add in the two missing digits? Actually, to fix any one particular line of code is a trivial exercise. Any programmer

can do this. You basically have three choices, if a line of code contains an incorrect date calculation. First, extend the field from two to four digits. Or, create a new field to indicate the century—so you might use a zero or a something to indicate which century it's in. Or, you might use some date logic to determine what the century must be, for that particular piece of information. Minor technical changes. The trouble is, many companies have more than 50 million lines of code.

If a programmer could change a line of code, test it, make sure it works, in a single second, and if we assume an eight-hour work day, five days a week and fifty weeks a year, that programmer will be working on this project for the next seven years.

The problem is even more complex than that. For your systems are interrelated. Your accounting system feeds information to your inventory system and to sales forecasting systems. Inventory is tied to purchasing, sales is tied to commissions, commissions is tied to employee benefits, employee benefits are tied to your pension schemes. All your systems interconnect. Where do you start? What do you fix first?

And what about your software vendors? When will their systems be ready? Will their solution match your solution? Can you start fixing your system before they fix their system?

This is, without doubt, the largest management challenge most people will face in their lifetimes. And it is unique, in that the deadline cannot be moved or missed. And it's also unique in that we all share exactly the same deadline.

This is not a technical issue. We know how to fix the line of code, but we've never had to coordinate the fixing of 50 million lines of code across all the systems in a single organization in a period of time less than 3 years, because it must be complete by 1999, so that we can test the millions of changes that we've made.

This is a worldwide management project. And part of the task facing us is pure awareness.

In a September 1993 article, Peter de Jager had described how the "Y2K" problem could trigger fatal errors in mission-critical systems. The above is excerpted from a talk by him on an IBM conference call on October 30, 1995.

de Jager has set up a Web site for making information available about the problem and for the discussion of possible solutions (http://www.year2000.com/). You can also subscribe to the Year2000 mailing list—send an email to listmanager@hookup.net with the text SUBSCRIBE YEAR2000 in the body of the message (not the subject).

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

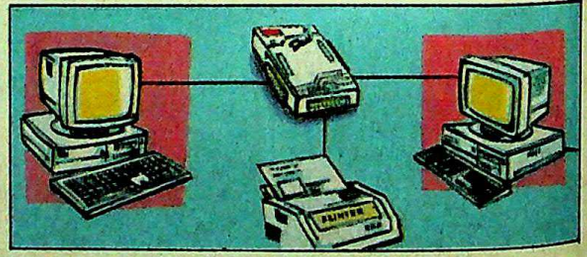
Digitized by Arya Samaj Foundation Chennai and eGangotri

GUESS WHAT THE COMPUTERS SAID TO THE PRINTER ?
LET'S DUET

Duet is the first world class auto data switch designed and manufactured in India. All Duets come to you with a **I Year Unconditional Warranty** and are guaranteed to work on all the latest software and hardware. The Duet is also the only data switch which can support connections upto a distance of 10 metres.

Duet helps you save money and time because it is the best way for two computers to share a single printer – automatically. There is no external power supply and a special circuit prevents locking if one PC is off.

Finally Duet is brought to you by San Telequip, one of the most respected names in networking, reputed for their technical expertise and quality products. Visit your nearest dealer and pick up a Duet. Today.



SAN TELEQUIP
PRIVATE LIMITED

F-7, Paresh Industrial Complex, 45/2, Shankarsheth Road, Pune-37, (MAHARASHTRA) Tel : (0212) 655970, Fax : 642996.

AUTHORISED DEALERS • **Ahmedabad:** Kone. Tel. 466895, 425691 • **Aurangabad:** Mainframe Computers. Tel. 333120, 333171. • **Bombay:** Crystaline. Tel. 5690472. Lalwani. Tel. 3821054, 3872403. • Electronics. Tel. 331612. • **Bangalore:** Savim Technology. Tel. 3304236. • **Bhopal:** Pearl Mktg. Tel. 588748. • **Bhubhaneshwar:** Oricom Systems. Tel. 400343. • **Calcutta:** Eastern Computell. Tel 272714, 276-Skope. Tel. 6421039. • **Hyderabad:** Forward Technologies. Tel. 850601. Computer Den. Tel. 813303. Mohan Mktg. Tel. 849929. • **Indore:** New Computer. Tel. 532362. Master Computer. Tel. 431970. • Growth. Tel. 311506. Bits & Bytes. Tel. 366862. • **Kolhapur:** Protech. Tel. 620883. • **Madras:** National Instruments. Tel. 844090. • **Nagpur:** Impact. Tel. 538806. • **Nashik:** Digilog. Tel. 578834. • **Pune:** Cy-443964. Insat Lynx. Tel. 451221, 451521. Pune Computers. Tel. 323670. Prithvi Computers. Tel. 455259. • **Sangli:** Karan Computers. Tel. 76348.

DEALER/OEM ENQUIRIES WELCOME

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Y2K Early Warning

Will *your* PC's apps go haywire on January 1, 2000? Here's a simple test

The most difficult task facing someone concerned with the implications of the Year 2000 Date Problem is convincing people the problem is real. Here is some help in that area.

This is just a test. It'll only take five minutes, but the results could tell you a lot—save you some anguish in the not-too-distant future.

Set the date on your PC to December 31, 1999. Set the time to 23:58. Then *power off* your PC. This is crucial.

Wait at least 3 minutes and then turn the PC back on. Check the date and time. It should have been a minute or two past midnight, on the morning of Saturday, January 1, 2000. My computer responds with January 4, 1980. Not exactly what you would expect.

The problem lies somewhere in your computer. If the system has the wrong date, then all your software has the wrong date.

The good news is that this was only a test. The bad news is that on Dec 31, 1999, it won't be, it'll be painfully real.

More than 80 million PCs will be switched off as people leave work. When they return, many applications on their computers will be all but useless.

How bad is the problem? How many systems will really fail? Based upon predictions of people involved in the Year 2000 problem, upwards of 80 percent of existing PCs are unreliable.

On January 1, 2000, more than 80 million PCs will think the Berlin wall is still standing, and the 386 hasn't yet happened...

When this test was first explained to me, I didn't listen properly. I changed the date, and waited. The date and time behaved properly. I *knew* the operating system could not be wrong!

Powering off the machine during the roll-over makes all the difference.

Each PC responds differently to the year 2000. If I reset it to January 1, 2000, then it rolls over to January 2, 2000, correctly. Now all I have to do is remember to reset my computer on Saturday, January 1, 2000. But many other PCs will not even accept the year 2000, refusing to believe it exists.

All your applications, spreadsheets, accounting packages, day-timers, e-mail systems, even backup cycles will be at risk a few years from now, unless you solve the problem.

What can you do? You've several options. Replace all your computers. A few letters to vendors explaining how you're a tad upset...might be appropriate.

Apply a kludge to your operating system, Have it read 1980 from the BIOS and add 20 years. Trouble is, each PC fails differently, making sure all your PCs have been fixed, and remain fixed, will be a logistical nightmare.

Another option is, do nothing. Why? Because, the problem won't take effect for a few years; you'll probably be in a different job; someone else will fix it; it can't be as bad as I make out, *et cetera*.

In the meantime, your problem is growing. Right now, a new PC is being installed. Is it Year 2000-compatible? What about the PCs you buy later this year? Or those in 1997?

I thought the 80 percent failure rate was too high. This is not based upon any lack of faith in predictions. It's more an unwillingness to believe such a 'stupid' error, could be so prevalent. On the other hand, I have great faith in the laws of Murphy. If anything can go wrong—

After the original form of this article was printed in *Information Canada*, I received more than 140 responses. 97 percent of the PCs tested failed.

Did you test your computer(s)? How many failed? Now do you believe in the Year 2000 Date Problem?

The power of this little demonstration lies in its simplicity. It doesn't take much to imagine all the PCs in the world—all of them—producing some very strange reports. Does this place you at risk?

Where exactly does the problem lie? Is it in the RTC (real time clock) or in the BIOS, or in the operating system?

Does it matter? The fact is, an error in processing the Year 2000 will occur more than 80 million times.

Many folks point out that a) the computer on their desk will be replaced before the year 2000, b) that someone will fix it with a software patch, c) that the next release of the operating system will solve the problem!

All of these observations may be true. But this doesn't change the fact that this error was replicated millions of times. Now ask yourself the question. If the manufacturers of PCs could make this type of error, what leads you to believe your accounting software is safe—and will handle the Year 2000 correctly?

(c) 1995 Peter de Jager. From the Year 2000 home page (http://www.year2000.com). Reprinted with permission.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Chaos In Two Digits?

Yes, say the experts—across a billion lines of code

Pessimists warn that on January 1, 2000, thousands of computers may grind to a halt.

Why?

To save space when recording dates, computer programs allow only two digits for years: as in '96'. Computers using such dates to determine a person's age or a past-due bill, for instance, may be stymied by the '00' in 2000.

"The alternative to addressing the Y2K problem will be going out of business."

Kevin Schick, The Gartner Group

"As the year 2000 approaches, MIS organizations across the US have been wrestling with the problem of reprogramming date-dependent systems. Date-dependency refers to how most programs depend on the manner in which dates are represented in order to run computations. But as of the first day of the next decade, the way in which days, months, and years have been identified up to now will, in many cases, become invalid.

"COBOL programs currently represent 23 January 1996 as 960123, and 12 November 1991 as 911112, allowing the computer to compare the two numbers and correctly assume that the smaller number represents the earlier date. On January 1, 2000—that is, on 000101—those comparisons will fall apart."

Informationweek

"For years, COBOL programmers have been writing programs which calculate dates for various business operations such as the age of consumer debt, the annuity on an investment, the monthly payments on a mortgage, the exact 'nnn' days (weeks, months, years) from now and so on. For just as many years, programmers have known that time bombs have been planted in these business applications because in the year 2000, the final year of the current millennium, numerous programs will incorrectly calculate these date operations."

Jerome Garfunkel, Enterprise Systems Journal

"Mainframers are in serious denial these days about what will happen...it's not that the world's COBOL programmers don't know how to fix the problem, or that current mainframe programming languages are incapable of handling dates in the next century. The problem is that mountain of old, fragile mainframe code still in use in businesses around the world— often running processes that lie right at the heart of a company's business. These applications have been around so long, were developed in such tangles of spaghetti code, and have been modified in undocumented ways so many times that no one now employed by the company knows how to fix them. In some cases one now alive knows how to fix them.

Jim Seymour, PC Mag

"We have here a unique technolog disaster that can be predicted precisely, far ahead of the occurre The date on which the disaster will o is known, and the time of day is known. It will sweep all around the w one time zone at a time. The nature o disaster is known, and has been descr precisely. The location of the disast known, and we know who will be affe

Yet the world continues to ignor

It cannot possibly be postponed, it will certainly be a major upheav most large organizations world including thousands of governmen the national, provincial/state, municipal levels.

Yet the world continues to ignor

It is not really a complicated con It can be understood clearly by an year-old who turns his mind to it, a doubt there are tens of thousands year-olds who know all about it could give a clear description o impending disaster to any adult would listen.

Yet the world continues to ignor

Ivan C Smith, retired physics teache

From the FAQ list at http://www.year200 maintained by Robert J S <70023.2572@compuserve.

Y2K Solution Providers In India

At least two Indian companies are listed on the Year 2000 home page.

Wipro Ltd (Software Division), with US-based Nazub Software Inc, has developed "a service methodology and a toolset called DA-TE-2000, to provide solutions for the Year 2000 change requirements (such as impact analysis, data file conversion, source conversion, testing and implementation). At the application level, Wipro's methodology incorporates steps that use DA-TE-2000 and other vendor tools, for millennium maintenance."

Contact: VNSS Srinivas <vnss@wipsys.soft.net> or 8 5588583, Fax: 80-5587984. Wipro L 88 MG Road, Bangalore 560001

Satyam Computer Services is "T one-stop solution for the millenni problem", but it doesn't say exac how. Evidently, custom develop work and consultancy is what's be offered.

Contact: Raghu R <gr266@satyam.jvnc.net>, 1-90 6329609, fax 1-908-6328615. Int national Marketing Group, Satya Computer Services, Mayfair Cent SP Road, Secunderabad 500003.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Error Correction For Data

e basics of CRCs and error rrection techniques

Seeing programs like ton Backup recovering data from disks and actually fixing corrupt a may seem like magic to a lot of ple. Amateur programmers wonder y it is done, particularly since the ess baggage, or the redundant data error correction, is barely 15 percent. There are two ways to getting around naged data. The first is to store a pletely redundant copy of the data n a CRC check to determine if the inal is intact and whether the second y needs to be used. This suffers from t of programming problems, apart n the obvious disadvantage of bling the data to be stored. The ond technique—used by most grams and even on CDs—is to use error correction scheme.

First a few basics on CRCs or Cyclic Redundancy Checks—vital for any kind of error correction. A CRC is basically a "grown up" parity bit check—a number calculated across a particular piece of data that is virtually unique to it. The chances of two pieces of different data having the same 16-bit CRC are 1 in 2^{16} or 1 in 65,536—reasonably unlikely. Using a 32-bit CRC makes the odds 1 in 4,294,967,296 (2^{32})—unlikely enough for most purposes. This allows you to detect any variation in data, since a single corrupt bit will always be detected, while multiple corruptions have just a 1 in 2^{16} (or 2^{32}, as the case may be) chance of escaping notice. CRCs can therefore be used to detect any changes made in the data with a reasonable degree of confidence.

Reed-Solomon Method

While CRCs can tell you when data has been corrupted, they can't find out where exactly and what the original data had been. To do this, a variety of error correction schemes are used. The Reed-Solomon method allows you to correct single errors perfectly and multiple errors with a very low failure rate.

To understand how the process works, let us take a 30-byte block to work on (in real life of course, larger blocks, usually over 1 kB are taken). This is then split into a 6x5 array. A 16-bit CRC value is calculated for each column individually and added to the bottom of the column, increasing the number of rows to 7. Next, 16-bit CRCs are calculated for each row and stored at the end to make the array's dimensions 8x7 (Fig 1).

When checking the data, the CRCs for each of the original 6 columns and 5 rows are recalculated. Comparing the calculated CRC with the stored CRCs allows you to identify which specific bytes have the error (Fig 2). Next the algorithm fixes all columns with a single error (Fig 3). In the second pass, all the rows with a single error are fixed (Fig 4). Another pass fixing all the columns with a single error will fix the data completely. To fix a series with one error, you can go on trying various possible byte values between 0 and 255 for the corrupted byte until the CRC calculated agrees with the original.

Unfortunately, there are some kind of error sequences that cannot be fixed. Fig 5 shows such a pattern which does not have a row or column with just one error. To combat these, you need to use more complex techniques which involve trying to guess two values in a row. The solution often comes down to trying all the possible combinations for the two values. If operations become too complex, it is often

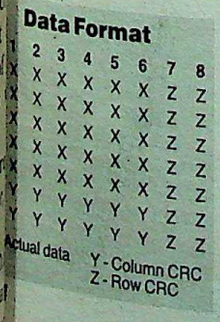


Fig 2

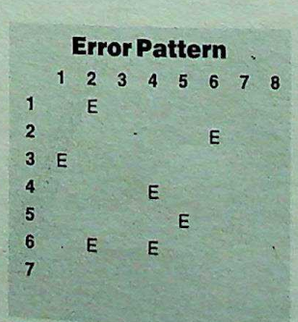


Fig 3

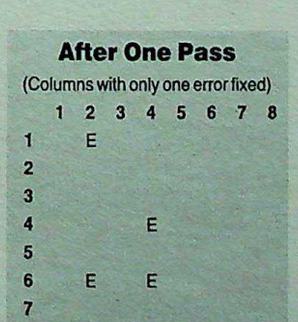


Fig 4

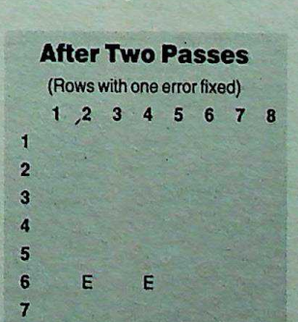
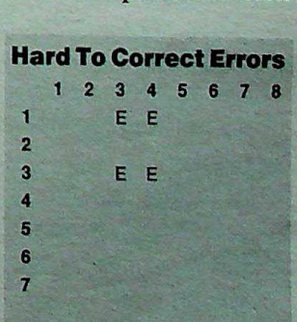


Fig 5



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

wiser to give up and tell the user to get another copy of the data.

One of the assumptions of this technique is that when data is corrupted, isolated bytes alone are affected. Unfortunately, given the density of today's storage media and the speed of modem communication, a single "noise event" (anything from dust on a disk to a crackle on the phone line, as the case may be) is likely to disturb more than a few bytes. Usually a whole series of continuous bytes are disturbed—a case where the error correction cannot be very effective. To get around this, a technique of spreading bytes is adopted, where two bytes that should be next to each other are actually stored far apart according to a prefixed formula when written to the media or transmitted. When being decoded, the bytes are rearranged into the original sequence before processing. This makes sure that a single burst does not corrupt a series of consecutive bytes, but rather well spread out, disjoint bytes. This is one of the reasons why many implementations of RAID systems store each of the 8 bits in a byte on separate disks.

After an error correction technique has run through the data and fixed all errors, despite the low statistical probability of erroneous data having introduced, it is always wiser to the entire data block with a singl Out of 30 bytes of data, for examp last two could store a CRC for th 28 bytes to make sure the correction technique had successful.

Until ideal, error free comm tion and data storage solutions up, error correction can let us effectively with today's technolo

```
{CRC lookup table}
var CRCtable : array[0..255] of Word;

const POLY = $1021;

{Update CRC with new byte}
Function   UpdateCRC(crc:Word;data:Byte):Word;
begin
  UpDateCRC := (crc SHL 8) XOR ( CRCtable[ (crc SHR 8) XOR data] );
end;

{Initialise the entire CRC table}
Procedure InitCRC;

{Calculate CRC table entry, when initialising within InitCRC}
Function  CalcTable(data,genpoly,accum:Word):Word;
var
  i : Word;
begin
  data := data SHL 8;
  for i := 8 downto 1 do
     begin
       if ( (data XOR accum) AND $8000 <> 0 )
          then accum := (accum SHL 1) XOR genpoly
          else accum := accum SHL 1;
       data := data SHL 1;
     end;
  CalcTable := accum;
end;

var
   i : Integer;
begin
 for i := 0 to 255 do CRCtable[i] := CalcTable(i,POLY,0);
end;
```

This Pascal code fragment is capable of generating a 16-bit CRC over the input CRCtable is actually a lookup table generated at runtime using the seed variable POL InitCRC once when the program loads to set up the look up table.

To actually calculate a CRC, initialize the CRC variable to 0, and use CRC-vari UpdateCRC (CRC-variable, byte-of-data) for every byte. The CRC is cumulative, and t CRC value that is obtained after running through all the bytes is the CRC for the entire

The same technique can be moved to most other languages too. For huge blocks though, this can be slow. Moving it to assembly can of course do wonders for speed, b greater benefits can be had by keeping the code in a high-level language and letting a call process several bytes. The overheads of repeatedly calling a procedure can sign increase execution time. A simple added parameter that tells how many bytes after t to process can cut down execution time significantly.

Errors In CD-Land

One of the most challenging parts of audio CD making had been keeping the error rates down—a tough task given the very high densities involved (almost a 100 million bits per square centimetre). When CDs were used as a medium to store data, the accuracy needed was even higher. While a single 2,340 byte sector on an audio CD is barely 0.01 seconds worth of audio data—something whose absence is not even noticeable—every single bit in a computer data packet is vital. The accepted standard for errors in data storage devices is 1 corrupted byte for every 10^{12} bytes. To meet the stringent data integrity standards required, error correction is used on all CDs.

All CDs usually implement an error correction technique known as **Cross Interleaved Reed-Solomon Code (CIRC)**, which proves inadequate for data applications. Usually a second layer of error correction is provided by the software, using a 2D implementation of the Reed-Solomon approach.

It is only because of error correction techniques that CDs have become a cheap, effective and safe mass storage media.

AM

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

IAVT 3.0

A vanilla anti-virus package with immature copy-protection and iconsistent performance

he IAVT comes on a single floppy without an installation program. The manual advises you to create a directory called IAVT on your DD and copy into it all files from the ppy. The IAVT floppy must always be esent in the drive as almost all mod-es check to ensure that the copy-otection is not violated.

This was one major problem we had ith this package—even with the origi-al diskette in the drive, modules ch as the IAVS (shield) consistently fused to work since the key disk as "invalid." Other modules including VC and ID2C randomly recognized rejected the key disk. We suggest at the developer significantly improve e copy protection scheme or better ill, remove it altogether. Users are nlikely to tolerate such quirks.

One useful quirk is that by default he program only scans the files within e current directory. For example, if ou load the software from within the VT directory, it only scans the files in e IAVT directory. However, if you load it from the root directory, all files in the disk are scanned.

The package has a front end called IAVT, and through this shell most modules are called directly. There are three TSR modules, which can also be loaded as device drivers. The IAVS module offers protection against unknown viruses, while IAVW checks files for known viruses before letting them execute. The IFWP module is for write-protecting a floppy drive.

There are also two separate programs—IMVC and IOHC to tackle the Monkey and One-Half viruses respectively. These modules are undocumented and cannot be accessed through the IAVT shell.

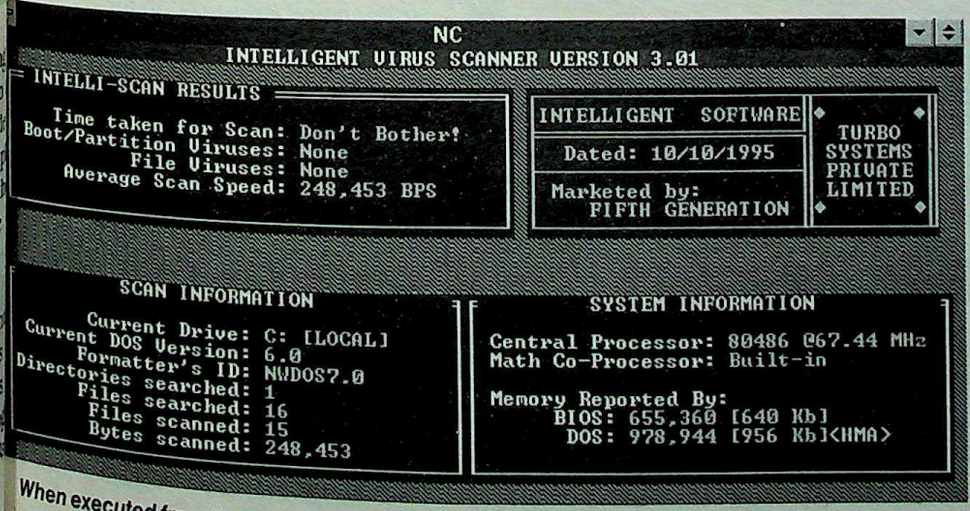
Scanning speed is good. By default IAVT scans .BIN, .COM, .DRV, .EXE, .OV? and .SYS files. On our test disk, the 318 files with these extensions were scanned in 24 seconds. However NAV 3.0 (also reviewed herein) accomplished the same task in 19 seconds.

The scanner and cleaner are not integrated—IVS locates the viruses and IFVC is then used to remove them. An integrated environment where a virus can be removed on detection would have been better.

The manual is comprehensive, but a little disorganized, and lacks an index. Features pertaining to the anti-virus package are not easily evident. Even simple information retrieval requires considerable browsing.

All in all, this is a moderately good anti-virus badly packaged. A more integrated approach, a better copy protection scheme—or a lack of one altogether—and improved documentation could make IAVT worth buying.

NB



When executed from the IAVT directory, only the 16 files in the current directory are checked.

THE SPECS

PRODUCT: IAVT 3.0

TYPE: DOS based anti-virus software

REQUIREMENTS: DOS 3.0 or later with 128 kB RAM and 180 kB HDD space

DISKS: One 3.5" floppy disk.

DOCUMENTATION: One 116-page manual

SPEED: Scanned 319 executable files (35..40 MB) in 24 seconds, yielding an average search speed of 1.48 MBps.

FEATURES: Uses fuzzy logic to detect viruses. Separate modules for virus detection and removal. Three different resident modules (loadable as TSR or device driver) are provided for detecting known viruses, preventing unknown ones and for write-protecting the FDD. Additional utilities for tackling the Monkey and One-Half viruses.

PRICE: Rs 4,888

SUMMARY: A fast anti-virus utility lacking in frills. This product is hampered considerably by inconsistent performance and an inferior copy-protection scheme.

DEVELOPER: Turbo Systems, New Delhi.

AVAILABLE FROM: Fifth Generation Software, 5, Ashoka Park (Main), Rohtak Road, Delhi 110035 Tel: 11-6210808 Fax: 11-6229805

Reader Query Service #E0102

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Norton Anti Virus 3.0

A well-designed anti-virus package with good documentation and speed

NAV comes on three 3.5" floppies and has a simple DOS installation that also installs the Windows components. This saves you the bother of installing them individually. The product can be run either from DOS or Windows, and manages to retain the same look and feel across the two environments.

It's better to use the DOS variant because you can then boot from a clean floppy. The DOS component is also slightly faster—a scan in DOS took 30 seconds while in Windows it took 37 seconds. However, one advantage of the Windows version is that you can schedule scans in advance.

The NAV is fully customizable. For starters, even the install routine allows you to pre-select installable components. All other modules like the scanner, auto-protect and inoculation module are also completely customizable.

NAV avoids making changes to the startup AUTOEXEC.BAT and CONFIG.SYS files and does this only with prior permission.

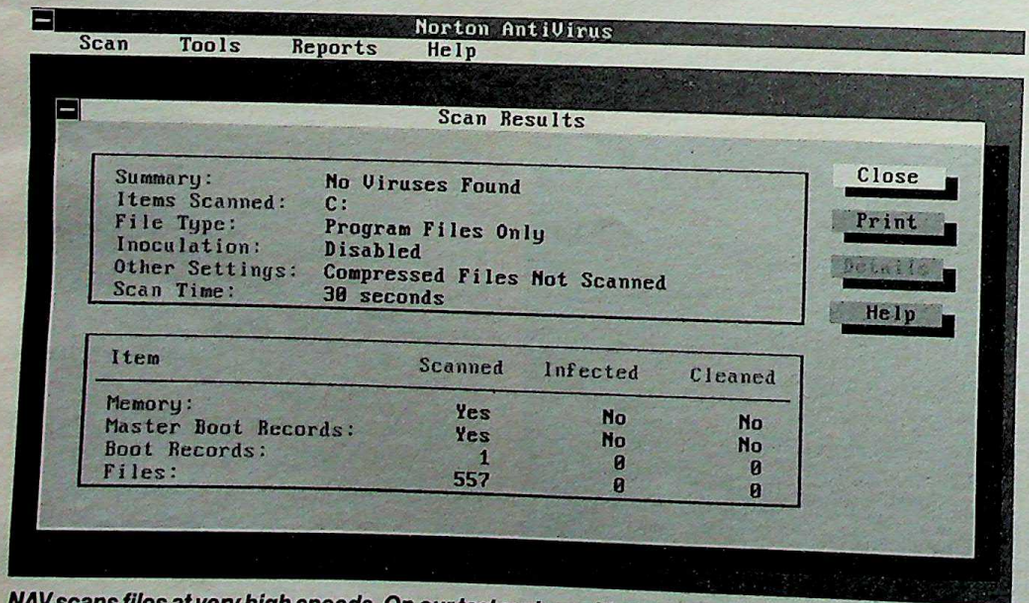
A resident Auto Protect module is available with both DOS and Windows versions. The DOS program runs as a TSR/device driver and the Windows version uses a process. The TSR module can occupy anywhere between 5..64 kB depending on what you want it to do. The TSR also checks for the presence of a boot virus on a floppy in case of a warm boot, though, as the readme file notes, this activity is not possible if another TSR captures the keyboard interrupt or if the warm boot is achieved by other means (by a call to INT 19, for example). Of course, this is quite unnecessary if you set your system's BIOS bootup sequence to "C:, A:".

The program can also scan within compressed files, a feature, which, for a short while was UTScan's forte. An "inoculation" feature is also present, but NAV uses the word inoculation as a euphemism for a checksum—a real inoculation routine adds code to an exe that will allow the program to de if it has been modified in any m

The manual is very well or There are several visuals helpfull trated with pointers. The gloss some useful information for the n The system messages section c details of all messages generated by great for troubleshooting.

Windows users will appreci scheduler feature of NAV which l schedule scans in advance as a action to take when a virus is de If you have NetWare and the NA (not reviewed here), you can hav automatically notify the NLM so can take advance steps to cu spread of infection.

All in all, this package deliver value.



NAV scans files at very high speeds. On our test system with 557 files, the scanning time was just half a minute.

THE SPECS

PRODUCT: Norton Anti Virus 3.0 and Windows.

TYPE: DOS and Windows based a package.

REQUIREMENTS: 2.59 MB free HDD s

DISKS: Three 3.5" diskettes.

DOCUMENTATION: One manual.

SPEED: Scanned a test HDD contain files in 30 seconds.

FEATURES: Comprehensive a package with integrated virus de and eradication; contains TSR driver for DOS and a process for W to actively detect virus activity, bot and unknown; extensive custo available; scheduler feature to a cally organize scans at preset time

PRICE: Rs 4,700

SUMMARY: NAV's extensive secu tures offer your system sound pro against viruses.

MANUFACTURER: Symantec C tion, Cupertino, California.

AVAILABLE FROM: Sonata, Ist Floor, AP Building, Bull Temple, NR Colony, B lore 560019 Tel: 80-6610862, 661083 80-6610972, 5580357.

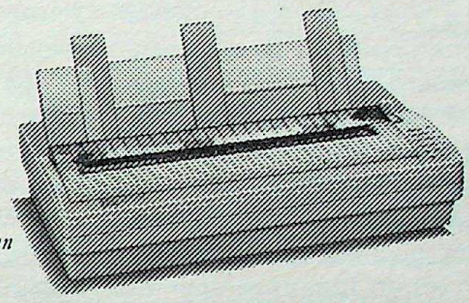
Reader Query Service #E0101

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

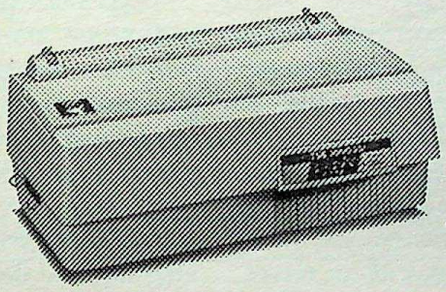
We make the printers most computers get hooked onto.

TVS Electronics has been making printers that India's leading computer companies use as



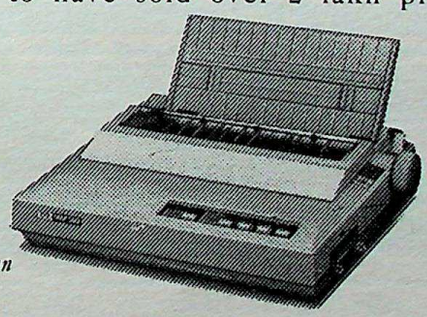
CALLIGRA Q SERIES
• 216-240 CPS / Colour • 24 Pin / 80 & 136 column
• Rs. 14,995 onwards

original equipment with their computers (because state-of-the-art computers need state-of-the-art



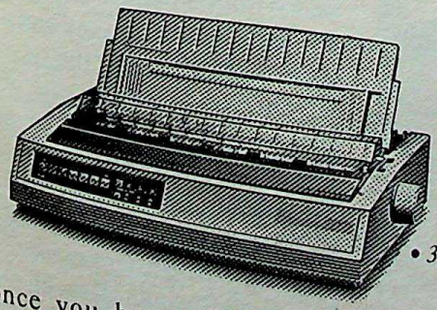
NOVO SERIES
• 175-192 CPS • 9 Pin & 24 Pin / 80 column
• Rs. 6,995 onwards

printers). TVS Electronics is the only company to have sold over 2 lakh printers (making it the



MSP SERIES
• 240-300 CPS • 9 Pin / 80 & 136 column
• Rs. 8,500 onwards

most preferred brand). Most of them have been repeat orders. Which only goes to prove that



HD SERIES
• 300-540 CPS • 9 Pin, 18 Pin & 24 Pin / 80 & 136 column
• Rs. 23,995 onwards

once you buy a TVS Electronics printer it'll soon become a habit.

TVS
ELECTRONICS
The No.1 in printers

The complete range of TVS Electronics printers: *• Calligra Q10, Calligra Q20, Calligra Q25 • Novo 130, Novo 230 • HD 5000, 5650, HD 6040, HD 6045, HD 6590, HD 6595 • MSP 145 Plus, MSP 155, MSP 240.*

Ambience/TVSE/32

For further information, call TVS Electronics, **Ahmedabad:** 7411227/7478619. **Bangalore:** 2261723/2261713. **Bombay:** 6285066/6286701/6247350/6247364. **Calcutta:** 262137/268355. **Delhi:** 6212576/6212577/6212578. **Madras:** 8412422/8412650. **Pune:** 332856/369946. **Secunderabad:** 847244.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Leap 1.0

A preview of C-DAC's multilingual Windows word processor

SNAP SHOT

Leap 1.0. Multilingual Windows processor. C-DAC and Men at Work, P. Rs 7,500. RQS #E0142.

A Windows word processor that supp English plus any one of 10 In languages, with language spellchec phonetic entry, very basic page la Minor quirks in interface and limited im export support. An unlikely switch Windows word processing pros, b capable product for new users with language needs.

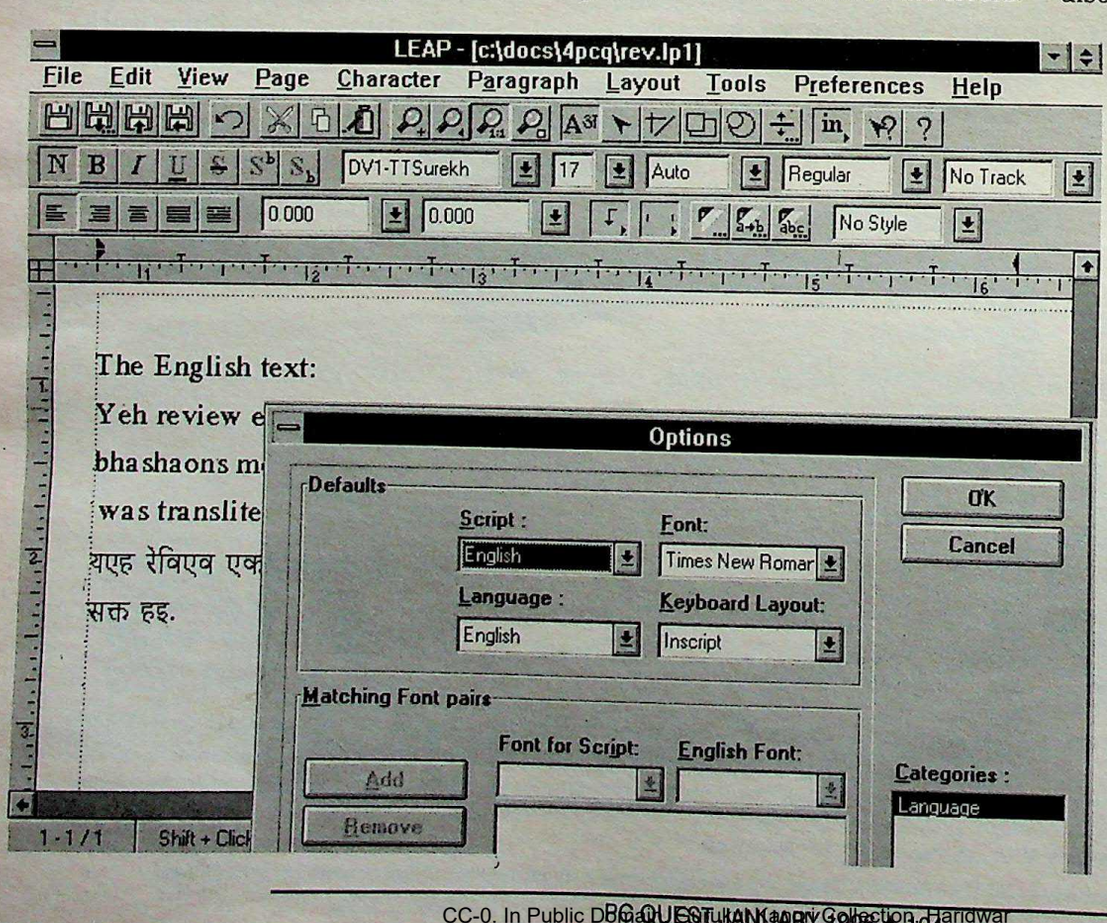
This is a Windows word processor from the Center for Development of Advanced Computing and Men at Work, both based in Pune, MH. It's multilingual—which means that apart from using Devanagri and other fonts, it supports Indian-language spellcheckers, phonetic transliteration, and a few other language-specific features.

English support is standard, but you can buy this package with additional support for any of Hindi, Assamese, Bengali, Gujarati, Kannada, Marathi, Malayalam, Oriya, Punjabi, Tamil and Telugu (each with a matching Roman equivalent). You can use multiple languages within a document. The review copy had Hindi support, and TrueType fonts; Type 1 fonts are available on request.

The floppy-based install is smooth though time-consuming; it also puts in a useful self-running demo into your hard drive.

Spellcheckers are currently available for English, Hindi, Marathi and Gujarati. These use modern language conventions for spelling, and allow user-defined dictionaries.

Phonetic entry lets you enter a local language word in English, phonetically—such as typing in "tabla" in English to get the Hindi word. This implementation is average, until you get to know the correct combinations that generate the characters you want. A spellcheck doesn't catch all the errors.



The user guide and user refe are well-organized, complete screenshots and useful cont appendix and index pages. Th effective online help, but for n English only.

Leap looks like any other Win but some non-standard keyb shortcuts and odd-looking icons getting used to. If you switch be apps, you need to switch key layout from QWERTY and INSC each time you do so. The capabilities are very basic. For a pr also aimed at the overseas market will need to spruce up interface and how smooth implements its many fea As also the limited import/e support—there are few apart from WordStar and Export is even more Spart would have been nice to be a export local-language text bitmap image—and as text can be placed into PageM which would then use the spe Windows font to display and correctly. Evidently, the tar an entry-level standalone processor user with local-lang needs, but an even more aggre price would have helped ther

Overall, this is a well-fea multilingual word processor the spellchecker and pho transliteration making it ea new users to get started. W out for a full review.

Govind

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

ADVERTISERS - INDEX

Digitized by Arya Samaj Foundation Chennai and eGangotri

s index is to help you in locating a particular advertisement in this issue. However, if you want further information on any duct/service advertised in here, just put the appropriate code number in the 'Reader Query' card and mail it back to us. will forward your query to the concerned company.

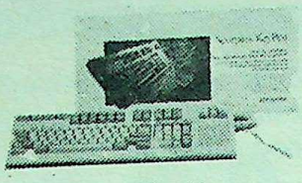
ode No	Company	Page	Code No	Company	Page
101	ADLINE	25	0148	L&T	46
102	APPLE	64	0149	LOTUS	105
103	ABHA	3	0150	LOTUS	107
104	BEST	30	0151	LOGIX	138
105	BLUECHIP	144	0152	L&T	187
106	BPL SYSTEMS	170	0153	L&T	189
107	COMPUAGE	51	0154	L&T	191
108	CYBER EXPO	71-73	0155	MULTITECH	IFC
109	CROMOTON GREAVES	83	0156	MICROSYS	8
110	CROMOTON GREAVES	85	0157	MICROSENSE	13
111	CROMOTON GREAVES	87	0158	MOTOROLA	38
112	CREATIVE DATA	192	0159	MICROWARE	41
113	C-TEL	140	0160	MODULAR SYS	167
114	CORAL SOFTWARE	148	0161	MINICOMP	181
115	C-DAC	194	0162	N&N	54-55
116	DYNALOG	76	0163	ORACLE	59
117	DQ SUBSCRIPTION	113-118	0164	ORACLE	61
118	DWIL	155-56	0165	ORCHID	136
119	DATAWARE	195	0166	PCQ SUBS FORM	133-34
120	ECIL	2-3	0167	PCQ NEPAL	164
121	EDP CORP	23	0168	PLC CONSULTANCY	192
122	EDP AIDS	42	0169	PROLAND	37
123	ELNOVA	21	0170	PRIYA INTERNATIONAL	163
124	ELENT	197	0171	PUSHPAM	126
125	FIFTH GENERATION	33	0172	PUSTAK MAHAL	19
126	F PROT	108	0173	PUSTAK MAHAL	21
127	GLOBAL INFOTECH	11	0174	PMEL	160-61
128	GODREJ	14	0175	QUANTUM	182
129	GUARD	53	0176	SYNERGY	57
130	HP	91	0177	RADIX	68
131	HP	93	0178	RADIANT	108
132	HP	95	0179	REAL TIME	153
133	HP	97	0180	SANDUR	47
134	HP	99	0181	SOFTEK	88
135	HP	101	0182	SAN TELEQUIP	110
136	HP	103	0183	SASTEK	147
137	HP	IBC	0184	SOFTEK	154
138	H.S. TECH	68	0185	SQL	158
139	IIM	48	0186	SEACOM	172
140	IT SECURE	80	0187	SPARR ELECT	184
141	INFOSYS	143	0188	SWAM	199
142	INTEGRA MICRO	29	0189	SWAM	201
143	INDUSTRIAL ADAPTERS	186	0190	TVSE	123
144	INTEGRA MICRO	203	0191	WIPRO	6-7, 34
145	KUNHAR	131	0192	VERTEX	1
146	LG INFO	4	0193	VINTRON	15
147	LIPI DATA	45	0194	ZENITH	BC

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

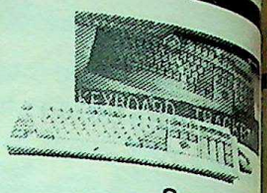
Digitized by Arya Samaj Foundation Chennai and eGangotri

I prefer peripherals from QTRONIX® because they GUARANTEE replacements in the Guarantee Period.

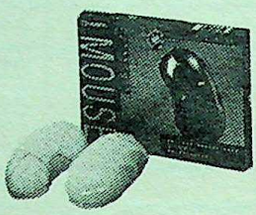
RATNAKAR SURYAVANSHI
Proprietor, Prajas Computers



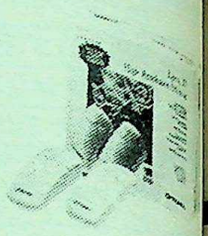
Scorpious KeyPen
Pen input directly from the keyboard; multi-functional input device that combines pen-based input with full 101/102 key keyboard; drivers included.



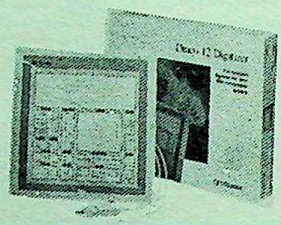
Scorpius
Perfect for Windows users; new IE layout standard with mini-trackball 101/102 key compatible for IBM AT PS/2; rubber mechanical key switches variable resolution upto 6400 dpi Pop-up Menu



Lynx 90 *(left)*
For highly professional users; unique ergonomic design; 20 to 6400 dpi variable resolution; available in 3 buttons

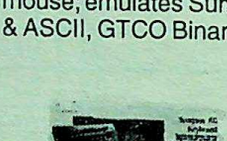


Lynx 3
Original white mouse; 20 to 64 dpi variable resolution; standa and deluxe packag



Draco 12
12"x12"; 1000 lpi; AutoCAD templates; drivers for AutoCAD, Windows, digitizer & mouse; emulates Summagraphics Binary & ASCII, GTCO Binary & CalComp 2000

Sagitta Colour
24 bit; 16.8 million colou upto 800 dpi w interpolation; TWAIN driv ProImage for Windo JPEG file compression; OC for Windows; alternati package with PCMCIA type interface ca



Scorpious 101 *(left)*
Standard 101/102 key IBM AT & PS/2 compatible layout; rubber mechanical key switches; slim new design

Qtronix Corporation of Taiwan is a manufacturer of hi quality, low-cost Input devices as well as supporting softwa The focus is on enhancing the productivity and reliability personal computers and work stations at extreme competitive prices.

Qtronix has a ONE YEAR GUARANTEE on all it's produc Creating value packages to meet customer satisfactio **Qtronix** is the upcoming choice in computer peripherals f quality conscious computer users.

SOLE DISTRIBUTOR FOR INDIA

PUSHPAM

COMPUTERS AND SOFTWARES

Your peripheral needs are central to us.

635/1-B, New Gajara Society, Bibwewadi, Pune-411 037, Maharashtra (INDIA)
Tel.: 0212-415162/411279/417885 Fax: 91-212-416455

DEALERSHIP & OEM ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

FotoMan Pixtura

A novel, filmless digital compact camera without moving parts, but overpriced and of limited professional appeal

The Pixtura is a "digital camera"—it doesn't use film. It saves the images directly to internal memory, in a proprietary, compressed image format. You can then download the images directly to its own Windows application or to any TWAIN-compliant app, preview them as a slideable, and save them as .JPG, .TIF or other formats.

There's a comfortable grip with a hand-strap. A single shutter release button is all there is on the top. There are no moving parts at all, except for the switch that closes the main lens cover and the viewfinder lens cover, as well as powering the camera off. The controls comprise two buttons next to an LCD plate with easy-reading icons that let you set flash, timer and exposure compensation, delete images, and view "frames left" and battery level.

This camera shoots at two resolution modes, both at 24-bit true color: high (48 frames at 768 x 512 resolution) and low (144 frames at 384 x 256 resolution).

It's cheaper to run than a conventional film-based camera. It's power-hungry, though, chomping through a set of four Alkaline AA batteries (Rs 60) in almost one cycle of 48 high-res shots, with a mix of flash and non-flash shots. The recommended Energizer lithium AA cells last much longer, but are difficult to get in India.

The pictures are retained even when the battery runs down, so I assume some non-volatile RAM, such as flash RAM, is being used. The proprietary format, .PXN, uses some unbelievably effective compression—an 80 kB .PXN file expands into a 152 kB .JPG file!

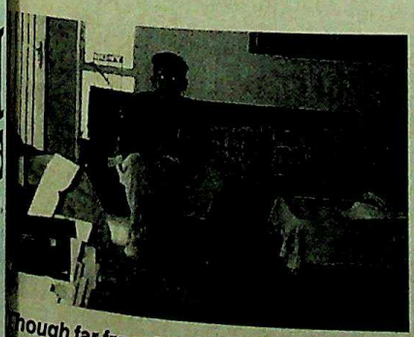
The Software

Some smart-looking Windows software lets you download images, retouch them, apply correction filters for cloudy daylight or fluorescent light, and so on. This is nice; you don't need to carry 81A-type CC filters, though this isn't an *exact* substitute. The software also lets you display a copy of the camera's LCD, and control everything from within Windows, from taking a picture to setting exposure compensation to erasing pictures.

There's also some TWAIN software, PhotoNow!, that lets you access images and camera controls from within any standard TWAIN-compliant app from PhotoShop and PaintShop Pro to most modern Windows word processors.

One irritant is the serial-port download. It's slow—the fastest is 115,200 bps with a 16550 UART. And heaven help you if you're using a 386. On one PCQ Labs test machine (386DX/33, 8 MB, high-speed serial port, Windows 95) we clocked it at over 3 minutes per frame just to transfer the images to the PC, not to display them. That meant

Continued on page 20



Though far from 35 mm film quality, the pictures are printable, as long as you don't enlarge them. This is a part of a photo from the Pixtura, reproduced 1:1.

THE SPECS

PRODUCT: Logitech FotoMan Pixtura. Color digital compact camera. Outputs digital images straight to Windows applications. Focal length: 42 mm equivalent on a 35 mm camera. Fixed-focus. Equivalent film sensitivity: ISO 84. Shutter speed: 1/30 to 1/175 sec, variable. f/2.8 to f/16, variable. Speed: 5 sec per picture (8-10 sec with flash). Flash: up to 2,000 flashes; factory-replaceable. **POWER:** 4 AA alkaline cells, lithium recommended.

FEATURES: Controllable from Window apps. Pictures retained for a year, even on discharged batteries. Takes video camera lenses.

PRICE: Rs 83,995

SUMMARY: A convenient filmless digital camera roughly equivalent in optical capability to a fixed-focus 110 compact. Okay for low-to-medium quality news photography, very good for online or CD-ROM publishing. Pros: very convenient, no film development, straight download to digital image file. Cons: Compact, not SLR—limited professional appeal. Slow serial-port transfer of images. Staggeringly expensive.

DEVELOPER: Logitech.

VENDOR: Vintron Electronics, F-34 Okhla Industrial Area, Phase I, New Delhi 110020 Tel: 11-6814520 Fax: 11-6810460

Reader Query Service #E0138

CC-0. IIT Kanpur Dr. Shanti Swarup Bhatnagar Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Corel Dream 3D

This CorelDRAW 6 module is an intuitive and capable 3D modeler for Windows 95

This is one of the several modules in CorelDRAW 6. Dream 3D is meant to give you quick 3D modeling and rendering, and is great for presentations, logos, and basic color illustration work. It doesn't compete with the 3D Studio *genre*, but for its application, it's a remarkably capable product.

When you start up a new 3D model, Dream 3D opens two windows. One is a perspective window (the camera's viewpoint), and the other, the hierarchical object manager.

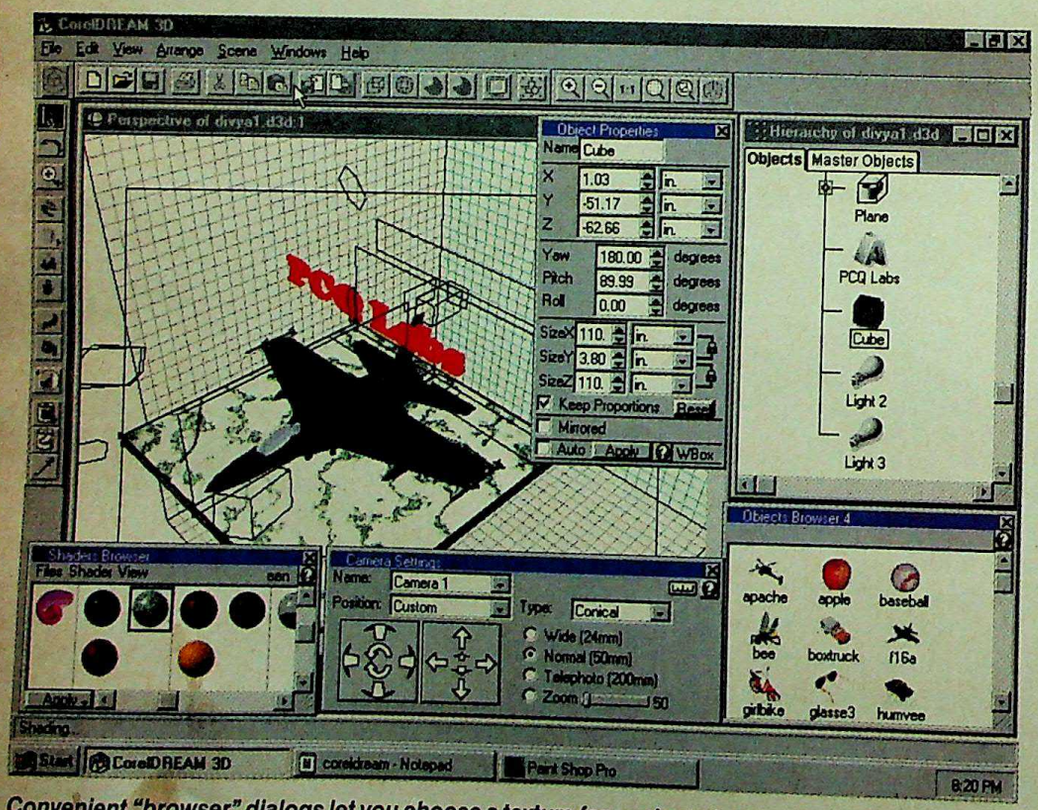
The hierarchical dialog displays all the objects in your model—lights, cameras, 3D objects. You can group objects to create complex shapes. The dialog displays the objects in a hierarchy, with the topmost node representing the entire model. Groups are represented by nodes with a plus sign. The dialog lets you locate an object, and also verify that you've selected the correct object (in the 3D perspective, it's not always easy to select the correct object).

The perspective window displays the model from the current camera viewpoint. Dream 3D lets you define multiple cameras in a scene. Well, this is somewhat misleading—a "camera" object just defines the viewpoint for the perspective window. If you change the viewpoint to get a better look at an object, you modify your camera location as well. However, by creating multiple cameras, you can alleviate this problem to some extent. The camera objec options like wide angle and zoom, w let you experiment with your s Though I'd have liked a split wi which displayed the model different viewpoints without havi open up multiple windows.

The manipulation of the mou move in three dimensions takes a to figure out. Corel3D tries to he displaying projections of the se object on the X-Y, X-Z and Y-Z pl But it is still confusing. While yo viewing your model, you can selec quality you want to see while mod You can select bounding box, wirefr preview and rendered quality leve

The bounding box displa bounding box for the object, pre will show a roughly shaded ob whereas rendered quality will re the object while displaying it. Lu you don't have to wait for Corel3 draw the entire scene, you can con working, and it will continue to m the scene in the background—h Windows 95 shines!.

Another nice feature is that you customize this quality level on a g



Convenient "browser" dialogs let you choose a texture for a selected object, or include new 3D clipart into the drawing.

THE SPECS

PRODUCT: Corel Dream 3D, rendering module of CorelDRA Requires 486 with Windows 95; 16 RAM recommended.

FEATURES: Bezier-based 3-D mod intuitive 2D-style tools, Modeling Wiz Colors and textures with transparency reflection, real-world textures like grain, marble. Camera and light so controls.

PRICE: Part of CorelDRAW 6 (CorelD 6 costs Rs 24,950)

SUMMARY: An entry-level, but featured and intuitive 3D color mod module that exploits Windows 95 fea to good advantage. Effective us background rendering and drawing m this fast. Perfect for presentations, l and basic 3D illustration work.

Reader Query Service #E0126

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

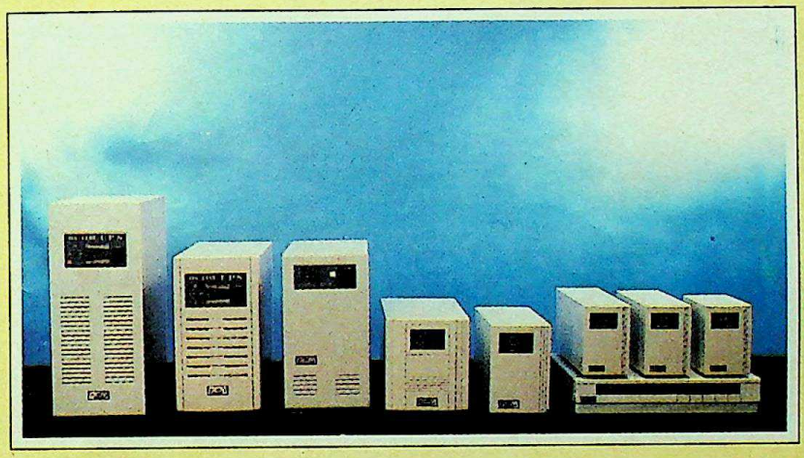
Digitized by Arya Samaj Foundation Chennai and eGangotri

SHIELD

of power protection during power failure, brownouts, fluctuations, spikes, sag etc.

POWERCOM

UPS + AVR



UPS + AVR Features : ■ 75% to 125% of Input voltage for best Lan/PC protection ■ Microprocessor Controlled ■ Built in MF - Batteries ■ Wide range Offline : 250VA to 1200VA, Online : 1KVA to 15KVA ■ 1 year comprehensive warranty ■ Compact yet powerful ■ Built in Novell Port

yes NetWare Tested and Approved

More than 4000 countrywide installations
All India Dealer Sales / Service Network

Now Available
UPS KING SERIES
425 VA

KUNHAR PERIPHERALS PVT. LTD.

A-23, Shri Ram Industrial Estate, 13, G.D. Ambekar Road,
Near Wadala Telephone Exchange, Wadala, Bombay - 31.
Tel. : 4130442 / 4130646 Fax : 91-22-4130218

Factory : Gat No. 142/2/1, Dingraj Wadi, Koregaon Bhima,
Taluka Shirur, Pune. Tel. : (02137) 52519 Fax : (02137) 52520

Authorised Distributors

BOMBAY ★ Avion Electronics Tel. : 3858959 / 3882137 / 3880237 ★ Essens Power Conversion Tel. : 5564284 / 5572259 ★ Sycom Power protection Tel. : 5653230 / 5648169 **POONA** ★ MKM Tubes Tel. : 630695 / 630973 **INDORE** ★ Fino Marketing Tel. : 539634 ★ K.K. Computers Tel. : 533467 **NAGPUR** ★ Viba Enterprise Tel. : 530490 **NASIK** ★ Technocrat's Systems Tel. : 579510 **NAVSARI** ★ Bugs Computers & Systems Tel. : 52654 **NEW DELHI** ★ Axion System Tel. : 6414392 **BANGALORE** ★ Vak Computers Tel. : 2226192 **HYDERABAD** ★ Rook Technologies Tel. : 819773 **GOA** ★ Computer Shop Tel. : 223712 **SURAT** ★ Rohan Business Machines Tel. : 30001 / 426651 **BARODA** ★ Pearl Communica Tel. : 452558 **BHARUCH** ★ Pearl Communica Tel. : 36064.

WANTED DEALERS IN UNREPRESENTED AREAS

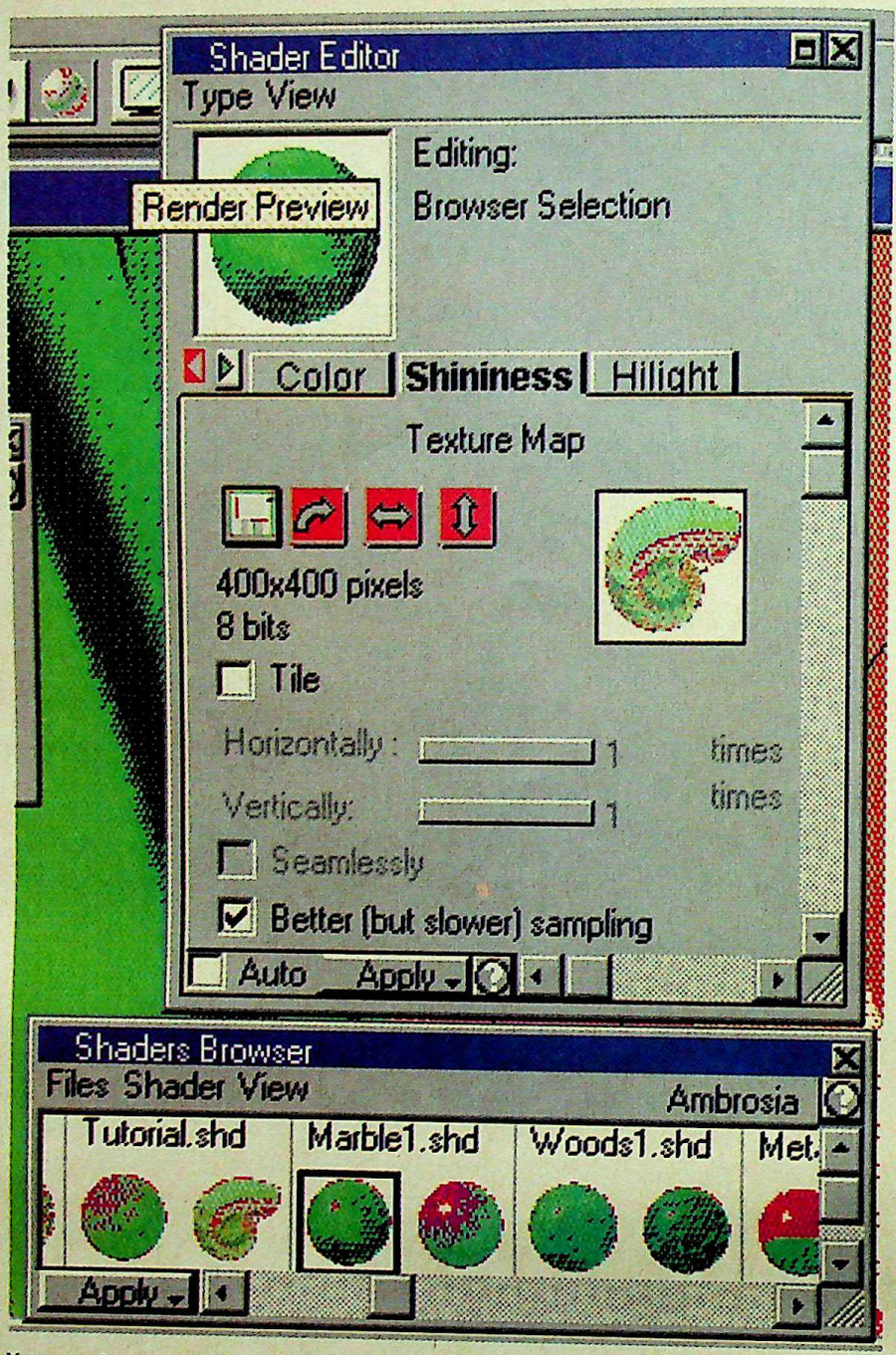
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

scale as well object-by-object. Thus you could use a bounding box for objects you have finished working with, to speed up your display.

The modelling tools in Corel3D seem limited at first. However you soon realize that there is a lot of power in the toolbox. The most flexible are the extrude tools, which let you sketch out a figure on a 2D plane—and then Corel3D automatically extrudes it into a 3D object. The rotation tool is also nicely implemented, though you need to look at the manual here to fully exploit this rotation tool.

Corel3D lets you import 3D objects into your model. You can then choose from the nice range of 3D clipart provided on the CD-ROM, to quickly spruce up your model. The clipart can be displayed in a browser window, letting you drag and drop.



You can drag-and-drop shades into a Shader Editor, and interactively change shading attributes like shininess.

Pointing objects toward each other is easy. Select the two objects, say a light and a box. Right click the light, and choose "Point At" to make the light point towards the box. Aligning is more involved. Each object has an alignment point. To align objects you select the objects and choose the type of alignment you would like. Normally the easiest is to make the alignment points coincide.

Any 3D modeler would be lost without texture mapping and shading. Corel3D gives you a wide range. The texture mapping and color shading properties are stored in "shader" objects. Each shader can be a bitmap texture, color shader, or building texture (like marble). You can control the shininess, transparency, etc. The shader editor is a nice way to modify your shader object. It displays a sphere which uses your shader object (the sphere displays your texture mapping). As you modify your shader properties, the sphere is updated to show the changes. (Again, the updating of the sphere takes place in the background, so you don't get slowed down).

When you try to map a bitmap onto a 3D object, you may not have sufficient detail. Corel3D then tries to interpolate your bitmap, and even lets you control how this interpolation is done. The essence is that it creates a bounding object (say a cube), and maps the bitmap to the surface of the cube. Next it uses the color values on the surface of the cube to color the object. Tip: in preview mode, textures show up—rendered quality the effect.

Lighting effects Dream 3D allows a deal of flexibility light editing dialog is well designed provides immediate feedback as you change some light effects. However, the display feedback is misleading. You can customize color, half angle of light etc. to get perfect lighting. Again, in preview quality, the object does not show you the lighting effects. You must select rendered quality to see the effects. In fact, once you have placed your objects I suggest you do a Render Preview, to see how the final image will look.

The final step is the entire process is to render your model and store the image. Corel3D gives you control over the size of the image, dpi etc. Further, it includes a nifty batch mode. The batch mode in Corel3D is ideal for completing long rendering sessions. Simply select the models you want, set the camera, and add it to the batch. You can then fire off the job and run overnight, saving you endless cups of coffee.

The compact manual is a clear and concise summary of all the tools, and a brief tutorial. Nice, though the tutorial "model" could have been a lot better.

Corel3D can be quickly mastered in a few days, which is great for budding 3D modelers. You can use it to try around, and get good 3-D images without much work.

Divya Mahajan <divya.dci@axcess.net.in> Dynastic Computers International. You can reach him as MGREP on PCQ.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

power hungry?

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

If you're looking for a little more power to your PC, you couldn't do better than to tune in to us. PC Quest is vibrant, alive network that gives you helpful inputs on everything from choosing the right package to the best peripherals available. So to get more out of your PC, start with getting a PC Quest.

MORE POWER TO THE COMPUTER USER

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YES, I would like to avail of this offer & become a subscriber of PC Quest. I want to subscribe

	TERM	STAND PRICE	YOU PAY	YOU SAVE
☐	3 Years	Rs. 900/-	Rs. 630/-	Rs. 215/-
☐	2 Years	Rs. 600/-	Rs. 450/-	Rs. 150/-
☐	1 Year	Rs. 300/-	Rs. 240/-	Rs. 60/-

Foreign Subscription Rates
By Air Mail
1 Year US $ 60/-

Enclosed is my cheque/DD No. _____ dated _____
for Rs. _____ drawn in favour of **CYBER MEDIA (INDIA) LTD**
(Add Rs. 15/- for outstation cheques)

From :

Name: _____ Designation : _____
Organisation _____
Address : _____
_____ City: _____ Pin: _____
Phone: _____ Fax: _____

Mail Back to : Cyber Media (India) Ltd., 701, Meghdoot Building, 94, Nehru Place, New Delhi-110019
Ph. : 6416315, 6476664, 6411692. Fax : 6476664.

Please help us get to know more about your needs by filling in this form.

A. YOUR JOB TITLE

- ■ MD/President/CEO/Director
- ■ Manager/Asst. Manager
- ■ Cust. Engg./Executive
- ■ Any other_____
- ■ VP/GM
- ■ Analyst/Programmer
- ■ Consultant/Trainer

B. YOUR WORK AREA

- ■ MIS/Computers/Communications
- ■ Marketing/Sales/Gen. Mgmt.
- ■ Any other_____
- ■ Purchase/Finance/Admn.
- ■ Education/Training

C. YOU WORK FOR

- ■ An. I.T. Company
  WHICH IS IN...
- ■ Govt. Sector
- ■ Private Sector
- ■ MNC
- ■ A User Company
- ■ Public Sector
- ■ Education / R&D
- ■ Any other_____

D. IF YOU WORK FOR AN I.T. COMPANY, IT IS PRIMARILY IN

- ■ Hardware
- ■ Distributor/Retailer/Dealer
- ■ Training/Consultancy
- ■ Software Development
- ■ Peripherals
- ■ Any other_____

E. YOUR ROLE IN PURCHASE OF COMPUTERS

- ■ Approving
- ■ Defining Specifications
- ■ None
- ■ Recommending
- ■ Purchase Formalities

F. PLANNED PURCHASE (NEXT ONE YEAR)

- ■ PCs
- ■ Lan/Data Comm. Equipment
- ■ Software Packages
- ■ Any other_____
- ■ Servers
- ■ Custom Software
- ■ Peripherals

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PHd

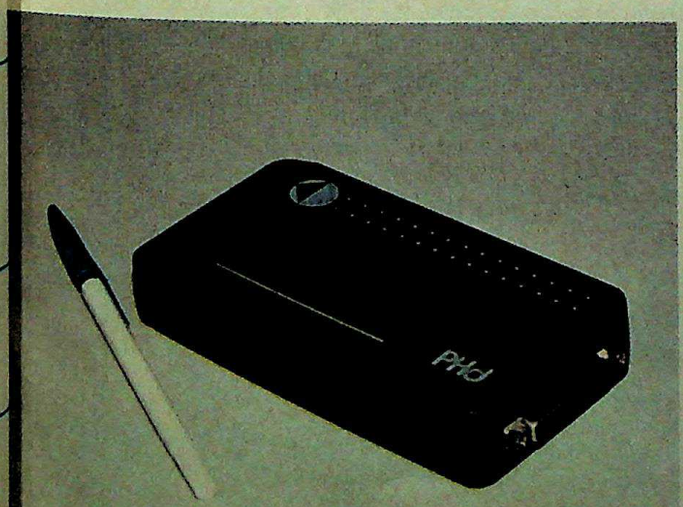
This tiny portable hard disk will appeal to the security-conscious and the mobile user

The PHd is a portable "Pocket Hard Disk". It holds 530 MB of data and comfortably fits into your shirt pocket. The PHd is rated at a non-operating shock of 300G, so it's safe to carry it in your pocket or briefcase.

The product has a simple no-frills 30-page manual that covers installation tips and details on troubleshooting. Initially, we had some installation problems—the system refused to recognize the keyboard, despite being powered on. The problem however, disappeared as mysteriously as it had come up. The installation module also demanded to know if we had MS-DOS, DR-DOS or OS/2, and since the test machine was running on Novell DOS 7, we alternatively tried both the MS-DOS and DR-DOS settings, and got a "PHd not detected" for our troubles. Finally, we used the self-loading EXE driver in lieu of the CONFIG.SYS loadable SYS driver and proceeded without any further problems.

This is not the standard type of disk to be registered in the CMOS setup—it's a "logical" drive connected to your parallel port for data transfers and uses a bypass through the keyboard connector for power. A battery pack is also separately available if you want to use it for long hours with a notebook (a PS/2 style keyboard attachment cord is provided, and the external pack is to be used if you don't want to put an additional burden on your notebook battery). Power consumption is very low at 2 W, and the sleep mode brings it down even further—a boon for notebook users.

The driver is well-designed and occupies just 5 kB of RAM. An accompanying utility allows you to format or partition the PHd. You can also use it to set/remove a password to the PHd. Another interesting feature is that the PHd can be "chained"—you can connect an additional PHd to the first and thus get more disk space. This means that with two LPT ports, you can have up to four PHds active at once. A printer can also be connected through the PHd, either before or after the chaining operation.



This compact hard disk fits into your palm and packs up to 810 MB of data.

THE SPECS

PRODUCT: PHd

TYPE: Compact, portable, high-capacity HDD

DOCUMENTATION: One small 40-page manual

CAPACITY: 530 MB; available in capacities from 340..810 MB.

SIZE: 28x149x76 mm (HxLxW)

WEIGHT: 350 gms

FEATURES: Compact design; simple installation; powered by keyboard splitter, with data transfer through parallel port; low weight; three-hour battery pack also available; compatible with DOS, Windows and OS/2; supports power management.

PRICE: Rs 28,000 (includes one-year replacement warranty).

SUMMARY: This compact hard disk is ideal for mobile users who need to transfer large amounts of data between their work places. PHd can be easily removed and locked away thus making it ideal for high-security applications.

MANUFACTURER: KT Technology, Singapore

AVAILABLE FROM: MatheMagicalTheamas Info Sys Techno (MIST), 34, FF-1, Ratan Apartments, Ganganagar, Off Bellary Road, Bangalore 560032. Tel: 80-3430390, 3431195 Fax: 80-2202877.

Reader Query Service: #E0125

Performance Tests

To determine real-life speed, we backed up a hard disk with 20 MB of data, on to the PHd using Fast-Back Express. The backup took eight minutes and 15 seconds, yielding an average throughput of 40 kbps. Of course, since we directed Fast-Back Express to use maximum compression, some part of this time went into compressing the files. To get raw file copy speeds, we used XCOPY to back up a 150 MB disk (occupied space) on to the PHd and found that this operation took 35 minutes—yielding a throughput of 70 kbps.

NB

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

a commitment to UPS systems worldwide

inseparable as flowers & the honey bee!

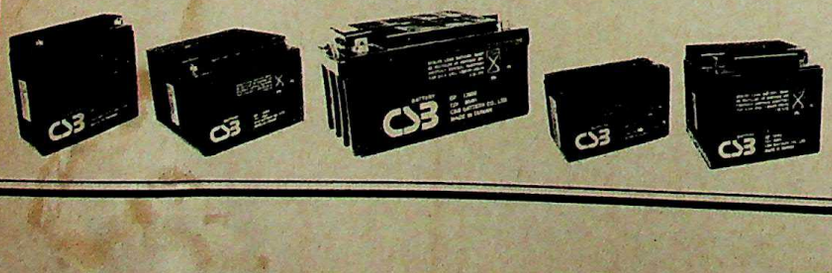
The CSB BATTERY CO.LTD., Taipei, a pioneer in the SMF battery technology & production engineering & the CSB BATTERY are known the world over for their commitment to UPS systems. In India too more & more UPS companies have come to rely on CSB. For uniqueness of product features & design. For performance. For consistence in quality. For delivery schedules & above all for the value for money it provides.

Are your UPS systems backed by the power of this commitment ?

CSB BATTERY CO. LTD.
AN ISO 9002 COMPANY

BATTERY
CSB

clearly a front-runner



Authorised distributor for India
ORCHID ELECTRONICS
R-165, Greater Kailash - I, New Delhi - 110 048
Ph. : 643 6955, 647 9386 Fax : (011) 646 0201

ANDY DIRECT

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The PCQ Market Monitor

iven below are the list prices for a comprehensive selection of software, rdware and related peripherals. Most products listed here are available at mpetitive prices. This listing to allows you compare features and prices before ying. Use the Reader Query Service number (RQS No) and card to get more formation about the products listed here.

SOFTWARE

COMPUTER-AIDED DESIGN

Product	Developer	Price	RQS No
AutoCAD 11 DOS	AutoDesk	46,500	E011466
AutoCAD 12 DOS/Win	AutoDesk	93,500	E011467
AutoCAD 13 DOS/Win	AutoDesk	104,000	E011468
Autodesk Workcentre Win	AutoDesk	33,000	E011472

COMMUNICATIONS AND GROUPWARE

Procomm Plus 2.01	Datastorm	7,090	E011533
Procomm Plus Win 2.11	Datastorm	7,890	E011534
Procomm Plus Network	Datastorm	35,390	E011535
cc: Mail 10 user	Lotus	15,000	E011573
Notes Server	Lotus	15,500	E011584
Notes Client	Lotus	15,500	E011585
Notes 10 user	Lotus	135,000	E011586
Notes Desktop	Lotus	9,000	E011587
Notes Desktop 10 user	Lotus	76,000	E011588
Lotus Organizer	Lotus	5,500	E011559
MS Mail Server 3.2 DOS	Microsoft	26,230	E011821
Winfax Pro Single User 4.0	Delrina	7,995	E01730
Winfax Pro/Networks 4.0	Delrina	25,000	E01731
Winfax Pro/Server 4.0	Delrina	12,000	E01732
Winfax Pro/Networks 5/4.0	Delrina	26,000	E01733
Mosfax Pro, Single User 2.0	Delrina	5,995	E01734

COMPILERS

Fortran (DOS)	Softek	5,000	E01695
Fortran (LAN/Unix)	Softek	15,000	E01696
COBOL (DOS)	Softek	15,000	E01697
COBOL (LAN/Unix)	Softek	40,000	E01698
Pascal (DOS)	Softek	7,500	E01701
Pascal (LAN/Unix)	Softek	15,000	E01702

DATABASES

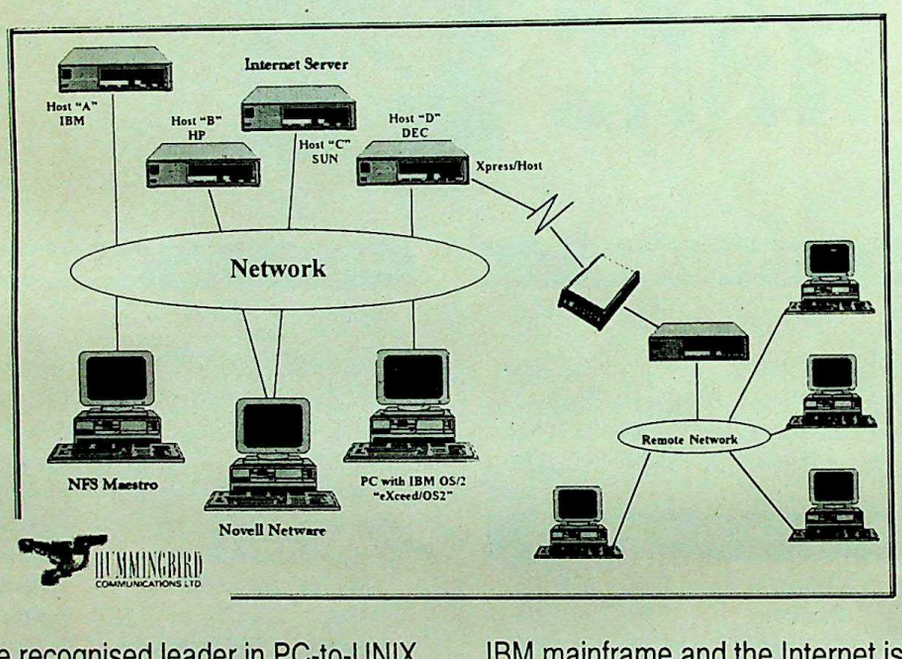
Product	Developer	Price	RQS No
dBASE 5.0 for DOS	Borland	14,245	E011606
dBASE for Win Developers Kit	Borland	30,950	E011610
dBASE IV 1.5/2.0 for DOS	Borland	14,245	E011611
dBASE III+	Borland	13,145	E011614
Paradox 5.0 for Win	Borland	10,945	E011620
Paradox 4.5 for DOS	Borland	14,245	E011625
Delphi Standalone CD	Borland	16,445	E011646
Delphi Client Server CD	Borland	98,945	E011647
Forehelp	Borland	4,345	E011652
Reportsmith 2.5 PC Databases	Borland	4,345	E011656
Filemaker Pro 2.1 Win	Claris	3,950	E011763
Filemaker Pro 2.1 Win 5 user	Claris	13,950	E011764
Lotus Approach	Lotus	4,750	E011558
Access 2.0 (Win/Win95)	Microsoft	15,390	E011846
Access Dev Kit 2.0	Microsoft	18,670	E011847
Foxpro 2.6 Professional DOS	Microsoft	26,230	E011839
Foxpro 2.6 for Win	Microsoft	5,540	E011840
Foxpro 2.6 Professional Win	Microsoft	26,230	E011841
Foxpro 3.0 STD for Win	Microsoft	11,140	E011843
Foxpro 3.0 Professional Win	Microsoft	27,890	E011844
Backoffice Server for NT 1.5	Microsoft	133,760	E011781
Backoffice Client MLP 20 user	Microsoft	254,370	E011783
SQL Server for Win NT 6.0	Microsoft	60,350	E011790
SQL Workstation, Win NT 6.0	Microsoft	29,780	E011792
SQL Client/WinNT 6.0 MLP 20 user	Microsoft	143,930	E011794
SQL Client/Win NT 4.21 MLP	Microsoft	8,990	E011803
Personal Oracle 7	Oracle	14,700	E011485
Oracle7 Workgroup Server/user	Oracle	11,000	E011486
Oracle Power Objects/Standalone	Oracle	14,700	E011487
Oracle Objects for OLE	Oracle	7,300	E011489
NLM/Sybase Workgroup 8 User	Sybase	95,000	E01735
NLM/Sybase Workgroup 12 User	Sybase	250,000	E01736

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NFS Maestro TCP/IP DOS & Windows

HUMMINGBIRD'S HIGH PERFORMANCE TCP/IP, WIT NFS CLIENT & SERVER FOR DOS & WINDOWS



Hummingbird, the recognised leader in PC-to-UNIX connectivity software, now brings you the best in internetwork computing.

NFS Maestro TCP/IP for DOS & Windows provides a fast TCP/IP stack complete with a high performance Network File System (NFS) client and server. Seamless network access to many different computing environments such as UNIX, VMS, Macintosh computers, IBM mainframe and the Internet is provided through an extensive set of network client / server applications for Windows users.

Hummingbird Communications Limited has acquired Beame and Whiteside in a takeover in early 1995. NFS Maestro is the Beame and Whiteside NFS product, further enhanced and reintroduced by Hummingbird Communications.

Logix

Bangalore : Bhramhalingheshwara Complex, 493/3, Airport Road, Bangalore - 560 008., Tel : 080-526 3687/ 526 0127 Fax : 080-526 3429
eMail : 72102.2056@compuserve.com.

Bombay : 206, Bake House, Maharashtra Chamber of Commerce Lane, Kala Ghoda, Fort, Bombay - 400 023. Tel : 022 - 2846222 Fax : 022 - 2057448

HUMMINGBIRD COMMUNICATIONS LTD.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Developer	Price	RQS No
NLM/Sybase Workgroup 16 User	Sybase	295,000	E01737
NLM/Sybase Workgroup 32 User	Sybase	490,000	E01738
NLM/Sybase Workgroup 48 User	Sybase	750,000	E01739
NLM/Sybase Workgroup 64 User	Sybase	850,000	E01740

DTP/GRAPHICS

agemaker 5.0A Win LITE	Adobe	7,950	E011730
llustrator 4.1	Adobe	21,950	E011732
llustrator 6.0 Mac	Adobe	19,950	E011733
hotoshop 3.0.4 Win	Adobe	31,950	E011735
hotoshop 3.0 Mac/Win 5 user	Adobe	132,950	E011736
ersuasion 3.0 Win	Adobe	13,950	E011737
remiere 4.0 Win	Adobe	28,950	E011739
udition 1.0 Mac	Adobe	10,950	E011741
etch 1.2A Mac Server	Adobe	6,950	E011745
etch 1.2A Mac 10 user	Adobe	82,950	E011747
uperATM Mac	Adobe	6,950	E011748
uperATM Mac 5 user	Adobe	23,950	E011749
ype Align 2.1 Win/Mac	Adobe	3,950	E011750
ype Manager Win/Mac	Adobe	2,950	E011751
ype On Call 4.0 Win	Adobe	2,950	E011756
crobat 2.1 Win	Adobe	8,950	E011757
crobat Pro 2.1 Win	Adobe	22,950	E011758
D Studio 4 DOS	Autodesk	28,000	E011471
nimator Studio Win	Autodesk	20,000	E011473
nimator Pro DOS	Autodesk	20,000	E011474
orelDraw 3.0 CD	Corel	4,950	E011703
orelDraw 4.0 CD	Corel	7,950	E011705
orelDraw 4.0 (Disks & CD)	Corel	9,950	E011706
orelDraw 5.0 CD	Corel	24,950	E011708
orelDraw 5.0 (Disks & CD)	Corel	32,950	E011709
orel Ventura 5.0 CD	Corel	17,950	E011717
orel Ventura 5.0 Disks	Corel	21,950	E011718
orel Flow (Disks & CD)	Corel	4,950	E011720
orel Photo-Paint 5 Plus CD	Corel	4,950	E011722
amemaker 4.0 Win/Mac	Frame	34,950	E011765
amemaker 4.0/Win 1dl user	Frame	30,950	E011766
ameviewer 4.0 for Win/Mac	Frame	2,950	E011767
ameviewer 4.0 5 user	Frame	6,950	E011768
tus Freelance DOS	Lotus	16,000	E011564
eelance Graphics DOS/Win	Lotus	12,000	E011554
rector 4.04 Win/Mac	Macromedia	48,950	E011769
tion 3.0 Win	Macromedia	8,950	E011770
tion 1.0.4 Mac	Macromedia	8,950	E011771
thorware 3.0 Win/Mac	Macromedia	189,950	E011772
acromodel 1.5 Win/Mac	Macromedia	39,950	E011773
werpoint 4.0	Microsoft	15,390	E011857
werpoint Win 95	Microsoft	15,390	E011859
ntpack 1/2 for Win 1.0	Microsoft	2,170	E011891
blisher for Win 2.0	Microsoft	4,330	E011888
blisher Design Pack/Win 2.0	Microsoft	1,230	E011890
Font Set for Win 1.0 MLP	Microsoft	1,740	E011894
eType Master Set	Microsoft	1,610	E011896

MS DEVELOPMENT TOOLS

ofessional Basic for MS-DOS 7.10		18,720	E01448
ick Basic for MS-DOS 4.50		7,530	E01449
ual Basic for Win 4.00 Update		2,660	E01450
Visual Basic for Win 4.00		5,320	E01451
Visual Basic for MS-DOS 1.00		7,530	E01452
Visual Basic for MS-DOS AE 1.00		1,890	E01453
Visual Basic for Win 3.00 Mul 10 UserAE		11,310	E01454
Visual Basic Pro for Win 3.00 CompUpg CD-ROM		11,150	E01458
Visual Foxpro for Win 3.00 Upg 3.5"		5,550	E01460
Foxpro for Mac 2.60 AE 3.5" IntlEng (A)		4,880	E01461

MEMORY MANAGEMENT

Cleansweep	Quarterdeck	2,890	E011531
DESQVIEW/X	Quarterdeck	13,890	E011525
DESQVIEW	Quarterdeck	4,990	E011528
DESQVIEW/386	Quarterdeck	7,690	E011529
QEMM 7.1	Quarterdeck	4,990	E011524

OPERATING SYSTEMS & NETWORKING

Win NT Server 3.51	Microsoft	41,030	E011775
Win NT Client 3.5 MLP	Microsoft	2,050	E011777
Win NT Client 3.5 20 User MLP	Microsoft	32,850	E011778
Win NT Workstation 3.5	Microsoft	17,820	E011813
Win NT Workstation 3.5 MLP	Microsoft	15,130	E011814
Win NT Workstation 3.5 20 User MLP	Microsoft	285,120	E011815
MS DOS 6.22 RUP	Microsoft	2,050	E011897
MS DOS 6.22 RUP 20 User MLP	Microsoft	32,770	E011899
Win for Workgroup 3.11	Microsoft	5,810	E011900
Win for Workgroup 3.11 MLP	Microsoft	5,030	E011901
Win for Workgroup 3.11 20 user MLP	Microsoft	93,100	E011902
Win 95	Microsoft	6,770	E011906
Win 95 MLP	Microsoft	6,190	E011907
Win 95 Version Update	Microsoft	4,670	E011908
Personal Netware	Novell	3,950	E011658
Novell DOS 7	Novell	2,950	E011659
Netware 3.12 5 Users	Novell	35,950	E011660
Netware 3.12 25 Users	Novell	118,950	E011662
Netware 3.12 50 Users	Novell	159,950	E011663
Netware SFT 4.1 Upto 100 users	Novell	47,950	E011672
Netware 4.1 5 User CD	Novell	35,950	E011674
Netware 4.1 25 User CD	Novell	118,950	E011676
Netware 4.1 50 User CD	Novell	159,950	E011677
SCO Desktop System 1 user CD	SCO	46,800	E011491
SCO Enterprise System 5 user CD	SCO	76,400	E011493
SCO Development System	SCO	46,800	E011494
SCO Openserver 10 user Host/Server	SCO	30,000	E011495
SCO Openserver 25 user Host/Server	SCO	60,400	E011496

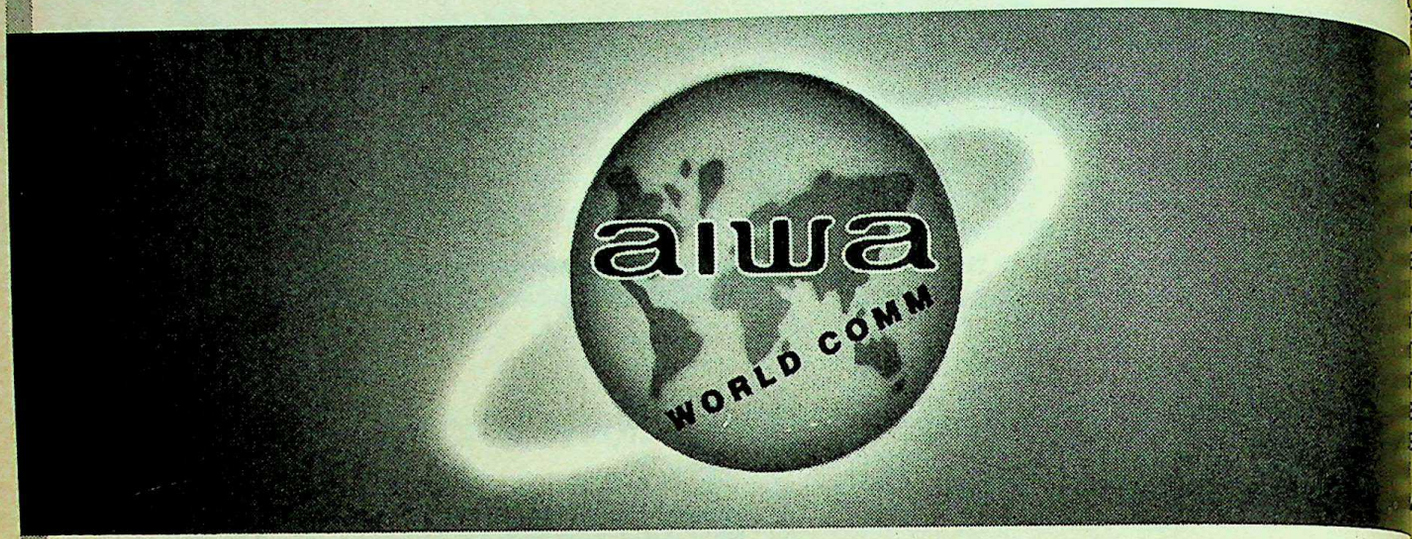
PROGRAMMING TOOLS AND LANGUAGES

Borland C++ 4.5 DB Tools Super Pack	Borland	41,950	E011629
Borland C++ 4.5 DOS	Borland	19,950	E011630

CC-0. Vasishtha Tripathi Collection. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE WORLD OF AIWA



Limitless products from one single source

AIWA PV-BF288
28.8 Kbps fax modem
LED's for status check

AIWA PV-AF144AH
14.4 Kbps Fax modem with backlit amber colour LCD display, builtin power supply, RF filter protection.

AIWA PV-JF144
14.4 Kbps PCMCIA fax modem for notebook computers & laptops

AIWA PV-M24B5H
2.4 Kbps Pocket modem with dual power supply

AIWA TD-811 B
Internal Tape Drive IDE
Storage Capacity 350MB

AIWA TD-P250
External Tape Drive parallel port storage capacity is 350 MB

AIWA A CD-300
External CD ROM drive with double speed

AIWA TS-CD 20
SC-C 77, SC-C 55,
SC-C 47, SC-C 27
High power multimedia speakers connected to CD-ROM & HP - CW 501 wireless headphone

C-TEL
THE SOLUTIONS PEOPLE

C-Tel Infotech Ltd. : 38, Kamer Building, 5th Floor, Cawasji Patel Street, Fort, Bombay - 400 001.
Tel : 202 2066 / 202 2386 • Fax : 202 1362

OUR CHANNEL PARTNERS

● **Ahmedabad** - Connectwell Sales & Marketing Tel. : 657 8136, 657 8567 ● **Baroda** - Revapex Tel. : 326 892, 323 07
● **Bangalore** - C-Tel Infotech Ltd. Tel. : 557 3640, 554 2853, Beta Information Technologies Tel. : 226 9881, 228 115
Compunet Tel. : 332 6958, 332 7549, Emit Corporation Tel. : 336 9996, 331 3933, Fegro Microsystems Tel. : 557 68
● **Bhopal** - Sam Systems Tel. : 556 569 ● **Bombay** - HQS Computers Tel. : 808 3561, 862 8008, Avion Electronics
Tel. : 388 0237, 385-8959, Softlink Services Tel. : 514 5419, 514 7164, Gala Computers Tel. : 412 8826, Point 2 Point
Communication Tel. : 632 0585, 633 2215, Pineapple Computers Tel. : 389 6104, Netlink Systems Tel. : 808 7527, 204 12
● **Calicut** - Compuline Tel. : 60499 ● **Chandigrah** - Maxpro Networking Solutions Tel. : 704 494, Microlinks Tel. : 709 58
700 001 ● **Delhi** - C-Tel Infotech Ltd. Tel. : 622 2652, 642 9329, Belcom Services Tel. : 621 5822, Computer Point Ltd
Tel. : 687 3626, 603 117, Manak Computer Tel. : 723 1968, Microunike Computer Systems Tel. : 646 3807, 646 005
Prosoft Computer Services Tel. : 510 5218, 542 8526, ● **Goa** - The Computer Shop Tel. : 223 712, 228 64
● **Madras** - C-Tel Infotech Ltd. Tel. : 823 2687, Computer Lab Tel. : 621 3971, 621 3927, Essell Systems Tel. : 581 74
Fibernet Systems Tel. : 492 5850, Helix Automation (P) Ltd. Tel. : 617 110, 615 478, National Instruments Tel. : 844 09
855 5564, Sap Computers (P) Ltd. Tel. : 434 0858, ● **Madurai** - C - Plus Tel. : 540 995 ● **Nasik** - Comptek Tel. : 578 04
● **Pune** - Chips & Trade Tel. : 322 642 ● **Rajkot** - Iolenz Tel. : 45763 ● **Udaipur** - Apex Informatics Tel. : 414 33
● **Trichy** - Riveraa Computers Tel. : 432 118, 432 064

DEALERSHIP ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Developer	Price	RQS No
Borland C++ 4.5 Win NT	Borland	11,950	E011631
Borland C++ 4.5 and Database Tools	Borland	28,950	E011630
Borland DatabaseEngine for Win	Borland	15,950	E011632
Borland Visual Solution Pack	Borland	3,950	E011633
Borland Power Pack for DOS	Borland	3,950	E011634
Runtime Library Source Code	Borland	3,950	E011636
Turbo Assembler DOS	Borland	3,950	E011637
w/ Turbo Brief for DOS	Borland	4,950	E011639
Borland Pascal 7 with Objects DOS/Win	Borland	19,950	E011640
Turbo C++ 3.0 for DOS	Borland	6,950	E011641
Turbo C++ VisualEdition for Win	Borland	6,950	E011642
Turbo Pascal 7.0 DOS	Borland	6,950	E011643
Borland SQL Link for Win	Borland	3,950	E011644
SQL Programmer Toolkit for Win NT 4.21	Microsoft	25,570	E011807
Multimedia Toolkit for Win	Microsoft	12,330	E011912

SUITES

Clarisworks 3.0 Win	Claris	5,950	E011760
Notesuite Desktop	Lotus	24,000	E011589
SmartSuite 3.0 (Disks & CD)	Lotus	19,000	E011560
SmartSuite 3.0 5 user	Lotus	72,500	E011561
SmartSuite 3.0 10 user	Lotus	135,000	E011562
Office 4.2 Std	Microsoft	18,500	E011860
Office 4.3 Pro	Microsoft	23,500	E011862
Works for DOS 3.0	Microsoft	4,330	E011881
Works for Win 3.0	Microsoft	4,330	E011884
Works for Win 95	Microsoft	3,460	E011885
PerfectOffice 3.0 Std	Novell	22,950	E011692
PerfectOffice 3.0 Pro	Novell	29,950	E011695

WORD PROCESSORS

Lotus Amipro	Lotus	4,750	E011557
Word 6.0 for DOS	Microsoft	15,300	E011871
Word 6.0 for Win	Microsoft	15,300	E011873
Word Assistant for Win 1.0	Microsoft	2,030	E011877
Proofing Tools for Win/DOS	Microsoft	3,080	E011878
WordPerfect 6.0 DOS	Novell	9,950	E011683
WordPerfect 6.1 Win	Novell	14,950	E011685
Wordstar 7.0	Wordstar	2,990	E01685
Wordstar 6.0	Wordstar	1,990	E01686
Wordstar 4.0	Wordstar	990	E01687
Wordstar 6.0 (Server Pack)	Wordstar	1,990	E01688
Wordstar 6.0 (Node)	Wordstar	1,500	E01689
Wordstar for Win 4.0	Wordstar	1,500	E01690
Wordstar for Win 4.0	Wordstar	4,995	E01691

SPREADSHEETS

Lotus 1-2-3 2.4	Lotus	12,000	E011548
Lotus 1-2-3 2.4 5 user	Lotus	48,000	E011549
Lotus 1-2-3 4.0	Lotus	13,500	E011551
Lotus 1-2-3 4.0 5 user	Lotus	54,000	E011552
Lotus 1-2-3 5.0	Lotus	12,000	E011555
Excel 5.0 Win	Microsoft	15,390	E011852
Excel for Win'95	Microsoft	15,390	E011856
Quattro PRO 5.5 DOS	Novell	2,950	E011699
Quattro PRO 5.5 DOS 10 user	Novell	29,950	E011700

PROJECT MANAGEMENT

MS Project 4.0 DOS	Microsoft	16,480	E011866
MS Project 4.0 Win	Microsoft	23,140	E011867
MS Project for Win 95	Microsoft	23,440	E011868

UTILITIES

Visual Baler	Baler	14,590	E011537
Baler 6.0	Baler	14,590	E011538
Slicer/Dicer 1.0	Baler	43,990	E011543
Format	Baler	16,990	E011544
Sidebar	Quarterdeck	2,890	E011530
Norton Utilities 8.0 DOS/WIN	Symantec	6,400	E01662
NortonEditor 2.0 3.5"	Symantec	3,600	E01663
Norton Commander 5.0 DOS	Symantec	3,600	E01664
Norton Backup 2.2 DOS 3.5"	Symantec	5,400	E01665
Norton Backup 3.0 WIN 3.5"	Symantec	6,400	E01666
ACT! 2.0 WIN 3.5"	Symantec	7,800	E01667
ACT! 2.0 WIN Mobile Link 3.5"	Symantec	17,300	E01668
ACT! 2.1 DOS 5-Node	Symantec	23,600	E01669
Q&A 4.0 DOS 3.5"	Symantec	12,000	E01670
Q&A 4.0 DOS 3-Node 3.5"	Symantec	23,500	E01671
Q&A 4.0 WIN 3.5"	Symantec	9,800	E01672
Q&A 4.0 WIN 3 Node 3.5"	Symantec	17,900	E01673
NAV 10-User/NetWare 2.0 Dos/Win	Symantec	14,900	E01674
NAV 50-User/NetWare 2.0 Dos/Win	Symantec	161,000	E01675
NAV 10-User/Networks 2.0/Win	Symantec	23,000	E01676
NAV 50-User/Networks 2.0/Win	Symantec	108,000	E01677
Norton Utilities Administrator/ 5-User			
Norton Utilities Administrator/ 25-User	Symantec	36,500	E01679
NAV for Win 95 3.5"	Symantec	3,600	E01680
Norton Utilities/Win95 3.5"	Symantec	6,400	E01681
PC Tools Pro Dos V9.0 3.5"/5.25"	Sonata	6,995	E01682
PC Tools Pro Dos V9.0 3.5" AE	Sonata	5,000	E01683
PC Tools Win V2.0 3.5"	Sonata	6,995	E01684
Norton Desktop for DOS/WIN 3.0	Symantec	5,600	E01715
Norton Utilities 8.0	Symantec	5,600	E01716
Norton PC Anywhere DOS/WIN 5.0	Symantec	6,200	E01717
Norton Antivirus 3.0	Symantec	4,050	E01720
Norton Antivirus for Netware 2.0	Symantec	13,975	E01721
PC Tools Pro DOS 9.0	Central Point	6,975	E01722
PC Tools Win 2.0	Central Point	6,975	E01723
CP Antivirus Dos 2.2	Central Point	4,500	E01724
CP Antivirus Win 2.0	Central Point	4,500	E01725
Xtree Tools for Netware 1.5	Central Point	4,000	E01726
CP Antivirus for Netware Dual 5 User 2.5	Central Point	19,950	E01727
CP Antivirus for Netware Dual 10 User 2.5	Central Point	30,500	E01728
CP Antivirus for Netware Dual 50 User 2.5	Central Point	110,000	E01729
Nashpack Rel 3.0	TCS	5,495	E01712

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

FINANCIAL ACCOUNTING

E.X 3.0	TCS	9,950	E01706
E.X 3.0 LAN	TCS	19,950	E01707
E.X 2.0	TCS	4,950	E01708

OTHERS

Stellar 4.0	Unistal	3,990	E01713
Marg Darshak 1.0	Unistal	990	E01714

HOME APPLICATIONS AND GAMES

Product	Type	Price	RQS No
Bookshelf for Win 1995	CD-ROM	3,110	E01462
Bookshelf for Win95 1995	CD-ROM	3,110	E01463
Bookshelf for Mac 1995	CD-ROM	3,110	E01464
Encarta for Win 1995	CD-ROM	4,330	E01465
Encarta for Win95 1996	CD-ROM	2,180	E01466
Encarta for Mac 1995	CD-ROM	4,330	E01467
Encarta World Atlas for Win95 1.00	CD-ROM	2,180	E01468
Explorapedia/People for Win1.00 AE	CD-ROM	1,300	E01469
AutoMap Road Atlas for Mac 2.00	3.5"	1,640	E01470
Flight Simulator for MS-DOS 5.00	3.5"	2,020	E01471
Flight Simulator for Mac 4.00	3.5"	2,020	E01472
Space simulator for MS-DOS 1.00	CD-ROM	2,020	E01473
Entertainment Pack 1 for Win 1.00	3.5"	1,240	E01474
Entertainment Pack 2 for Win 1.00	3.5"	1,240	E01475
Entertainment Pack 3 for Win 1.00	3.5"	1,240	E01476
Entertainment Pack 4 for Win 1.00	3.5"	1,240	E01477
Golf Course for Win 1.00	3.5"	930	E01478
SoundBits-MGM Movies for Win 1.00	3.5/5.25"	780	E01479
SoundBits-Musical Inst for Win 1.00	3.5/5.25"	780	E01480
Home Sampler for Win 1.00 Rel 3	CD-ROM	150	E01481
Arcade for Win 1.00	5.25"	1,240	E01482
Arcade for Mac 1.00	3.5"	1,240	E01483
Beethoven's 9th for Win 1.10	CD-ROM	1,300	E01484
Musical Instruments for Win 1.00	3.5/5.25"	1,300	E01485
Musical Instruments for Mac 1.00	CD-ROM	1,300	E01486
Musical Instruments for Mac 1.00	CD-ROM	1,300	E01487
Cinemania for Win 1995	CD-ROM	2,490	E01488
Cinemania for Win95 1996	CD-ROM	1,300	E01489
Cinemania for Mac 1995	CD-ROM	2,490	E01490
Ancient Lands for Win 1.00	CD-ROM	1,300	E01491
Ancient Lands for Mac 1.00	CD-ROM	1,300	E01492
Dinosaurs for Win 1.00	CD-ROM	1,300	E01493
Dinosaurs for Mac 1.00	CD-ROM	1,300	E01494
Mozart for Win 1.00	CD-ROM	1,300	E01495
Flight for Win 1.00	CD-ROM	1,300	E01496
Flight for Mac 1.00	CD-ROM	1,410	E01497
Complete Baseball for Win 1995	CD-ROM	1,300	E01498
Basketball for Win 1995	CD-ROM	1,300	E01499

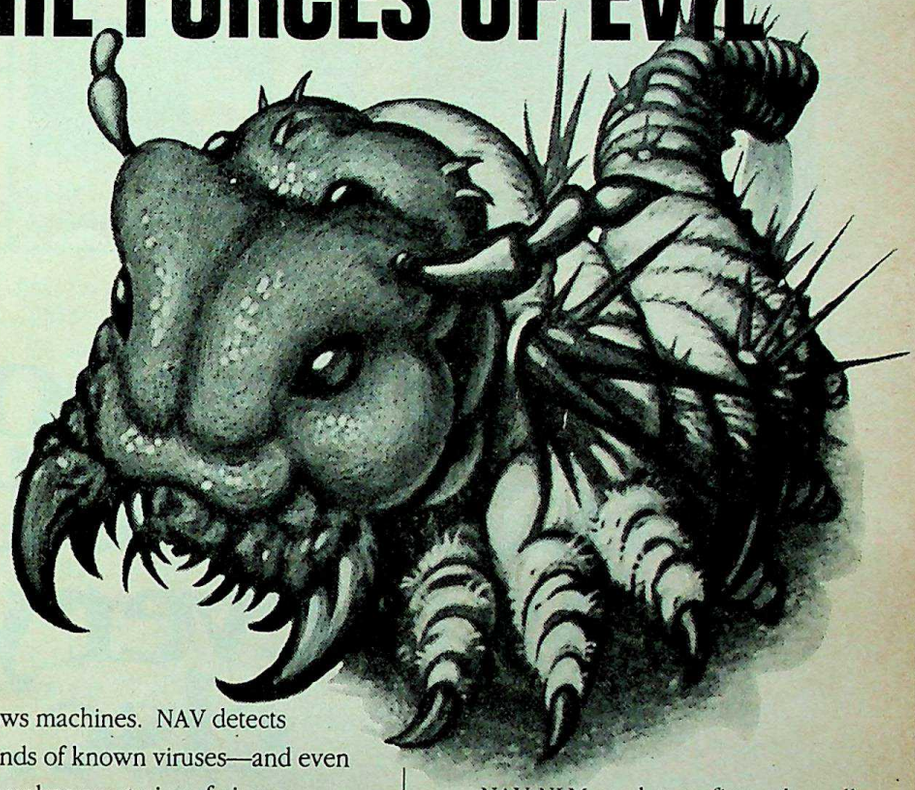
Product		Price	RQS
Basketball for Win95 1996	CD-ROM	1,300	E
Base Ball Cards/Game	CD-ROM	1,100	E
ManEnough/Game	CD-ROM	1,452	E
Always Arthur/Story	CD-ROM	1,518	E
Star Legions/Game	CD-ROM	1,452	E
13 Bureau/Game	CD-ROM	1,320	E
Who Wants Arthur/Story	CD-ROM	1,518	E
Vistapro/Graphics on Mountains	CD-ROM	594	E
Beethovens' 5th/Music		1,980	E
Clipart Heaven/Clipart		330	E
Computer Select/Tutorials		990	E
Buster's First Thunderstorm/ Story		1,112	E
16 Bit Sound Masterpiece/ Computer		1,100	E
Super CD/Shareware		1,452	E
Project-X/Game		1,386	E
Ultimate Blows		860	E
Arcade Pool/Game		1,386	E
Sound Sensations/Sound		1,650	E
Super CD-3/Shareware		1,452	E
5 Star Game		1,320	E
Our House/The Family Circus		890	E
Shareware Heavens (2)		924	E
Dragon's Lair/Game		1,386	E
Me And My World/Education		1,320	E
Adventures in Heaven		1,150	E
Win Heaven/Shareware		330	E
Shareware 2 Heaven		924	E
Learning Heaven		330	E
Company Disclosure		1,100	E
Media Library		1,100	E
Magic Boy/Game		1,122	E
Whizz/Game		1,320	E
Computer Works		1,130	E
Jungle Strike/Game		1,914	E
Retribution/Game		1,782	E
Inferno/Game		2,178	E
Protostar		1,210	E
Ringworld		594	E
Soccer Kid/Game		1,320	E
Star Crusader		1,210	E
1000 of the World's SoundEffects		1,200	E
World Atlas/Game		1,386	E
Doctor's Book of Home Remedies		890	E
James Pond2 Crazy Football Moonshine Racers Thunders Strike		1,780	E
Shakespeare Classic-Macbeth		1,210	E
Body Works Voyagers		990	E
Cinema '95		1,800	E
Bookshelf '94		1,800	E
Microsoft Works		1,800	E
Sliver (Novell)		1,800	E
Indecent Proposal		1,800	E
Learn to Use Win '95		718	E
Learn to Use Win '95		718	E
Learn to Use Your PC		1,078	E
Learn to Use DOS (DOS 6.2)		1,078	E
Learn to Use Win (3.1)		1,078	E
Learn to Use Lotus 1-2-3		1,078	E
Learn to Use MAC		1,078	E

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

New NAV for NetWare supports NetWare Directory Services

THE RIPPER. SATAN'S BUG. THE PREDATOR. AN MIS DIRECTOR'S GUIDE TO THE FORCES OF EVIL

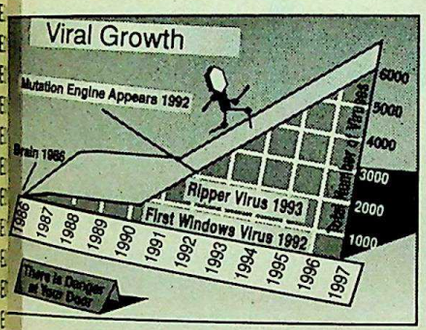


AN ENTERPRISE-WIDE SOLUTION FOR VIRUS CONTROL.

At Symantec, we understand the dangers of computer viruses better than anyone in the software industry.

Our Norton AntiVirus® products are the desktop standard for the prevention and eradication of viruses.

Now we're offering you a complete, enterprise-wide solution to the threat of computer contamination.



With the advent of menu-driven, virus construction kits on the underground BBS, viruses are now a mass produced commodity. The implications are frightening.

It includes Norton AntiVirus for NetWare™ (NAV-NLM) to protect all of your Novell® network servers.

Norton AntiVirus® (NAV) 3.0 for all of your DOS and Windows 3.x personal computers.

CENTRALLY DISTRIBUTED DESKTOP PROTECTION.

NAV 3.0 delivers exceptionally fast virus scanning with superior protection and file repair for all your DOS and Windows machines. NAV detects thousands of known viruses—and even locates unknown strains of viruses.

NAV 3.0 has it's own software distribution tool so that it can be distributed across your network from one central location. Your desk.

CENTRALLY CONTROLLED SERVER PROTECTION.

NAV-NLM thoroughly scans all DOS, Windows and Mac files on your servers for any viral activity whatsoever — even for the new stealth and polymorphic engine strains. A virus can change its code, but it simply can't hide from a NAV-NLM scan.

Peter Norton provides antivirus protection for your entire enterprise

NAV-NLM can be configured on all your servers from one central location, either individually or as a group.

To find out more about all of our Norton AntiVirus products, call for our Symantec White Paper on Enterprise-Wide AntiVirus Protection. It's the best antivirus guide available.

Because while you've been reading this, you know someone else has been up to something truly evil.

NAV-NLM for Rs.13,975/- & NAV 3.0 for Rs.3,000/-*

*** Special Offer valid only till stocks last.**

Infosys

INFOSYS TECHNOLOGIES LTD.

Navitra Complex', No.1, 2nd Cross, 27th Main, BTM Layout 1st Stage, Bangalore - 560 068. India
Tel: (080) 668 1755, 668 0182, 0183, 0184, 0185 Fax: (080) 668 0181
Branch Offices : **Bombay:** (022) 2846490, 2882911, 2882914 Fax: (022) 2846489, **Delhi :** (011) 608397, 605820, 676512 Fax: (011) 6885149
Infosys is the authorized representative of Symantec Corporation in India. All brand and product names are registered trademarks of their respective holders.

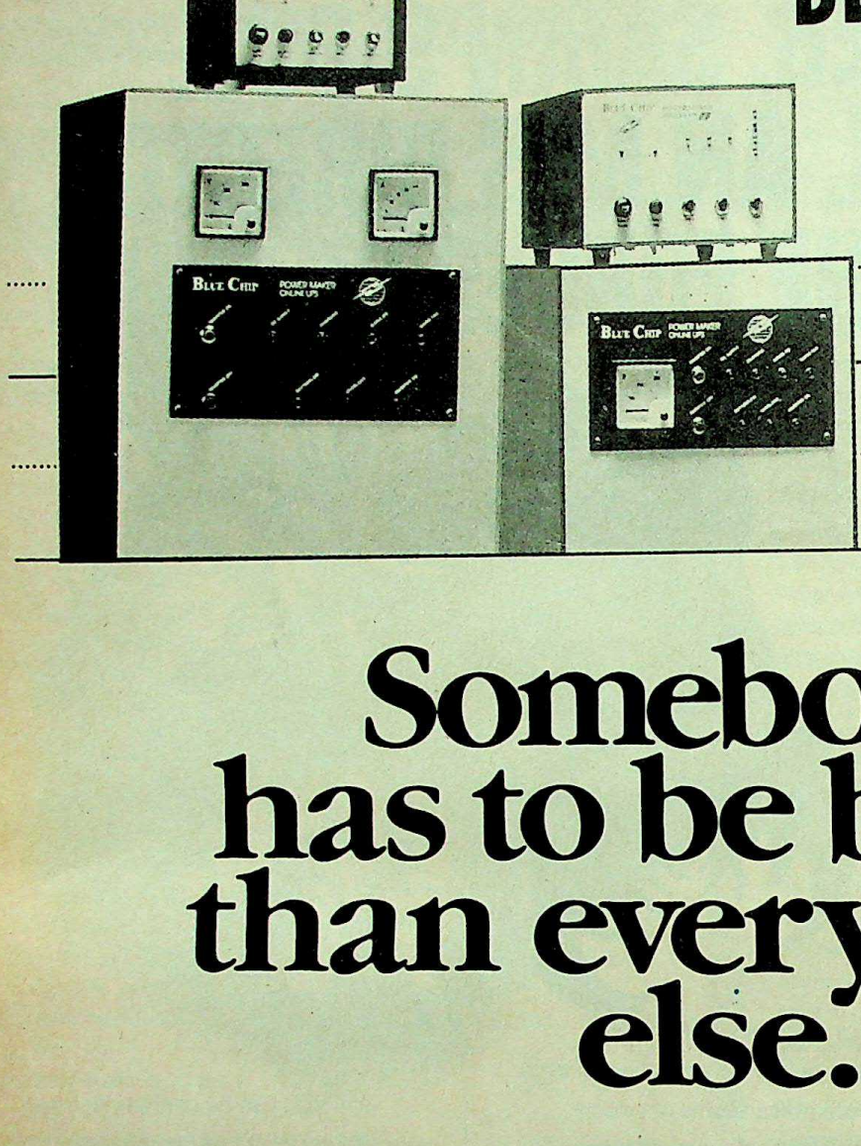
SYMANTEC.®
MANAGING THE ENTERPRISE.

SOLUS/INFS/0595

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BLUE CHIP UPS



ONLINE UPS

1 KVA to 12 KVA
PWM - MOSFET Technology

OFFLINE UPS

625 VA
Single Card Technology

Somebody has to be better than everybody else.

It's inevitable.

Somebody is always more determind. Works hard. And winds up on top.

Take **Blue Chip Technologies Limited**, for instance, we were the ones who helped developed the latest Technology ONLINE UPS & OFFLINE UPS.

And while everybody else was trying to figure out how to make them, we were busy making them better. With Superior material, latest ***PWM-MOSFET Technology*** and an almost fanatical corporate commitment to quality.

BLUE CHIP TECHNOLOGIES LIMITED

Head Office :
501, SKIPPER CORNER, 88 NEHRU PLACE, **NEW DELHI** - 110 019 PHONE : 6462130, 6221382, 6461642, 6462288. FAX : 91-11-6423843,

Branch Offices :
- B-31 ASHISH, CROSS ROAD NO. 2, SAMARTH NAGAR, LOKHANDWALA COMPLEX, ANDHERI (WEST), **BOMBAY** - 400 053, TEL/FAX : 6321105
- PUSHPRAJ, 40 HOSPITAL ROAD, **JAIPUR**-302 001. PHONE : 369818, 373859.

DEALERS PHONE NOs.
- **AIZAWL** (MIZORAM) 2308 • **BHILWARA** 24317, 25374, 23561 • **CHANDIGARH** 609629, 605249. FAX : 601699
- **INDORE** 537582. FAX 471890 • **JAMMU** 546974, 530187. FAX : 530187 • **JODHPUR** 34957 • **PATNA** 230007. FAX: 225192
- **SATNA** 25393 • **SHILLONG** 221817, 220280 • **VARANASI** 311824.

DEALERS ENQUIRIES SOLICITED

The Brain : 7188878

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Learn to Use Word for Win	1,078	E01581
Learn to Use WordPerfect	1,078	E01582
Learn to Type	1,078	E01583
Learn to Use Win,DOS & PC	1,078	E01584
Professor Win'95 Multimedia/Win	1,438	E01586
Multimedia Typing Instructor/Win	1,438	E01587
Professor Win Multimedia/Win	1,438	E01588
Professor Microsoft Office 2/Win	2,158	E01589
Professor Multimedia (Mac)	1,438	E01590
Professor Multimedia (Win)	1,438	E01591
Professor Win (3.1)	1,798	E01592
Professor for Ami Pro (3.0)	1,798	E01593
SmartGuide for DOS 6.22)	1,798	E01594
Professor for Excel (5.0)	1,798	E01595
Professor for Lotus 1-2-3 (5.0)	1,798	E01596
Professor Mac 7	1,798	E01597
Professor PC	1,798	E01598
Professor for Word (6.0)	1,798	E01599
Professor for WordPerfect (6.1/Win)	1,798	E01600
Professor Duo(Lotus 123 5.0 & W 6.1)	1,438	E01601
Professor Office 2 (Pro)	2,158	E01602
Professor Office (WordExcel & Any Time)	1,438	E01603
Professor Office (Word 6.0 & Excel 5.0)	1,798	E01604
Professor Suite (Lotus 123 4.0 & AmiPro v 3.0)	1,438	E01605
Typing Instructor (Win)	1,438	E01606
Typing Instructor (Mac)	1,078	E01607
The Rosetta Stone Power Pac (Win/Mac)	2,500	E01608
The Rosetta Stone-French Level A (Win/Mac)	8,800	E01609
The Rosetta Stone-German Level 1A (Win/Mac)	8,800	E01610
The Rosetta Stone-Spanish Level 1A (Win/Mac)	8,800	E01611
The Rosetta Stone-Russian Level 1A (Win/Mac)	8,800	E01612
The Rosetta Stone-English Level 1A (Win/Mac)	8,800	E01613
Individual Training for Ami Pro (Win)	2,518	E01614
Individual Training for cc:Mail (Win)	2,518	E01615
Individual Training for Lotus 1-2-3 (Win)	2,518	E01616
Individual Training for Lotus Approach(Win)	2,518	E01617
Individual Training for Lotus Freelance(Win)	2,518	E01618
Individual Training for Microsoft Access(Win)	2,518	E01619
Individual Training for MicrosoftExcel(Win)	2,518	E01620
Individual Training for Microsoft Mail(Win)	2,518	E01621
Individual Training for Microsoft Word(Win)	2,518	E01622
Individual Training for OS/2 (Win)	2,518	E01623
Individual Training for PageMaker (Win)	2,518	E01624
Individual Training for PowerPoint (Win)	2,518	E01625
Individual Training for Win (Win)	2,518	E01626
Individual Training for WordPerfect(Win)	2,518	E01627
Individual Training for Microsoft Office	10,080	E01628
Individual Training for Lotus Smartsuites	10,080	E01629
Individual Training for DOS	2,518	E01630
Individual Training for NOVELL DR DOS	2,518	E01631
Individual Training for PC (DOS)	2,518	E01632
Individual Training for dBASE IV (DOS)	2,518	E01633
Individual Training for LANs with Data Com (DOS)	2,518	E01634
Individual Training for Lotus 1-2-3 (DOS)	2,518	E01635
Individual Training for Lotus Macros (DOS)	2,518	E01636
Individual Training for Paradox (DOS)	2,518	E01637
Individual Training for Project Management/Dos	2,518	E01638
Individual Training for WordPerfect (DOS)	2,518	E01639
Individual Training for TypingInsructor/Dos	1,798	E01640
Individual Training for Mac (Mac)	2,518	E01641
Individual Training for Microsoft Excel(Mac)	2,518	E01642
Individual Training for Microsoft Word (Mac)	2,518	E01643
Individual Training for PageMaker (Mac)	2,518	E01644
Individual Training for Typing Instructor/Mac	1,798	E01645
Individual Training for Multimedia(Win & Mac)	3,598	E01646
Individual Training for Multimedia Typing Instructor/Win	1,798	E01647
Individual Training for Ami Pro/Win	3,598	E01648
Individual Training for cc:Mail (Win)	3,598	E01649
Individual Training for Lotus 1-2-3/Win	3,598	E01650

Prices provided by:

Microsoft, SCO, Borland, Novell, Corel, Lotus, Datastorm and

- **Quarterdeck products:** Dynamic Computer Services, Sun Flower, 170 Lloyds Road, Gopalapuram, Madras 600086. Tel: 44-8272726, 8271684, 8272749
- **Microsoft:** Microsoft, 24 Paharpur Business Centre, Nehru Place, New Delhi 110019.
- **Novell:** Onward Novell, Krislon House, 2nd Floor, Saki Vihar Road, Saki Naki, Bombay 400072. Tel: 22-8364180 Fax: 22-8364180
- **Lotus:** ITC, 28 Community Center, Basant Lok, Vasant Vihar, New Delhi 110057. Tel:11-6882556, 6872893. Fax: 11-6885339, 6872893
- **Oracle:** Oracle, 705 International Trade Tower, Nehru Place, New Delhi 110019. Tel: 11-6475286, 6475287. Fax: 11-6866494
- **AutoDesk:** HOPE, B-1 Geetanjali Enclave, New Delhi 110017. Tel: 11-6851979, 6866441. Fax: 11-6866494
- **CDs:** Lee & Nee Softwares, 14B Camac Street, Calcutta 700017. Tel: 033-4015153. Fax: 033-2477359
  Innoserv Systems, X-29 Hauz Khas New Delhi 110016. Tel: 11-6863058, 6968626 Fax: 696911
  Tulip Software, J-31, South Extension, Part-I, New Delhi-110049. Tel: 11-4620410, 4634402 Fax: 11-4610292
  Binary Semantics, A-6, C Block Community Centre, Naraina Vihar, New Delhi 110028. Tel: 11-533544, 5415615 Fax: 11-5437078, 5437084

◆ **Attention:** While all prices were current at the time of going to press, readers are advised to reconfirm them with the vendors before placing orders.

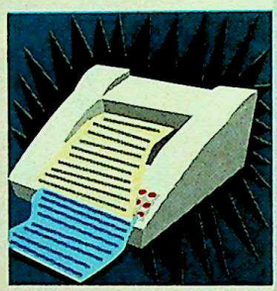
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Individual Training for Lotus Approach/Win	3,598	E01651
Individual Training for Lotus Freelance/Win	3,598	E01652
Individual Training for Microsoft Access/Win	3,598	E01653
Individual Training forMicrosoft Excel/Win	3,598	E01654
Individual Training for Microsoft Mail/Win	3,598	E01655
Individual Training for Microsoft Word/Win	3,598	E01656

Product	Price	RQS
Individual Training for PowerPoint/Win)	3,598	E01
Individual Training for Windows/Win	3,598	E01
Individual Training for WordPerfect/Win	3,598	E01
Individual Training for Microsoft Office/Win	13,140	E01
Individual Training for Lotus Smartsuite/Win	13,140	E01

PERIPHERALS



POINTING DEVICES

Product	Price	RQS No
Genius Easy Mouse	400	E011372
Genius Mouse One	665	E011373
Genius Mouse Too	800	E011374
Genius Mouse 3	700	E011375
Genius Cordless Mouse	2,835	E011376
Genius TrackBall	1,575	E011377
Genius Joystick	650	E011378
Primax Mouse I Musige	420	E011404
Primax Mouse II Musige	650	E011405
Primax Echo Mouse IV	400	E011406
Logitech First Mouse	825	E01256
Logitech Mouseman Combo	2,300	E01257
Logitech Mouseman Cordless	6,500	E01258
Logitech Trackman Portable	2,150	E01259
Logitech Trackman II	2,500	E01260
Vintron Mouse MD-14	575	E01261
Logitech Dexxa Mouse	525	E01262
Logitech Cyberman	5,500	E01263
Logitech Kidz Mouse	1,995	E01295
Logitech Mouseman Sensa	2,995	E01296
Logitech Trackman Voyager	2,995	E01297
Logitech Trackman Live	7,995	E01298
Logitech Trackman Marble	4,495	E01299
Logitech Trackman Vista	3,795	E01300

PRINTERS: DOT MATRIX

Epson LX 300/9 p/80 c/264 cps	8,900	E011196
Epson FX 1000/9 p/136 c/240 cps	14,375	E011197
Epson FX 1050/9 p/136 c/290 cps	17,500	E011198
Epson LQ 1020+/24 p/136 c/289 cps	25,625	E011199
Epson LQ 1170/24 p/136 c/289 cps	30,000	E011200
Epson DFX 5000+/9 p/155 c/555 cps	60,000	E011201

Product	Price	RQS
Epson DFX 8000/9 p/136 c/1066 cps	148,000	E011
TVSE MSP 145+/9 p/132 c	12,995+T	E011
TVSE MSP 155/9 p/132 c	18,995+T	E011
TVSE HD 6595/9 p/132 c	27,495+T	E011
TVSE MSP 240/9 p/80 c	9,500+T	E011
TVSE NOVO 130/9 p/80 c	6,750+T	E011
TVSE Calligra Q25/24 p/132 c	21,995+T	E011
Wipro LX 800/9 p/80 c	8,700	E011
Wipro LX 300/9 p/80 c	9,800	E011
Wipro LQ 100/24 p/80 c	12,100	E011
Wipro LQ 300/24 p/80 c	15,600	E011
WiproEX 1050/9 p/132 c	18,500	E011
Wipro FX 1170/9 p/132 c	27,700	E011
Wipro LX 1050/9 p/132 c	17,100	E011
Wipro LQ 1050+/24 p/132 c	25,000	E011
Wipro LQ 1170/24 p/132 c	39,270	E011
Wipro LQ 1070/24 p/132 c	26,650	E011

Note: **T**--Tax,**p**--pins,**c**—columns

PRINTERS: INKJET

Apple Style Writer 1200	20,500	E011
Apple Color StyleWriter 2200	30,200	E011
Apple Apple Color StyleWriter 2400	34,300	E011
Apple Color StyleWriter Pro	32,500	E011
HP DeskJet 600/600 d/512 kB	19,380	E011
HP DeskWriter 600/600 d/512 kB	19,380	E011
HP DeskJet 850C/600 d/1 MB	28,889	E011
HP DeskJet 1600C/8 p/600 d/4 MB	74,400	E011
HP DeskJet 1600CM/8 p/600 d/6 MB	108,500	E011
Epson Stylus 800 m	16,100	E011
Epson Stylus 1000/A2 m	41,500	E011
Epson Stylus 820/720 d/c	21,700	E011
Epson Stylus Color IIS/720 d/c	26,500	E011

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

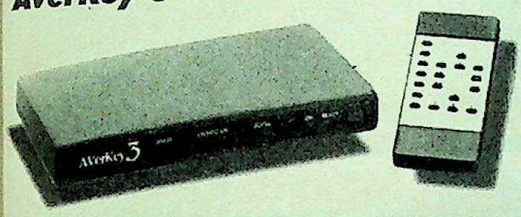
Digitized by Arya Samaj Foundation Chennai and eGangotri

The quiet revolution in Multimedia quite a revolution at that

The AverKey

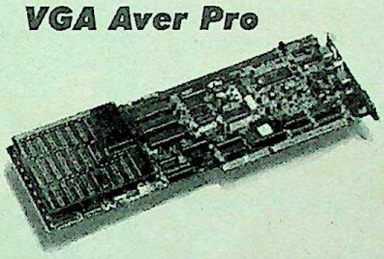
People have shouted their heads off about sound and music. Yet there are those who have silently forged ahead, breaking new ground, finding new applications. In other words - actually putting Multimedia to use. These are the ones who had heard AVerMedia the ones who had known about SASTEK . Now you are reading about these too. So where would you rather be ? A fiddler on the roof, or putting new

AverKey 3



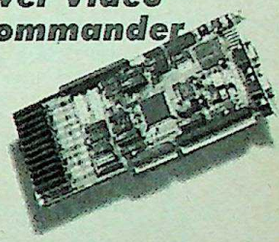
The ultimate business presentation tool. An external VGA to PAL converter with remote. No software drivers required. 4X zoom, freeze frame, upto 800X600 true colour display. Most extensive picture position and attribute adjustment controls that you ever heard of.

VGA Aver Pro



The powerful product tool that titling and video production professionals swear by. In extensive use at all major TV channels in India. Supreme genlock and overlay packed with 6 video display modes.

Aver Video Commander



The Real-time True colour video controller and frame grabber that stole the show in election ID cards application India - wide. Delivers best quality video on PC in its class.

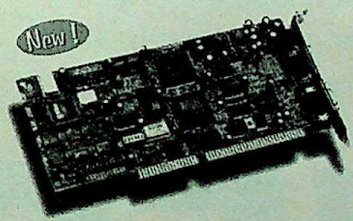
Aver VideoEditor

New!

If you are making home/event videos. Sales or presentation videos. This is the product that you could ever dream of. Edit video, add titles, graphics and animations onto live video, capture single video images and project computer screens to large TVs. A virtual

Aver MovieMate

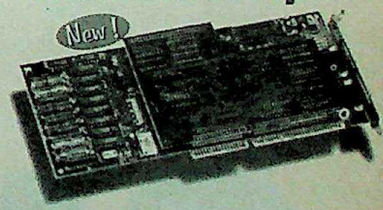
New!



The MPEG audio/video playback board that will turn your PC into a Movie theatre. Delivers full motion, true colour video playback with resolutions upto 1024X768. Scalable video window from 1/16 to full

Aver MotionCaptor

New!



The Real-time full motion video compression board. With upto 2MB DRAM and hardware based motion JPEG encoder decoder on board. Check it out today if you are even thinking of full motion video.

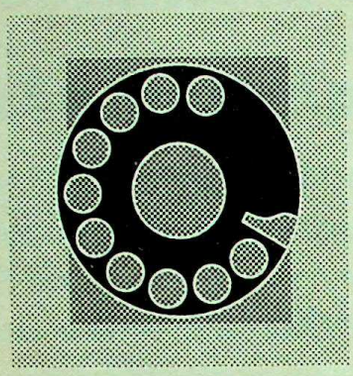
the quite revolution of AVerMedia brought to you by SASTEK

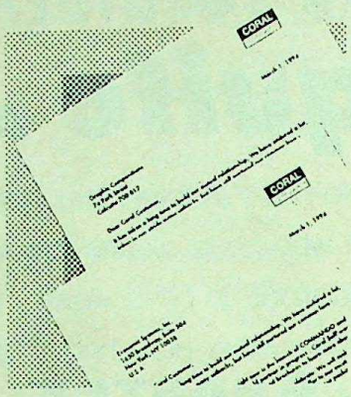
SASTEK ELECTRONICS PVT. LTD.
B - 10, Hemkunt Towers, 98, Nehru Place, New Delhi 110 019
Tel : 646 4505 / 646 1569 Fax : 646 1569 / 644 4969

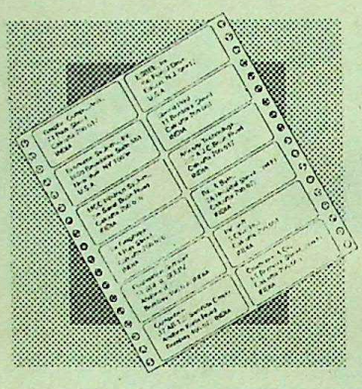
OVATION

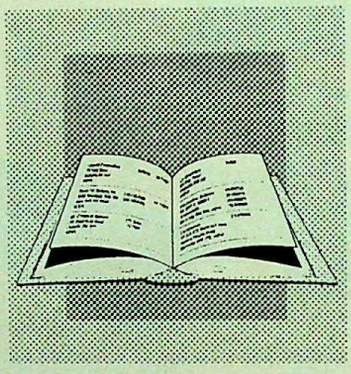
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri









Features

- Pocket size phone book •
- Address book •
- Built-in word processor •
- Mail merge letters •
- B'day & Anniversary Reminder •
- Telephone dialer •
- User defined fields •
- Tailor made reports •

OMEGA

Personal Information System

CORAL SOFT'WARE

Coral Consultants Pte Ltd
157c Lenin Sarani Calcutta 700 013 Tel: 275091, 267238 Fax: 033-2214212 email: coral@cirrus.lwbbs.co

Distributors: Reliable Infotech Suite 315, 33/1 N S Road, Calcutta 700 001 Tel: 2214212 2211703 Fax: 033-221
Dealer Network: Bombay 5164713 Dehradun 24551 684159 Durgapur 823443 Golaghat 20207 20292 Hyderab
599829 231027 Jamshedpur 427471 431630 Lucknow 72342 Madras 582293 Patna 227184 Raipur 27214 Ranch
202020 Raniganj 446271 Shillong 220244 Surat 634152 Varanasi 361984

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Epson Stylus Color II/720 d/c	31,500	E011254
Epson Stylus Pro/720 d/c	44,500	E011255
Epson Stylus Pro XL/720 d/A3 c	131,000	E011256

Note: **d**--dpi, **c**--color, **m**—monochrome, **p**--pages per minute

PRINTERS: LASER

Apple LaserWriter 4/600	55,000	E011339
Apple LaserWriter Select 360	75,000	E011340
Apple LaserWriter 16/600 PS	150,000	E011342
Apple QuickTake 150 for Mac	38,900	E011343
Apple Color LaserWriter 12/600	412,500	E011345
HP LaserJet 4+/12 p/600 d/2 MB	94,350	E011163
HP LaserJet LJ 4M+/12 p/600 d	127,600	E011164
HP LaserJet LJ 4V/16 p/600 d	130,050	E011167
HP LaserJet LJ 4MV/16 p/600 d	188,700	E011168
TVSE Impress P20	29,995+T	E011247
EpsonEPL 3000	34,000	E011248
EpsonEPL 9000 A3 Laser	172,000	E011249

Note: **p**--pages per minute, **d**--dpi

SCANNERS

Genius Scanmate 32	4,000	E011380
Genius Easy Scan 256	5,500	E011381
Genius Scanmate Color	11,500	E011382
Genius Color Page I	36,000	E011383
Genius Color Page II	48,000	E011384
Genius Fast Reader	18,000	E011385
Primax SE42IX/HS	4,000	E011407
Primax SE42IG/HS	5,500	E011408
Primax SM403C-P/MS	18,500	E011409
Primax SP311/Datapen	14,200	E011410
Primax Deskscan/Color FS	34,000	E011412
Logitech Scanman 32	5,200	E01264
Logitech Scanman 256	7,650	E01265
Logitech Scanman Easytouch	10,750	E01266
Logitech Scanman Color	13,900	E01267
Logitech Scanman Powerpage	29,000	E01268
Dexxa GS 32 Scanner	4,900	E01269
Dexxa GS 256 Scanner	7,500	E01270

Note: **HS**—Hand Scanner, **MS**—Mobile Scanner, **FS**—Flatbed Scanner

MODEMS

Product	Max Speed	Price	RQS No
AT&T Comsphere 3810+	33,600	95,000	E011941
AT&T Comsphere 3920+	33,600	125,000	E011942
AT&T Dataport 2001	14,400	32,000	E011943
Motorola Lifestyle V34	28,800	9,900+T	E011234
Motorola 3266 V32 bis	28,800	40,000+T	E011235
Motorola 3266 V34	28,800	95,000+T	E011236
Motorola 3266 V34 SDC	28,800	120,000+T	E011237
Mutitech MT2834DX	28,800	18,950	E011947
Mutitech MT2834BL	28,800	41,950	E011948
Nomus 9624 SE	2,400	7,500	E011949
Nomus 9624 SA	2,400	10,000	E011950
Nomus 1414 PC	14,400	10,000	E011951
Nomus 1414 SI	14,400	17,500	E011952
Nomus 1414 SD	14,400	25,000	E011953
Onetics Triton 14400	14,400	11,080	E011946
Onetics Triton 28800/SA	28,800	22,960	E011945
TeamLink 2024E	2400	5,800	E011935
Teamlink 2144E	14,400	8,500	E011936
USR Courier V.34	28,800	45,500	E011931
USR Sportster V.34	28,800	25,500	E011932
USR Sportster SP14400	14,400	14,500	E011933
USR PCMCIA Fax Modem	14,400	16,500	E011934
ZyXel Elite 2864	28,800	36,000	E011944
Sportster SP 28800 (E)	28,800	22,500	E01383
Sportster SP 28800 (I)	28,800	19,500	E01384
Sportster SP 14400 (E)	14,400	13,500	E01385
Sportster SP 14400 (I)	14,400	11,500	E01386
Sportster SI 14400 (E)	14,400	8,500	E01387
Sportster VI 14400 voice	14,400	17,500	E01388
Sportster PCMCIA World Port V.32 bis		17,500	E01389
Courier V.34	28,800	43,500	E01390
Microsense 14400 Data/Fax	14,400	11,500	E01391
Microsense 28800 Data/Fax	28,800	17,500	E01392

Note: Delrina software (DOS/Win) is supplied with US Robotics & Microsense modems

UPSS

Product	Rating	Price	RQS No
APC BK 250I	250VA	5,495	E01237
APC BK 400I	400VA	7,995	E01238
APC BK 600I	600VA	10,995	E01239
APC BK 900I	900VA	19,995	E01240
APC BK 1250I	1250VA	24,995	E01241
APC BP 280I	280VA	6,595	E01242
APC BP 420I	420VA	10,995	E01243
APC BP 650I	650VA	13,995	E01244
APC AP 600I	600VA	15,995	E01245
APC AP 900I	900VA	29,995	E01246
APC AP 2000I	2000VA	64,995	E01247
AP600I	600VA	28,650	E01421
AP900I	900VA	45,000	E01422
AP1250I	1250VA	60,500	E01423
AP2000I	2000VA	94,500	E01424
AP600XLI	600VA	63,750	E01425
AP900XLI	900VA	73,350	E01426
BP280I	280VA	11,200	E01430
BP420I	420VA	17,250	E01431
BP650I	650VA	24,000	E01432
BP1000I	1000VA	40,000	E01433
BP1400I	1400VA	51,500	E01434
BK250I	250VA	9,250	E01435
BK400I	400VA	13,950	E01436
BK600I	600VA	18,900	E01437
BK900I	900VA	32,600	E01438
BK1250I	1250VA	42,000	E01439
MX3000W	3000VA	215,000	E01440

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product		Price	RQS No
MX5000W	5000VA	297,000	E01441
Powerchute Software			
AP 9001/Mac		4,300	E01445
AP 9007/Plus for Win		3,000	E01446
AP 9009/Plus for Win NT		4,300	E01447

SMPS

Product	Price	RQS No
Vintron VIN-200W	1,175	E01289
Vintron ULTRA VIN-200W	950	E01290
Vintron VIN-150W	1,050	E01291
Vintron 200 W (Minitower)	2,075	E01292
Vintron 200 W (Desktop)	2,175	E01293

CARDS

MVGA FIRSTCARD W/O RAM (REALTEK)	650	E01220
VL VGA WITH 1 MB RAM	3,500	E01221
4-PORT SERIAL CARD	1,825	E01222
FAST SCSI CARD	6,250	E01223
8-BIT SCSI CARD	1,975	E01224
16-BIT IDE I/O CARD	550	E01225
32 BIT VL IDE CARD (NON CACHE)	775	E01226
Motherboard 486 VL Opti W/O Cache W/O CPU	2,800	E01274
Motherboard 486 SX UMC W CPU W/O Cache	3,500	E01275
Motherboard 386 DX-40 Opti	3,800	E01276
W 128K Cache W CPU	925	E01277
Add for 128K Cache		
Add for 256K Cache	1,850	E01278
Add for 80486 (DX2-66) CPU	2,500	E01279
32-Bit VL IDE Card with cache option	4,500	E01280
Sound Card	2,200	E01281
PCI 486 Mother Board	5,495	E01307
PCI Pentium Mother Board	7,595	E01308
PCI VGA Card	3,895	E01309

LAN PRODUCTS

16-BitEnet Card (BNC/RJ 45) W/O Boot Rom	1,275	E01282
16-BitEnet Card (BNC & RJ 45) W/O Boot Rom	1,525	E01283
Add for Boot Rom	115	E01284
8-PortEtherhub	6,600	E01285
Ethernet Car d 32 bit PCI (Trade)	4,750	E01286
Multi port print Server (Trade)	19,900	E01287
Single port print Server (Trade)	14,750	E01288

MULTIMEDIA

Voyager Pro 16 Upgrade Kit	12,500	E01119
CD-ROM Drive Quad speed	9,295	E01294

MONITORS

Product	Price	RQS No
Vintron HCN-28/NI/.28 dpi/14" c	11,500	E01230
Vintron HCI-28/I/.28dpi/14" c	11,100	E01231
Vintron First VGA Monochrome Monitor	Vintron 3,300	E01232
Ritika RCK 1421/I/.28 dpi/14" c	10,750	E01233
Ritika RCK 1441/NI/.28dpi/14" Green	11,350	E01234
Vintron Dual Frequency Monitor	2,875	E01235
Vintron First VGA monitor/m/a	3,200	E01236
Vintron Ultra VGA/m/a	3,400	E01237
Vintron VIN-CN28/14"/NI/.28 DP	11,000	E01238
Vintron VIN-CI28/14"/I/.28 dp	10,500	E01239
Vintron Sony 15/15"/Color Monitor	29,000	E01240

Note: m-monochrome;a-anti-glare

PLOTTERS

HP DesignJet 230(A1/D)/m	104,500	E01116
HP DesignJet 230 (A0/E)/m	140,500	E01117
HP DesignJet 250C(A1/D)/c	130,000	E01118
HP DesignJet 250C(A0/E)/c	175,800	E01119
HP DesignJet 600 (A1/D)/m	193,500	E01120
HP DesignJet 600 (A0/E)/m	228,800	E01121

Note: All enhanced mode plotters w/4MB RAM and 600 dpi resolution. **m**-monochrome,**c**--color,**e**--enhanced mode

Prices Supplied By:

- **Apple:** Apple Computers International, Suite 101, The Oberoi, Dr. Zakir Hussain Marg, New Delhi 110003. Tel: 11-4363030. Fax: 11-436[illegible]
- **AT&T**: Crompton Greaves, 8-E Rani Jhansi Rd. JhandewalaExtension, New Delhi 110055. Tel: 11-3558237, 3558[illegible] Fax: 11-7533038
- **Genius & Primax:** Vertex, 105 Aradhana Colony Apartments Puram Sector XIII, New Delhi 110066. Tel: 6116768, 6116769 Fax: 6116769, 6468797
- **Hewlett Packard**, 24 Paharpur Business Centre, Nehru Place, New Delhi-19. Tel: 11-6472311, 6472328. Fax: 11-6461117
- **Multitech Computers**, C-71, Anand Niketan, New Delhi 110021. Tel: 11-6886948, 6872396
- **Nomus Comm Systems**, S-19, National Plaza, RC Dutt Rd. Baroda 390005. Tel: 265-327734, 327738. Fax: 265-333156
- **TeamEngineers**, 2-2-647/227/C, CE Colony, New Nallakunta Hyderabad 500013. Tel: 40-7614412. Fax: 40-7601728
- **TVS Electronics**, 10-B Phase I, Peenya Industrial Area, Bangalore 560058. Tel: 80-8395000. Fax: 80-8396334
- **US Robotics:** Microsense Computers, #1 East Of Kailash, New Delhi 110065. Tel: 6410134, 6470619
- **Wipro & Epson**: Wipro Infotech, 88 MG Road, Bangalore 560080. Tel: 80-211141. Fax: 80-2270378
- **ZyXel**: XON Communications, 19 Casa Major Road, Madras 600[illegible] Tel: 44-8260124, 82582336. Fax: 44-8283226
- **Logitech:** Vintron, F-34 Okhla Industrial Area, Phase 1, New Delhi 110020. Tel: 011-6814520, 6813680, 6811980. Fax: 011-6810[illegible]

◆ **Attention:** While all prices were current at the time of going to press, readers are advised to reconfirm them with the vendors before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

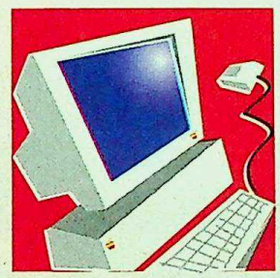
KEYBOARDS

Product	Price	RQS No
Vintron 6251 CH/Cherry switches	1,000	E01227
Vintron 5263/membrane model	650	E01228
Vintron 2020C/Cherry switches	1,150	E01229
Ritika 1010C/Cherry switches	1,150	E01233
Ritika 2020C/Cherry switches	1,125	E01234

OTHERS

Product	Price	RQS No
Logitech Soundman 16	4,200	E01271
Logitech Soundman Wave	13,900	E01272
Logitech Fotoman Pixture	83,995	E01301
Logitech Scanman Pagerscan	27,995	E01302
Logitech Wingman Light	995	E01303
Logitech Wingman	1,995	E01304
Logitech Wingman Extreme	2,495	E01305
Logitech Thunder Pad	995	E01306

HARDWARE



DESKTOPS

Product	Price	RQS No
APPLE		
Mac PowerBook 520/8MB/240MB HDD/Claris Organizer	139,400	E011277
Mac PowerBook 520c/8MB/240MB HDD/Claris Organizer	181,200	E011278
Mac PowerBook 540c/8MB/320MB HDD/Claris Organizer	285,000	E011279
Mac PowerBook 150/4MB/250MB HDD/Claris Organizer	83,600	E011280
PowerBook Duo 280c/12/320	230,000	E011283
Mac LC 475/4 MB/250 MB HDD/mono VGA	48,600	E011290
Mac LC 575/8 MB/250 MB HDD	96,200	E011291
MacLC 630/8 MB/350 MB HDD	96,200	E011292
Performa 580/8 MB/500 MB HDD	97,500	E011296
Performa 580/8 MB/500 MB HDD/CD-ROM	118,400	E011297
Performa 5200/8 MB/500 MB HDD/CD-ROM	151,300	E011298
Performa 6200/8 MB/500 MB HDD	110,000	E011299
Performa 6200/8 MB/500 MB HDD	130,600	E011300
Power Mac 6100/66/8 MB/500 MB HDD/multiscan monitor	115,000	E011306
Power Mac 6100/66/16 MB/500 MB HDD/CD-ROM/15" monitor	127,600	E011307
Power Mac 7100/80AV/16 MB/700 MB HDD/CD-ROM	143,200	E011308
Power Mac 7100/80/16 MB/700 MB HDD/CD-ROM	213,900	E011309
Power Mac 8100/100/16 MB/700 MB HDD/CD-ROM	292,700	E011310
Power Mac 8100/100/16 MB/1000 MB HDD/CD-ROM	348,800	E011311
Power Mac 8100/110/24 MB/2000 MB HDD/CD-ROM	295,000	E011312
Power Mac 9500/132/32 MB/2000 MB HDD/CD-ROM	492,100	E011313
Power Mac 9500/132/32 MB/2000 MB HDD/CD-ROM	517,000	E011314
Power Mac 7200/90/16 MB/500 MB HDD/CD-ROM	166,700	E011315
Power Mac 7200/90/16 MB/1000 MB HDD/CD-ROM	186,000	E011316
Power Mac 7500/100/16 MB/500 MB HDD/CD-ROM	162,400	E011317
Power Mac 8200/120/16 MB/2000 MB HDD	240,000	E011318
Workgroup Server 8150/16 MB/1000 MB/CD-ROM	299,100	E011322
COMPAQ		
Presario 944/486DX4-90/8 MB/535 MB HDD	140,700	E011413
Presario 962/Pentium-60/8 MB/535 MB HDD	174,400	E011414
Presario 972/Pentium-75/8 MB/725 MB HDD	159,400	E011415
Presario 510/486SX-33/4 MB/270 MB HDD	95,000	E011416
Presario 520/486SX2-66/4 MB/420 MB HDD	108,800	E011417
Presario 524/486SX2-66/4 MB/420 MB HDD	122,000	E011418
Presario 742/486DX4-90/8 MB/420 MB HDD	153,300	E011419

Note: Compaq config: 1.44 MB FDD, CD-ROM drive, SoundBlaster card, 2 speakers, 101 keyboard, SVGA color monitor, mouse, MS-DOS 6.2, Win 3.1, TABWORKS, MS Works, MSEncarta, and internal fax-modem

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
HCL FRONTLINE (Beanstalk)		
HPC 4100/486SX2/50/m	48,707	E01750
HPC 4150/486SX2/50/c/BBS for 6 months/Red Armour	68,847	E01751
HPC 4300/486DX2/66/c/Fastracc/MS Works/Red armour/NIIT Training	78,917	E01752
HPC 4400/486DX2/66/c/Fastracc/ MSWorks/pack of 10CDs/Bitfax & Bitcom for Win/RedArmour/NIIT Training/BBS subscription for 6 months	97,997	E01753
HPC 4600/486DX2/66/c/Fastracc/Ms Works/pack of 20CDs/NIIT Training/BBS for 6 months/Bitcomfor win/Bitfax for win	108,597	E01754

Note: **c**-SVGA color;**m**-Mono VGA. System config.: 270 MB HDD except 4600, 4 MB RAM (4100, 4150, 4300), 8MB RAM (4400 & 4600) 1.44 MB FDD, 101 keyboard, MS-Mouse , DOS 6.22, WFW 3.11, Fastracc, MS Works, Red Armour..

SCT HOME		
SCT 10H/486DX2/4 MB RAM/735 HDD/VGA mono	46,900	E01755
SCT 20H/Pentium/60/8MB RAM/735 MB HDD/SVGA mono	59,900	E01756
SCT 30H/Pentium/75/8 MB RAM/735MB HDD/SVGA mono/Set of CD titles	79,900	E01757
SCT 40H/Pentium/100/8 MB/1.08GB HDD/SVGA mono/ set of CD titles	98,900	E01758

Note: Includes 1.44 MB HDD, MS Mouse, 101 keyboard, DOS 6.22, Win 3.11

SCT MULTIMEDIA		
SCT 100M/486 DX2/8 MB RAM/1.08 GB HDD/ 14" SVGA color/DOS 6.22/Win 3.11/ Fax/modem card/12 CD titles	84,500	E01759
SCT 200M/Pentium/75/8 MB RAM/1.08 GB HDD/14" SVGA color/Dos 6.22/Win 3.11/ fax/modem card/24 CD titles	99,500	E01760
SCT 400M/Pentium/100/16MB RAM/2 GB HDD/15" VGA/24 CD titles	138,500	E01761

Note: Includes 1.44 MB FDD, 101 keyboard, MS mouse,

CHAMPION		
Pentium/120/8MB RAM	7,500	E01762
Pentium/100/8MB	53,400	E01763
Pentium/90/8 MB	50,800	E01764
Pentium/60/8 MB	35,500	E01765
486 DX4/100/4 MB RAM	25,800	E01766
486 DX2/66/4 MB	22,500	E01767

Note: Includes 1.44 MB HDD, 101 keyboard, 400 dpi mouse, SVGA mono monitor

IBM		
IBM PC 100/486DX4/100MHz/4 MB RAM/540 MB HDD	88,000	E01768
IBM PC 300/Pentium/100 MHZ/16MB RAM/850 MB HDD	165,000	E01769

Note: PC100 DOS/Win preloaded; PC300 DOS/Win, OS/2 Warp, Productivity/ asset Mgmt Tools

Hewlett Packard		
VE 5/75/Pentium-75/8 MB/540 MB HDD)	100,085	E011920
VL3 5/75/Pentium-75/8 MB/840 MB HDD)	113,519	E011
XM3 5/90/Pentium-90/8 MB/840 MB HDD)	136,113	E011
VE 4/66/486DX2-66/8 MB/840 MB HDD)	90,925	E011

Note: All HP machines ship with MS-DOS 6.22, Win For Workgroups 3.1 mouse.

MODI OLIVETTI		
PCS30SX/386SX-40/1 MB/14" SVGA mono	19,995	E011
PCS40/486SX2-50/4 MB/270 MB HDD/Mouse	48,600	E011
PCS50/Pentium-75/8 MB/420 MB HDD/Mouse	90,000	E011
TULIP		
Tulip Vision Line/486DX2/66/8MB/540MB	87,000	E01
Tulip Vision Line/486DX4/100/8MB/540MB	90,000	E01
Tulip workstation/486DX@/66/8MB RAM/No hard disk	78,000	E01
Tulip Vision Line/WS/Pentium/75/8MB/ 540MB HDD/Mouse TulipPS/2	110,000	E01

NOTEBOOKS

MAGICBOOK		
MB 5 Plus/486DX2/66/4MB RAM/1.44 MB FDD/540 MB HDD/84 keys	1,20,000	E01
MB 7/Pentium/90/540 MB HDD/1.44 MB FDD/84 keys	2,10,000	E01
MB 8/486 DX/4 MB RAM/1.44 MB FDD/84 keys	1,85,000	E01
MB 8 Plus/Pentium/90/8 MB RAM/540 MB HDD/1.44 MB FDD/84 keys	2,80,000	E01
HEWLETT PACKARD		
Omnibook 600/486DX2-50/4 MB/170 MB HDD	138,190	E011
Omnibook 600/486DX2-50/8 MB/260 MB HDD	185,755	E011
Omnibook 4000/486DX4-100/8 MB/340 MB HDD	176,350	E011
Omnibook 4000/486DX4-100/8 MB/810 MB HDD	259,400	E011
Omnibook 5000/Pentium-90/8 MB/1200 MB HDD	434,720	E011
Omnibook 5000/Pentium-90/32 MB/1200 MB HDD	530,980	E011

Note: All HP notebooks ship with MS-DOS 6.22 and Win for Workgroup

Prices provided by:

- **Apple Computers International**, Suite 101, The Oberoi, Dr. Hussain Marg, New Delhi 110003. Tel: 11-4363030. Fax: 11-436
- **Compaq**: Tangerine, 307 Ansal Chambers, Bhikaji Cama Place Delhi. 110065.
- **Hewlett Packard**, 24 Paharpur Business Centre, Nehru Place Delhi. 1100019. Tel: 11-6472311, 6472328. Fax: 11-6461117
- **Magicbook:** Akash Electronics & Software, 14 Chirag Enclave Delhi 110048. Tel: 011-6416003, 6416005, 6416007, 6224601 011-6467690.
- **Modi Olivetti**, Punj Lloyd House, 17-18 Nehru Place, New D 110019. Tel: 11-6427811.
- **TISL**, TISL Tower, Golden Enclave, Airport Road, Bangalore 560 Tel: 80-5262355, 5267117
- **Tulip** Computers, V-13, Green Park Extn, New Delhi 110016 Te 6964753

◆ **Attention:** While all prices were current at the time of going to p readers are advised to reconfirm them with the vendors before pla orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

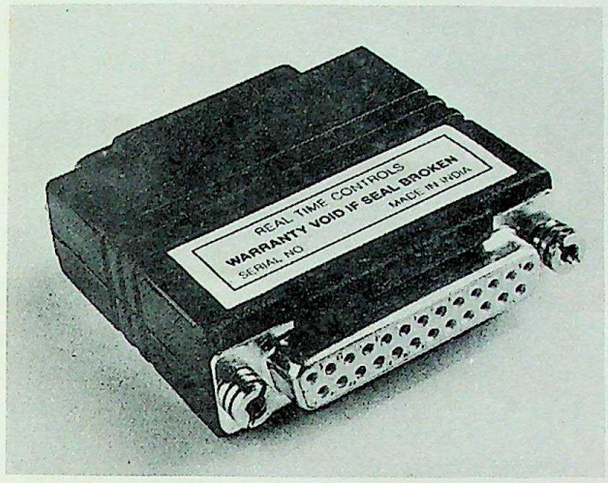
Digitized by Arya Samaj Foundation Chennai and eGangotri

PROTECT YOUR SOFTWARE PRODUCTS

Hardware and software locks for software protection

Supports

DOS
Windows
Novell Netware
Unix
Linux



Compilers

Microsoft Visual C++
Borland C++
Watcom C++
Clipper
Foxpro
Visual Basic
MS Office Products

Dos Extenders

Pharlap
Rational
Blinker
Causeway
and others

NEW
Hardware lock model ECP-7
Supports software renting
User programmable permanent memory
Facility to Monitor program execution count

Features*

Each lock is unique and a software protected with one lock will not work with another.
Automatic installation of normal DOS Executables without need for source code
Extensive interface library support for all operating platforms
Facility to upgrade software without recalling the device
Facility to monitor number of program executions
Single lock on a network supports multiple workstations
Specify the number of copies of software that can be run simultaneously on the network
User programmable permanent memory for customisation
Hardware lock is transparent for normal printer operations

*Depends on the protection device type and model

Real Time Controls Pvt. Ltd.

9A, 8th Main Road,
VijayaNagar, Velachery
Madras - 42
Ph: 044-2351929, 2352929, 2353647
Fax: 044-2352929
Email: real.time@axcess.net.in

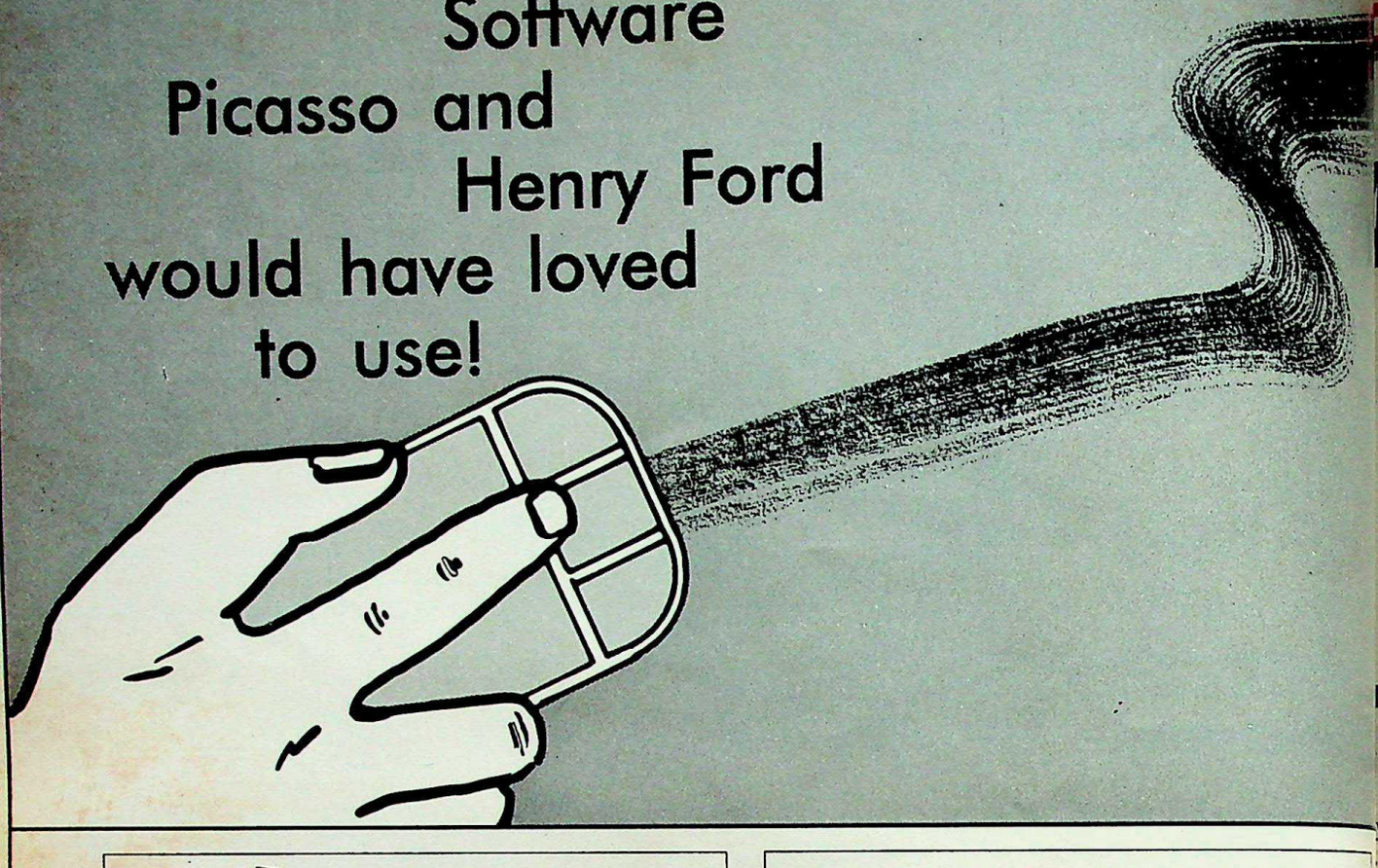
Products and brand names mentioned are trademarks or registered trademarks of their respective holders

CHHAYA

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Software Picasso and Henry Ford would have loved to use!

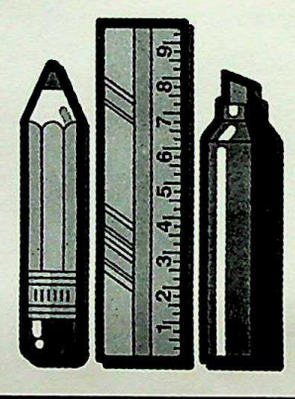


MICROGRAFX

WINDOWS *Draw*

"Fun, Fast & Friendly.

LICENCE FEE Rs. 5,000/-

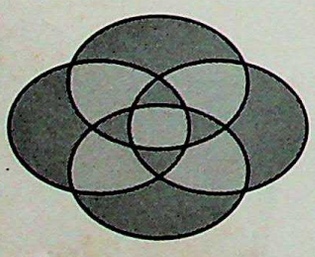


MICROGRAFX

GRAPHICS WORKS

"All in one-Drawing, Charts & Graphs, Photo editing, slide show."

LICENCE FEE Rs. 10,000/-



MICROGRAFX

SNAPGRAFX 2.0

"Creates great looking diagrams, Instantly."

LICENCE FEE Rs. 7,500/-

MICROGRAFX

CRAYOLA

"Creates Tons of fun for Preschoolers."

LICENCE FEE Rs. 5,000/-

Softek Limited : M-42, Commercial Complex, Greater Kailash-II, New Delhi-110048. Ph : (011) 641-5312, 6482681, Fax : (011) 648-2680

REGIONAL OFFICES:

- 3rd Floor, Raja Rajeswari Towers, 29-30, Dr. Radhakrishan Salai, Madras : 600004, Ph. (044) 825-8804, 824-0971
- Shyam Kamal 'A' 1st Floor, Opp. Railway Station Vile Parle (East) Bombay : 400057, Ph : (022) 6101147, 6101170 Fax : (022) 6116756
- 1301, Brigade Towers, 135, Brigade Road, Bangalore : 560 025, Ph : (080) 2213853, Fax : (080) 221-7655
- 237, Jodhpur Park, Calcutta : 700068, Ph : 4734137

AUTHORISED TRAINING CENTRES

- VSB Enterprises, Gurgaon Ph : 0124-331630 • NIMT, New Delhi Ph : 011-6462158, 7427646
- Enigma, Bangalore Ph : 080-2281662 • Glider Technologies, Cochine Ph : 0484-372346

SOFTEK

WORLD CLASS SOFTWARE WITHIN YOUR REACH

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AIWA - World Comm PV-BF288

A high-speed modem with steady performance

THE SPECS

PRODUCT: AIWA-World Comm PV-BF288
TYPE: High-speed fax modem.

SUMMARY: A reasonable high-speed modem with a steady performance against most other brands.

PRICE: Rs 20,000

AVAILABLE FROM: C-Tel Infotech Ltd, 38, Kamer Building, 5th Floor, Cowasji Patel Street, Fort, Bombay 400001 Tel: 22-2022066, 2022386 Fax: 22-2021362

Reader Query Service #E0124

The entry of brand names such as Aiwa, signals the boom in modem sales in India. A household name in home entertainment, Aiwa's y into data communication prod- is quite interesting. Maybe we'll see names like Sony and Philips

s for overall appearance, the modem looks quite slick but isn't very functional. There are no indicators for speed or retraining which at speeds of 28.8 kbps are essential.

The front panel is quite bare. It also lacks switches, such as a much needed voice/data toggle. The power switch for the modem is located on its side. Surprisingly, this modem is one of the few that I have seen with a proper ground provided for the telephone line.

Performance-wise, the modem was quite good. I used it to connect to several BBSes in Delhi as well as VSNL, Ernet and even long distance. It performed extremely well as a dialout modem. During the tests, I managed to get transfer rates of up to 5,400 cps on compressible data and up to 2,900 cps on zipped files.

As a host modem also, it worked well. There were no problems receiving calls at even 28.8 kbps. Since most modems are still 14.4 kbps, no noticeable problems were seen when the modem stepped down to 14.4 kbps or even 2.4 kbps.

The biggest problem was the documentation, or rather, the lack of it. The shrink-wrapped package from the dealer had no manual. Since the modem did not have any help either, setting up was a bit difficult. However, the command set was quite simple and did not have any "%", "&" or "\" commands. I managed to get the modem working after a bit of tweaking.

The package that the modem came in mentions fax and terminal software, but even this was missing. The manufacturers should spruce up the packaging if they don't want to turn off buyers.

Kishore Bhargava
Technology Consultant,
73243.21304@compuserve.com

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PURE, CLEAN, ORIGINAL, ORACLE®

PRESENTING THE AUTHORISED ORACLE TRAINING CENTRES

Oracle training. The very latest version at that - Oracle7, is now in town.

So is your chance to get an internationally acceptable qualification that would increase your market value, worldwide.

Oracle7. With course material from Oracle. And faculty trained by Oracle.

Brought to you by SQL Star People (India) Limited, the Authorised Training Centre for Oracle.

Come and discover the pure, clean and original.

ORACLE7

At SQL, nowhere else.

After meeting the stringent international standards of Oracle, SQL Star People (India) Limited, have been appointed as the Authorised Training Centre under the Business Alliance Programme of Oracle.

ORACLE® Authorised Training Ce

SQL PEOPLE

SQL STAR PEOPLE (INDIA) LIMITE

CALCUTTA
A7, 9th Floor,
Chatterjee International Centre
33/A Chowringhee Road,
Calcutta-700 071.
Tel : +91-33-296582.

DELHI
2nd Floor, Andhra Association Building,
Next to Saibaba Temple, 24 & 25 Institutional Area,
Lodhi Road, New Delhi-110 003.
Tel : +91-11-4602904, 4601539
Fax : +91-11-4601597

HYDERABAD
4, Motilal Nehru Nagar, 1st Floor,
Above Mahalakshmi Motors,
Begumpet Main Road, Hyderabad-500
Tel : +91-40-849125, 846501
Fax : +91-40-816960

Adding value to software Professionals ... with International partnership

Oracle is a Registered Trademark of Oracle Corporation U S A

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

sitex-96 Home ge

isitex-96 has launched its home page on the WWW. This page ludes information on nts, seminars and forums. se interested in partici- ng can register online for se events. DoE, the co- nsor of this event, and its sidiaries, the Software hnology Parks of India PI) and ERNET, have ed Wisitex Foundation the authoring and ching of their Web page. er plans include putting exhibitors' profiles and o conferencing facilities on Web.

xell Enters India

axell has tied up with Vertex Infotech to market their complete e of information products he Indian market. The s would all be pre- atted and carry a lifelong anty. A host of other ducts, such as CD-R pact Disc Recordable), to record anything from o to multimedia, will be ched. CD-Rs are available 80 MB and 580 MB ats. Optical disks, ranging e from 3.5" to 5.25", will be launched. The data idges will also be available ng from 40 MB to 1.35 apacities.

S And VSAT vices From ro BT

joint venture between Wipro and British Telecommunications, o BT have launched their Added Network Services S) and VSAT services in Both these services are backed by a 24 hour Help Desk and Network Management Center. As a part of its VANS offering, Wipro BT will provide international standard e-mail, file transfer and protocol conversions. Wipro BT will also provide integration with MS Mail and cc: mail and will pursue multiple mail delivery methods such as fax and telex. The Wipro BT VSAT service is a 64 kbps point to a multi-point managed data network service that provides two way data, closed user group voice/fax and virtual private hub services in India.

IndiaConnect On WWW

IndiaConnect, an electronic news and information service providing the latest news and information on India, is being hosted from California on the Internet. It has many forums, such as news and magazines, business yellow pages, tours and travel, events and happenings and the shopping mall. This site has been created by Panalink Technologies and users can connect to it through http://www.indiaconnect.com

The Office Of The Future

Intel and Digital conducted a seminar on "The Office of the Future" which included a multimedia presentation on the future of desktop computers, the trends in enterprise computing and also the Intel product roadmap for 1996. The speakers were Peter van Deventer from Intel, Hong Kong, Suresh Babu, Digital India, David H Mains, Digital, Asia Pacific and R Ravichandran.

FactoryLink From USData

Digital Electronics will be distributing USData's FactoryLink software. FactoryLink is a real-time application development product which incorporates advanced client-server capabilities to facilitate data distribution and application control. It is used for critical applications that automate mission-critical operations in discrete and process manufacturing, utility and environmental markets. ■

Seminars And Exhibitions

JANUARY

Networks' 96
3-5 Jan 1996
Contact: National Centre for Software Technology, Gulmohar Cross, Road No 9, Juhu, Bombay 400049 **Tel:** 22-6201606 **Fax:** 11-6210139

ELCOMP'96
6-10 Jan 1996
Contact: West Bengal Electronics Industry Development Corporation and Electronic Component Industries Association, Webel Bhavan, Block EP&GP, Sector V, Bidhannagar, Calcutta 700091 **Tel:** 33-371710, 371725 **Fax:** 33-371739

Oracle 7 Backup And Recovery
8 Jan 1996, Madras
11 Jan 1996, Bangalore
Contact: Oracle Software India, International Trade Tower, Nehru Place, New Delhi 110019 Tel: 11-3720569

PTC'96, Hawaii
14-18 Jan 1996
Contact: Pacific Telecoms, Council 2454 Beretania Street, Suite 302, Honolulu, Hawaii 96826-1596, USA **Tel:** 1-808-941-3789 **Fax:** 1-808-944-4874

FEBRUARY

TradEX'96 , New Delhi
17-20 Feb 1996
Contact: FICCI, Federation House, Tansen Marg, New Delhi 110001. **Tel:** 11-3319251, 3319261 **Fax:** 11-3326034

Multimedia '96
27-29 Feb 1996
Contact: IETE, 2 Institutional Area, Lodi Road, New Delhi 110003 Tel: 11-4631820 Fax: 11-4631810

NASSCOM '96 , Bombay
7-10 Feb 1996
Contact: NASSCOM, #109, Ashoka Hotel, Chanakyapuri, New Delhi 110021. **Tel:** 6885474, 600121 Ex 2109 **Fax:** 11-6885475

Wisitex96, New Delhi .
8-10 Feb 1996
Contact: Wisitex Foundation, B-17, Greater Kailash Enclave, Part II, New Delhi 110048 **Tel:** 11-6214185, 6214201 **Fax:** 11-6468992

MARCH

EDUCOMP 96, Chandigarh
19-21 March 1996
Contact: Technical Teachers' Training Institute, Sector-26, Chandigarh 160019. **Tel:** 172-770466, 771351 **Fax:** 172-549366

APRIL

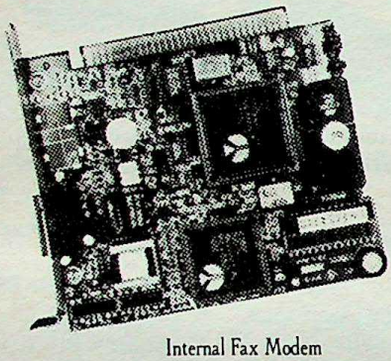
VR Expo'96, New Delhi
18-20 April 1996
Contact: CyberExpo, 506, Meghdoot, 94, Nehru Place, New Delhi 110019. **Tel:** 11-6416315, 6411692 **Fax:** 11-6476664

National Convention Of Computer Educators & Trainers, Patna
20-21 April 1996
Contact: National Association Of Computer Educators & Trainees, C/O Indian Instituteof Ecology & Environment, Paryavaran Complex, Maidan Garhi Road, New Delhi 110030 **Tel:** 11-6865084 ■

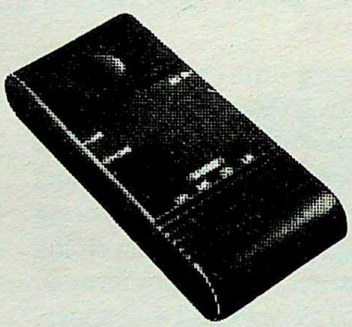
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Speed, voice mu
made *Online* one
fax modems in US



Internal Fax Modem



Pocket Fax Modem

PCMCIA Fax M

Soon,
Online will becom
India's most preferr

For distribution and trade enquiries, contact GM–Sales (Systems), Parekh Microelectronics (India) Ltd., Bombay.

Corporate Office and Factory: B-13, 13/1, 14 Electronics Estate, GIDC Sector-25, Gandhinagar 382 044. Tel: 02712-29011/2/3 Fa
E Mail : pmel.gnr@sml.sprintrpg.sprint.com **Sales Office:** 16-B, Samhita Industrial Estate, Off Andheri-Kurla Road, Bombay-400 072. Tel: 02
Fax: 022-515 2219 E Mail : pmel.bom@sml.sprintrpg.sprint.com **Delhi :** 308, Ansal Bhavan, 16, Kasturba Gandhi Road, New Delhi 110 001. Tel : 011-331831
Fax : 011-331 8273 E Mail : pmel.del@sml.sprintrpg.sprint.com **Bangalore :** 15, Gurappa Avenue, Primrose Road, Bangalore 560 025. Telefax :
E Mail : pmel.bng@sml.sprintrpg.sprint.com

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

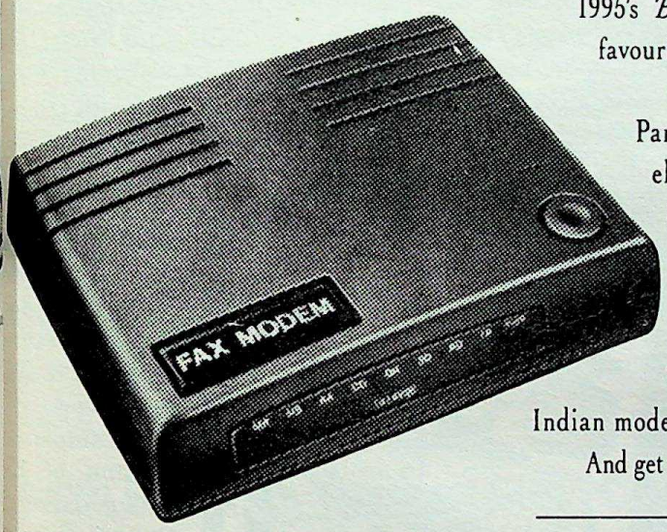
unction and price
he largest selling

With Online, you have a winner on your hands, anyway you look at it. With speeds ranging from 14.4 kbps and 28.8 kbps, it's the fastest fax modem ever to hit the Indian market. And one of the very few with a voice mail facility to record and receive messages. Online offers all the superior features of an international brand. Minus the high prices. No wonder it was voted 1995's *'Best Buy'* by Computer Shopper Magazine, USA. And declared the favourite of over one million modem users all over the world.

Online Fax Modems are now in India. Brought to you by Parekh Microelectronics (P-Mel), India's first fully integrated electronics company. Partnered by electronics giants like DuPont, Semiconductor Packaging Materials Inc., NSC and GTE, USA. P-Mel has tied up with Unicommunications Inc. USA, and is now setting up a world-class plant in Gandhinagar to manufacture Online Fax Modems and market them globally.

With so much to offer, Online is poised to become the favourite of Indian modem users.

And get all of India *Online*.



External Fax Modem

Online Fax Modems

- Can connect you to the Internet and E Mail
- Offer fax and voice mail facilities
- Are specially designed to work under Indian line conditions
- Are backed by a 3-year warranty from P-Mel
- Meet US CCITT and FCC Standards and are under test from DoT of India
- Are supported by a network of trained engineers and service centres
- Offer 10 hours of free E Mail/Internet time to users

ax modem.

Online
Fax Modems
Get Online. Anywhere. Anytime.

Manufactured and marketed by

P.MeL
Systems Division
Parekh Microelectronics (India) Ltd.

URJA-Pmel/799/95

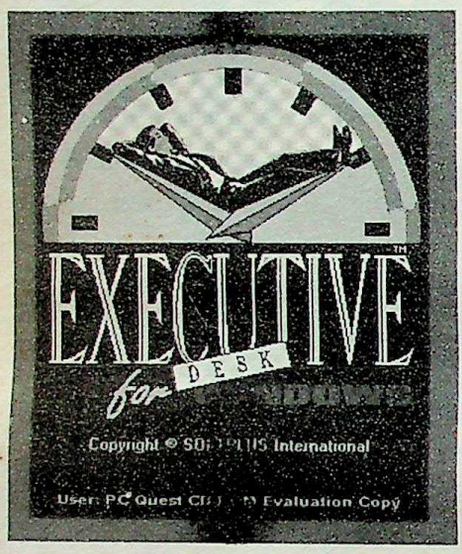
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SOFTWARE

Executive Desk For Win 95

Softplus has launched Executive Desk 5.0, which is Windows 95-compatible. Softplus has added a few new modules to Executive Desk, such as DayView



for work load management using drag and drop, Archival List for keeping a schedule of completed tasks, People-Project which assigns project tasks to multiple people and XBRIDGE which synchronizes two user areas of Executive Desk.

Executive Desk 5.0 is priced at Rs 2,495, the same as its earlier version. Softplus is offering an upgrade to its existing users for just Rs 900.

SOFTPLUS INTERNATIONAL, BOMBAY
TEL: 22-4363565
FAX: 22-4360457

Reader Query Service #E0103

Software For Doctors

CyberMed Solutions, a Bangalore-based company, has launched **Consultant+** for Windows, a package designed to improve doctors' productivity. It has a Patient module for tracking individual patient details, a Research module for building a reference database and a PIM module with tools such as a personal diary, a scheduler and a mail manager. Besides these, it also possesses complete clinical management features and in-built multimedia capabilities. The product is also OLE compliant.

The product needs a minimum configuration of a 386 with 8 MB RAM, 10..15 MB HDD space, DOS 5.0 and Windows 3.1. The first installation will cost Rs 1,500 and subsequent installations on the same site will cost Rs 10,000 each.

CYBERMED SOLUTIONS, BANGALORE
TEL: 80-5273856

Reader Query Service #E0104

AutoDesk Unveils Mechanical Desktop

AutoDesk has recently announced its AutoDesk Mechanical Desktop, an integrated software application that provides 2D and 3D mechanical CAD functions.

The product contains integrated modules for parametric solid and surface modeling, assembly modeling and associative drafting in addition to AutoCAD Release 13, Autosurf 3.0 and AutoDesk IGES translator. The product ships on a single CD and has a suggested retail price of $6,250.

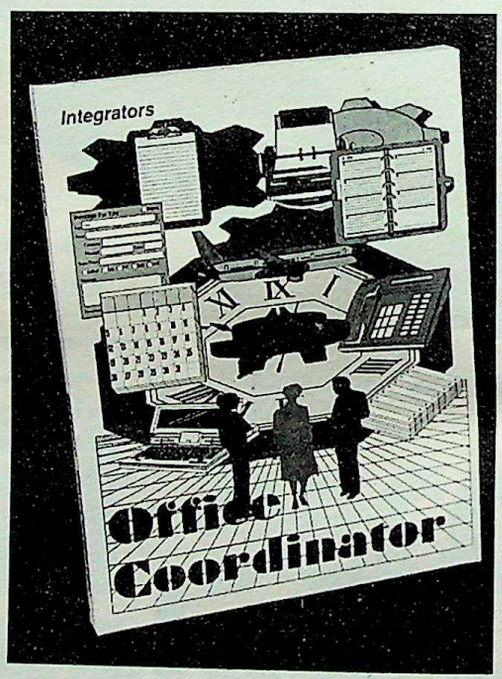
The shipment will begin shipping late in the fourth quarter of 1995 or early in the first quarter of 1996. It will be subsequently ported to various UNIX platforms at a later date.

AUTODESK, BANGALORE
Tel: 80-5564939, 5564829
Fax: 80-5564829

Reader Query Service #E0105

Office Coordinator V2.2

Office Coordinator, a corporate information manager caters to the mundane management and information tracking of small businesses or departments



within a big organization. Users can be defined as members or coordinators. A member is one who can only view other users' data but cannot modify whereas a coordinator can view as well as modify it.

The systems requirements include Windows 3.0 or higher, 4.5 MB on a server hard disk, EGA or a higher resolution monitor pointing device. It at Rs 19,995 for a license.

INTEGRATORS, NEW
TEL: 11-7434003, 743
FAX: 11-7132632

Reader Query Service

Exec Office Fr Sonata

Sonata Softw launched Exe a package d to improve executive tivity. This bundle e-mail (Microsoft contact info (Sym Act!), fax software (D Winfax Pro), word p (Microsoft Word), sheet (M Excel), pr tion s (Microsoft Point) and ment options (Pagekeeper

A sing version o Office co 37,000 wh networked costs Rs 4

SONATA SOFTWARE BANGALOR TEL: 80-661 6610662 FAX: 80-661

Reader Query Service

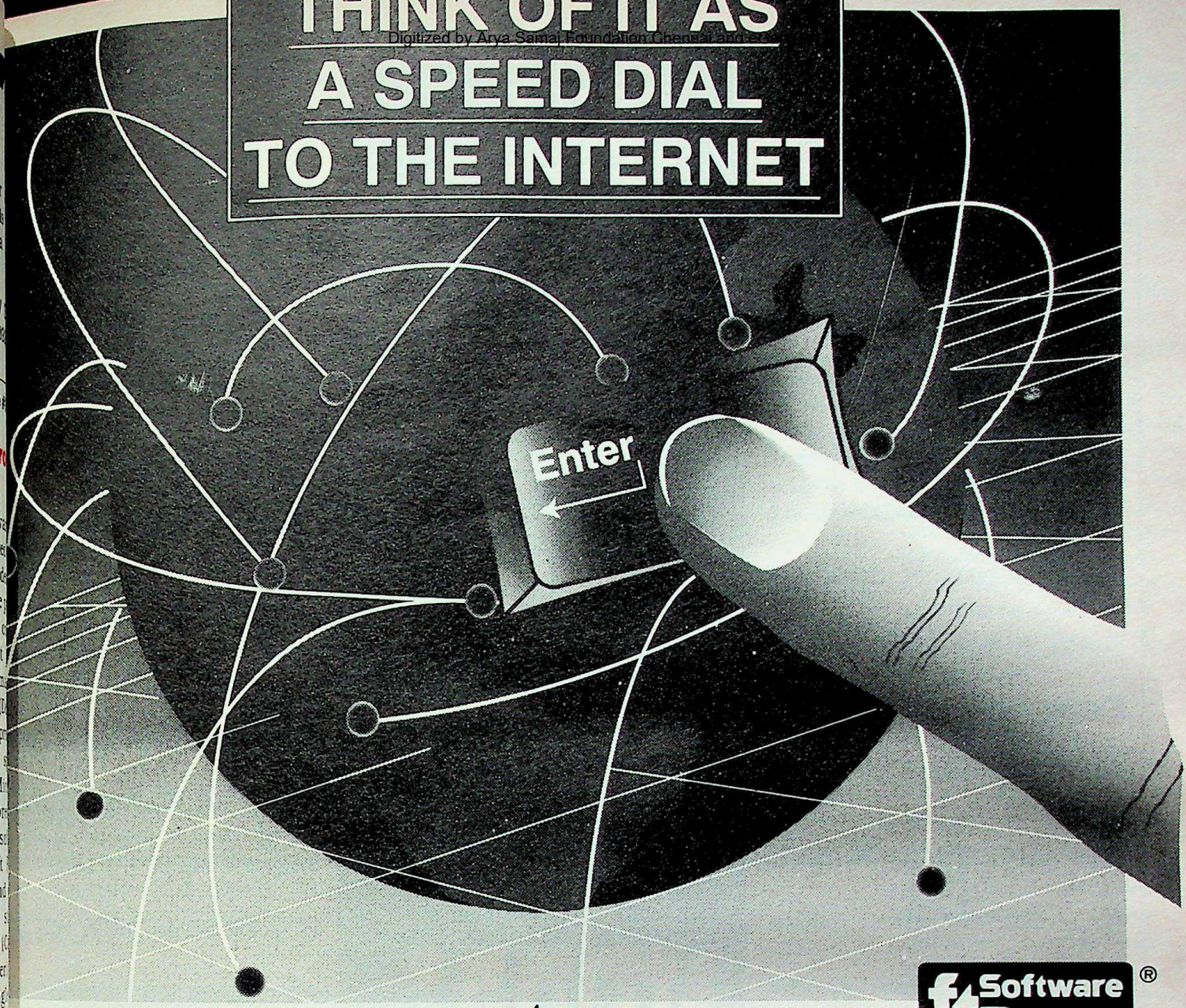
Shockwave Fo Macromedia Director

Macromedia h ounced Sho for Direct product designed interactive multim WWW pages. The Sh

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THINK OF IT AS A SPEED DIAL TO THE INTERNET



ftp Software®

INTRODUCING EXPLORE ONNET™. NAVIGATING ON THE NET HAS NEVER BEEN EASIER.

GO ANY WHERE

Pop open the package and five minutes later you can be cruising the Internet with the world's easiest-to-use personal Internet access tool. Explore OnNet™ gives you all the feature-rich Windows applications you need for home or office – FTP's Connection Wizard dialer; an enhanced NCSA Mosaic Internet browser; Gopher + information retriever; e-mail; and much more. Its reliable TCP/IP technology provides an easy way to access and exchange information around the globe. The world is waiting for you... on the net! Call now to get Explore OnNet™ at this special introductory price.

Now stocks available from our local outlets also

Brought to you by the Authorised Distributor

Priya GROUP

Dealer Enquiries Solicited

KEEPING YOU IN TOUCH ANYWHERE EVERYWHERE

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S.A. Brelvi Road, Bombay 400 001.

Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 285 4037

Offices: Bangalore: Tel.: 91-80-221 4027, 221 4395 Telex: 0845-8211 PRIA IN Fax: 91-80-227 4105 • **Calcutta:** Tel.: 91-33-242 2378, 242 2379, 242 8015 13-242 3086, 242 4884 • **Delhi:** Tel.: 91-1-331 4512, 331 0413 Telex: 031-65072 PRIA IN Fax: 91-11-371 9107 • **Madras:** Tel.: 91-44-434 9031, 434 9597 4-434 0093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

PIL/08/95

Logos and Trade Marks shown above are of their respective owners.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PC QUEST, THE FASTEST GROWING COMPUTER MAGAZINE, HAS BEEN OFFERING INFORMATION ON THE LATEST PRODUCTS AND TECHNOLOGIES FOR THE LAST SEVEN YEARS. A **FOUNTAIN OF INFORMATION** FOR THE IT PROFESSIONALS, **PC QUEST** HAS PLAYED A MAJOR ROLE IN THE POPULARISATION OF COMPUTERS IN THE COUNTRY.

WITH A VIEW TO REACH MORE PEOPLE, **PC QUEST** HAS GONE **INTERNATIONAL.** (BEGINNING WITH NEPAL).

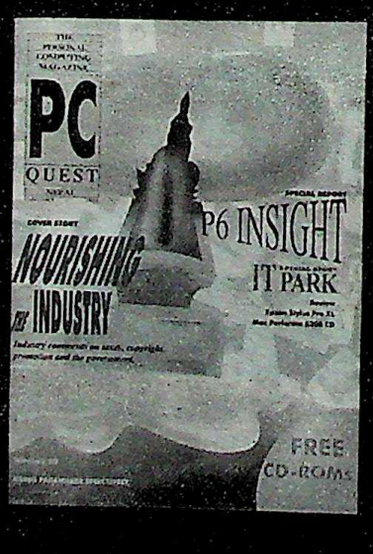
IN A RAPIDLY DEVELOPING AND GLOBALISING NEPALESE I T SCENARIO, WITH MAJOR MULTINATIONAL VENDORS SELLING THEIR PRODUCTS THERE, THE NEPALESE MARKET, IS DEFINITELY HOTTING UP. THE PROMISE

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

NEPAL

PC QUEST LAUNCHED IN NEPAL



OF MASSIVE INFORMATION EX

MAKES A CREDIBLE, COMPRE

AND UNBIASED MEDIUM A NE

TO CATALYSE THIS GROWTH P

OBVIOUSLY, **PC QUEST** IS TH

AND ONLY MAGAZINE WHICH

FULL JUSTICE TO THIS S

ENDEAVOUR.

THE NEW MAGAZINE AIMS AT

LOCAL USERS AND VE

INFORMED ABOUT THE LATES

PC QUEST NEPAL COVERS NO

WILL RESEARCHED TECHNOL

INSIGHTS AND PRODUCT REVIE

ALSO INCLUDES ISSUES RELATE

INDUSTRY, MARKETS AND PO

NEPAL.

NEPAL IS JUST THE FIRST

PC QUEST INTENDS GOING TO

PLACES TOO.

FOR FURTHER DETAILS CONTACT:
D-14, PANCHSHEEL ENCLAVE,
NEW DELHI-110 017
PH.: 6433999, 6435999, 6413938

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

plug-in can be downloaded from Macromedia's web site http://www.macromedia.com.

Shockwave brings Director productions with graphics, sound and animation to the Internet. The product is targeted at graphic artists, animators and other creative non-programmers. Internet users will be able to download compressed Director multimedia movies as quickly as a typical digitized image. Since Director is seamlessly integrated into the browser, the movies execute fast.

A post-processor called Afterburner is included in Shockwave which compresses Director files by 60 percent and optimizes the contents by media type.

WIPRO INFOTECH, BANGAORE
TEL: 80-5588422
FAX: 80-5586657

Reader Query Service #E0106

New Products From Svam

Svam is distributing **Statistica**, a software for statistical data analysis, graphics and database management. The system has some common statistical and graphical procedures and some specialized modules for social scienists, biomedical researchers and engi- neers. It offers 300 different graphs and countless graph combinations. The numeric and text output from procedures is handled via scrollsheets, spreadsheet-like tables and a word processor style, RTF-compliant output editor.

Quick Statistica for Windows is a "subset" product that incorporates all the graphics capabilities of Statistica as well as some data management features. It is available on both Mac and PC platforms.

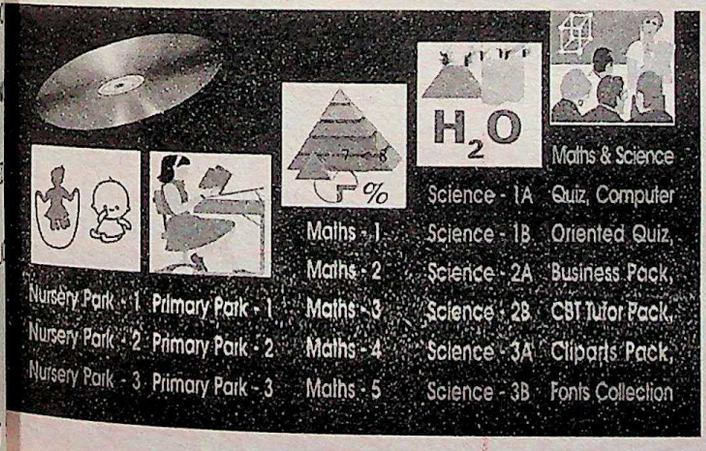
The **Statistica/QC**, is a set of add-on modules (which requires Statistica or Quick Statistica). It has a large number of customizable quality control charts and several experimental design methods.

SVAM SOFTWARE, NEW DELHI
TEL: 11-3320224, 3731844
FAX: 11-3723266

Reader Query Service #E0126

Multimedia Educational CDs Launched

Innovation Software Exports has launched its Windows-based multimedia educational CD software titles. The Seaware Nursery Park CDs include a set of 3 titles: Nursery Park I, II and III which are suitable for 3..5-year olds. The Primary Park CDs include four CD titles with applications suitable for 5..8-year olds.



The Innoware Maths series has five titles and covers courses for classes 6th.. 10th. The Innoware Science series has titles for Physics, Chemistry and Biology with sound, graphics and animation.

The general CD titles include personality evaluators and computer language quizzes.

INNOVATION SOFTWARE EXPORTS, MADRAS
TEL: 44-4349924, 43494433
FAX: 44-4349505

Reader Query Service #E0108

MATLAB Compiler And MATLAB C Math Library

Cranes Software has announced two new products, MATLAB Compiler and MATLAB C Math Library, which can work with MATLAB. The compiler helps to optimize C-code from MATLAB M-files. As a C source code generator, applications can be built independently of MATLAB. The C Math Library supports standalone applications using MATLAB and the MATLAB compiler. Now, with this compiler, it will be easier for users to port their solutions out of MATLAB and make them accesible to more people whether these people use MATLAB or not.

CRANES SOFTWARE, BANGALORE
TEL: 80-5549338
FAX: 80-2214606

Reader Query Service #E0128

Software For Motor Manufacturers

Manan Enterprises has developed software for electric motor manufacturers. The software is useful for keeping ISI records. It can accept details on name plates, stator winding resistance, no load tests, locked rotor tests, load test and heat run test.To use the software, you need to have a 286 with 2 MB RAM. It is priced at Rs 4,990.

MANAN ENTERPRISES, AHMEDABAD
TEL: 79-490338
FAX: 79-493406

Reader Query Service #E0127

Products From NIIT

NIIT has launched three new instructional software packages, on PowerBuilder, Lotus Notes, and Oracle Forms, which have been developed at NIIT's instructional software factory.

NIIT and Powersoft have also announced a new product, Powersoft Portfolio, a suite of client/server products for developing workgroup applications. This enables users to construct a database with StarDesigner, and build a powerful client/server application with PowerBuilder Desktop and deploy it on a LAN with a three user version of Watcom SQL server.The suite comes with PowerSoft InfobaseCD-ROM and an online tutorial. It is priced at 21,800.

NIIT, NEW DELHI
TEL: 11-6817341, 6817342
FAX: 11-6817344

Reader Query Service #E0129

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE

APC's Plug-n-Play UPS

APC has launched new plug-and-play UPS models, Back-UPS Pro 280, 420 and 650, bundled with PowerChute Pro software, which is Windows 95 compatible and offers plug-and-play. It's also compatible with Windows 3.x, Windows for Workgroups, Windows NT and OS/2. These new models are designed for multi-tasking systems as well as peer-to-peer workstations, engineering workstations and other advanced networked or stand-alone systems. These new models also feature **Cellguard**, a microprocessor-controlled, intelligent battery management system to maximize battery performance. Other features include automatic voltage regulation and network cable surge protection.

AMERICAN POWER CONVERSION, MADRAS
TEL: 44-4341784
FAX: 44-4341464

Reader Query Service #E0110

Nokia Launches Mobile Phone Models

Nokia Mobile Phones has announced two new GSM cellular phones in Madras. These models include Nokia 2016 and Nokia 2116, part of the Nokia 2010 and the Nokia 2110 series. 2016 is designed for the wider consumer market and 2116 offers data and fax capability and supports advanced GSM Phase II services such as multi-party conferencing, closed user group and fixed dialing. Both these models have a European design and support a wide range of accessories.

These models will be distributed by Celltel Communications Ltd, a joint venture between Metropolitan Communication Ltd and Solidaire International Marketing Services.

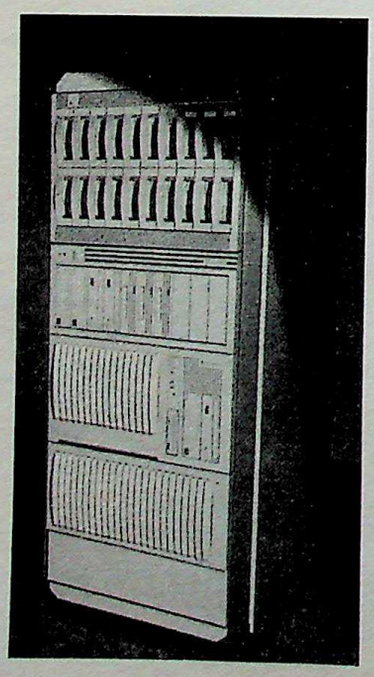
NOKIA MOBILE PHONES, NEW DELHI
TEL: 11-6224877, 6224879
Fax: 11-6224876

Reader Query Service #E0111

Intel-Based Aviion Servers From PCS

PCS Industries in collaboration with Data General Corporation, USA has introduced a new range of Intel-based Aviion servers. These five models will run more than 15,000 applications including all leading enterprise and database software. These new servers are based on Intel Pentium processors and run DG/UX enterprise operating systems and also Windows NT servers.

The range includes the AV 5800 enterprise server supporting up to eight 133 MHz Pentium processors and the AV 4700 and 4800 Tower Systems supporting up to four 133 MHz processors. The two entry-level servers, the AV 2000, a single and dual-processor system and the AV 3000, a tower system that can support four processors, use the 100 MHz Pentium processor and run all software available with Native NetWare, UnixWare and SCO Open Server.



PCS INDUSTRIES, BOMBAY
TEL: 22-2875525
FAX: 22-2873984

Reader Query Service #E0112

New Range Of Mac PowerBooks

Apple Computers has launched the PowerBook 5000 and 2000 families based on the 100 MHz and 117 MHz PowerPC 603e processor. Users can work on complex graphics, page layouts and presentations on these new models.

The Powerbook 5300 family is built around 100 and 117 MHz PowerPC 603e RISC processors. The 5300 series offers users de... level PowerPC proc... performance.

The PowerBook 2... brings the performa... 100 MHz PowerPC proc... used in the PowerBook ... to the sub notebook.

All the models ... equipped with utilities ... communication and c... tibility software pre-ins... on the hard drive. ... models provide bu... infrared technology for ... file sharing, multi... support with 16-bit ... quality stereo sound ... and output speakers. ... grated microphones ... expansion bays for rem... rewritable media suc... magneto-optical drives.

APPLE COMPUTERS, N... DELHI
TEL: 11-463030

Reader Query Service #E...

Mustek's Page Scanner

Mustek has launched a scanner, Page 630, for office and home use. It can be used as a fax machine or a copier and can also be used as a high speed OCR. It can scan multiple pages and takes only 9.6 sec to scan a page. Resolution can be set from 100 dpi to 600 dpi. The maximum size of the document that can be scanned is 216x356 mm. It also scans full page images in 256 grayscale or line... mode. It is compatible ... software such as Wi... Pro, OmniPage, PC Co... and Photo Shop wh... enable it to fax, copy ... mail and edit images. ... scanner is bundled ... OCR and image edi... software.

LEE & NEE SOFTWARE EXPORTS, CALCUTTA
TEL: 44-405153

Reader Query Service #E...

Compaq Launch... Pentium-Based Presarios

Compaq has laun... Pentium-based ... timedia home ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

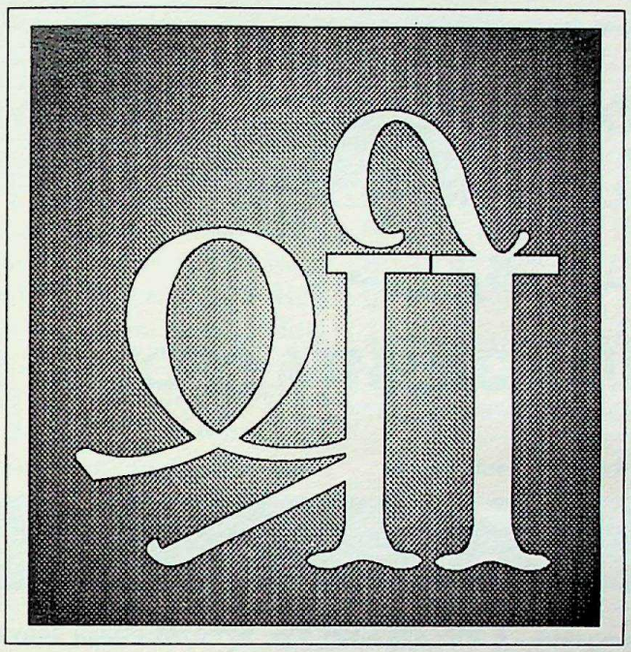
Digitized by Arya Samaj Foundation Chennai and eGangotri

OVER 1200 FONTS .. ALL INDIAN LANGUAGES...

DTP Solutions

OVER 5000 USER BASE ...
ON IBM 386/486 as well as Macintosh ...
WORKING UNDER WINDOWS-PAGEMAKER/CORELDRAW/VENTURA

Modular Systems has the largest library of fonts in Indian languages. You can have a unique choice of fonts. You can also have any two Indian languages of your choice in even the smallest package. Most popular windows applications like Pagemaker, Coreldraw, Ventura, MsWord are well supported. Even the smallest package comes with a built in multillingual text editor,



SHREE-LIPI

From

MODULAR SYSTEMS

format conversion utility and HP mirror printing utility. All these can be directly invoked from Windows. Shree-Lipi supports a large variety of popular keyboard layouts. Shree-Lipi fonts are also available on Macintosh platform. Using Shree-Lipi makes you a member of over 5000 satisfied Modular DTP software user base, who keep getting good after sales support.

26,Electronic Co-op.Estate,Pune-Satara Road
Pune 411 009. Tel.:(0212) 437994,423510
Fax:(0212)452323

AUTHORISED DEALERS:

AMRAVATI: ◆M.M.Enterprises Ph-662567/661508 Gupta Sales & Services Ph-78165 **BANGALORE:** File Server Ph-6637564 **BARODA:** Cosmos Computer Services Ph-541473 **BHUBANESWAR:** Oricom Systems Ph-400343 ◆Lalani International Ph-402013 **BOMBAY:** Prografik Ph-3856044 ◆Embient Computers Ph-2612659 ◆A1 Systems Ph-4375484 **CALCUTTA:** Compu Care Ph-2444452 **CUTTACK:** Computer Lab Ph-612893 **DHULE:** Micro-Tech Computers Ph-20340 **GUWAHATI:** Analac Services Ph-571739 ◆Datamation Ph-548610 **GWALIOR:** Revon Reprographic Systems Ph-328927 **HUBLI:** Computech Graphics Ph-53064 **HYDERABAD:** Anu Graphic Systems Ph-230576 **INDORE:** Veltronics Ph-430194 ◆The Software People Ph-493561 **JAIPUR & RAJASTHAN:** Nirmal Kumar Mani Kumar Ph-311420 **KARAD:** Sun Data Systems Ph-3012 **KOLHAPUR:** Real-Time Computers Ph-23662 **MADRAS:** Anu Graphic Systems Ph-4344594 ◆Picatype Ph-452783 **MALKAPUR:** Excel System and Services Ph-22625 **NASIK:** Arvind Computers Ph-72673 ◆Pratik Microsystems Ph-76550 **PHALTAN:** Alfa Computers Ph-3126 **PUNE:** G.J.Ghaisas & Co. Ph-321825 ◆DSS Ph-622501 ◆Picatype Ph-620154 ◆Priya Informatics (p) Ltd. Ph 449297 ◆Everex Inc. Ph 470409 **ROURKELA:** Unitech Engineers Ph-8267/893127 **SANGLI:** Computer Systems Ph-77019 ◆Digicomp Systems Ph-340286 ◆Karan Computers Ph-76348 ◆Shri Computers Ph-74597 **SOLAPUR:** Skylark Computer Centre Ph-20537 **ULHASNAGAR:** Super Computers Ph-550095

NATIONAL DISTRIBUTORS: CIRRUS ELECTRONIC SYSTEMS LTD.
Cirrus Chambers, Kamala Height, 433, Somwar Peth,
Pune- 411001 Tel. : 633226 / 632236 / 630237 Fax: 0212-631132

Branch Offices / Service Centres:
AHMEDABAD: 449694 BANGALORE: 3320083 BOMBAY: 4943544 / 4933950 COCHIN: 361023
HYDERABAD: 294985
KANPUR: 217598 / 297327 MADRAS: 8274938 NAGPUR: 531[illegible] SURAT: 32055

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

2Million users across the world sa

- BEST PROTECTION AGAINST VIRUSES
- MEILLEURE PROTECTION CONTRE LES VIRUS
- BESTER SCHUTZ VOR DEN VIREN
- LA MEJOR PROTECCIÓN CONTRA EL VIRUS
- LA MIGLIORE PROTEZIONE CONTROI I VIRUS
- لآحسَن الوقاية ضد العدوى
- **ЛУЧШАЯ ЗАЩИТА ПРОТИВ ВИРУСОВ**

~ *Now also available in India* ~

KNOXWARE : 506, HAL II Stage, Bangalore - 8. Ph.: 528 8490, Fax: 227 8752 E-Mail: info.knox@axcess.net.in
BRANCHES: Calcutta - Ph.: 276528, Hyderabad - Ph.: 635069
◆ **FRANCHISEE FOR WEST:** Crystal Enterprises, Bombay - Ph.: 4137571

DISTRIBUTORS: ◆ Essen Vision Software Consultants, Bombay, Ph.: 2656728, 262 2527
◆ Expunge Systems, New Delhi - Ph.: 6482673 ◆ Microtech, Bombay - Ph.: 4920356 (for IBM Systems)
◆ Online Technologies, Pune, Ph.: 631157 ◆ Thirdwave Systems (P) Ltd., Ahmedabad, Ph.: 467974

DEALERS: ◆ Ahmedabad - Ark Computer & Graphics, Ph.: 462996 ◆ Growth Centre, Ph.: 409200 ◆ Microlystic, Ph.: 748192 ◆ Bangalore - Frontier Business Systems, Ph.: 260729 ◆ Infomart, Ph.: 6637770 ◆ Nodes India, Ph.: 563861 ◆ Baroda - Deep Computers, Ph.: 341613 ◆ Micro World, Ph.: 328256 ◆ Zero - One Microsystems, Ph.: 328521 ◆ Calcutta - Pixel Infotec Ph.: 596120 ◆ Jaipur - Bell Infotech Systems, Ph.: 369292 ◆ Jamshedpur - Jupiter Systems Software, Ph. 427471 ◆ Madras - Bitslan Systems. Ph.: 8555521 ◆ Pune - Agtech Systems, Ph.: 475044 ◆ Soft Aid (P) Ltd. Ph.: 347 802, 368538

ACHIEVEMENTS

SC SECURE Computing — 1994 BYTE AWARD OF MERIT — PC PLUS RECOMMENDED

PC WORLD, December 1994 PC Professional, July 1994 Virus Bulletin, January 1994 PC Magazine, August 1993, Computer Sweden, August 1993, Secure Computing, January 1995, PC PLUS, February 1994, Byte, August 1994

F-PROT PROFESSIONAL

ANTI - VIRUS FOR PCS AND NETWORKS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

uters—the Presario 5500 nd 9500 in India. These two models have quad-speed CD-ROM drives, high-speed modems, 1.06 GB hard disk drives, and are Windows 95-eady. They come with 10 oftware titles. The Presario 9500 has two models based n the 90 and 100 MHz entium.

The Presario home omputer line integrates six levices into one: computer, ax machine, home stereo, D Player, telephone nswering machine and a lata modem. It also comes quipped with software for earning how to use a omputer, word processor, preadsheet, database, ncyclopedia and many ducation and entertainment oftwares.

The Presario 5500 and 9500 series have TrueQ udio and Motion technology which combine MPEG video upport, 3D Spatializer urround sound, wavetable ynthesis audio technology o improve the quality of nultimedia software.

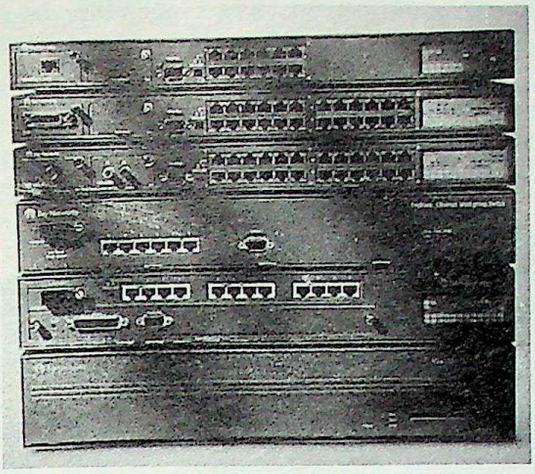
The 5500 and 9500 models feature the Presario Gallery, a software interface. The prices of the seven Presario models range from Rs 99,000 to Rs 200,000.

COMPAQ COMPUTERS ASIA, BANGALORE
TEL: 80-5596023, 5596272
FAX: 80-5596025

Reader Query Service #E0114

BayStack From Bay Networks

Bay Networks has introduced BayStack, a stackable solution which features integrated routers, switches, hubs and network management capabilities. This BayStack family combines new Ethernet hub and network management



products with compatible hubs, upgraded Access Node (AN) and Access Node Hub (ANH) routers. The product family consists of BayStack 10Base-T Ethernet stackable hub and Optivity workgroup network management software. The Ethernet Workgroup Switch, 100 Base-T hub and access node and access node hub remote access routers are also included.

BAY NETWORKS INTERNATIONAL, NEW DELHI
TEL: 11-3010404 ext 356
FAX: 11-3010803

Reader Query Service #E0116

Intel Announces New OverDrive Processor

Intel recently announced its new 83 MHz Pentium Overdrive processor upgrade for the 486 DX2/66 MHz and the 486 DX/33 MHz systems.

The new chip is based on a 3.3 volt 0.6 micron technology. It features the same core technology as the Pentium processor including superscalar architecture, branch prediction and a faster math co-processor. It has an ICOMP rating of 581 as opposed to a 486 DX2/66's rating of 297, an increase of 96 percent. The overall performance boost is up to 50 percent.

The product is priced at $299. The chip is compatible with most 486-based sockets with a 237-pin or a 238-pin outlay. More details are available from the Intel (Bangalore) office or on the Intel WWW page http://www.intel.com/procs/ovrdrive.

INTEL ASIA ELECTRONICS, BANGALORE
TEL: 80-2275065, 2275066

Reader Query Service #E0120

Campus Backbone ATM/Ethernet Solution

3Com has launched a standard LAN emulation software for its fully scalable, complete ATM/Ethernet solution featuring integrated Ethernet and ATM switching. With this launch, 3Com has introduced its complete range of products in India. The ATM campus backbone switch, the CELLplex 7000, LinkSwitch 2700 Ethernet/ATM workgroup switch offer integration of ATM with Ethernet switching.

3COM ASIA, NEW DELHI
TEL: 11-6835070
FAX: 11-6834662

Reader Query Service #E0122

Passbook Printer From TVSE

TVSE has launched HD 5650, a flatbed serial dot matrix printer which is targeted at the banking, insurance and finance sector. It is designed to facilitate printing on pre-printed stationery, such as passbooks, fixed deposit receipts in banks, invoices, bar codes and shipping labels used in warehouses or in the courier industry, ticketing etc. The TVSE HD 5650 is a 24-wire, 106-column dot matrix printer which has the capability to print on varying paper thicknesses of .05 mm to 2.0 mm. This is a printer well suited for bank automation. It has an LCD front panel and also has a built-in dual interface which can be shared by two computers.

TVS ELECTRONICS, BANGALORE
TEL: 80-8395000
FAX: 80-8396334

Reader Query Service #E0117

Laser Printer And Scanners From Wipro

Wipro Peripherals has launched a new laser printer and two scanners from Epson. The EPL 5500 is a 600 dpi 6 ppm laser printer with the flexibility of add-on memory, PostScript support and Mac/Ethernet connectivity.

The scanners, GT-9000 and GT-300, offer color and monochrome scanning respectively. The GT-9000 is a 30-bit color scanner with a resolution of 600 dpi, which goes up to 2,400 dpi with software support. This scanner optionally ships with Adobe Photoshop. OCR software is also available.

The GT-300 is a small footprint scanner that ships with the Xerox Desktop Document Management Suite which can store, retrieve, fax and e-mail documents and images.

WIPRO PERIPHERALS, BANGALORE
TEL: 80-2270359, 2270376
FAX: 80-2270378

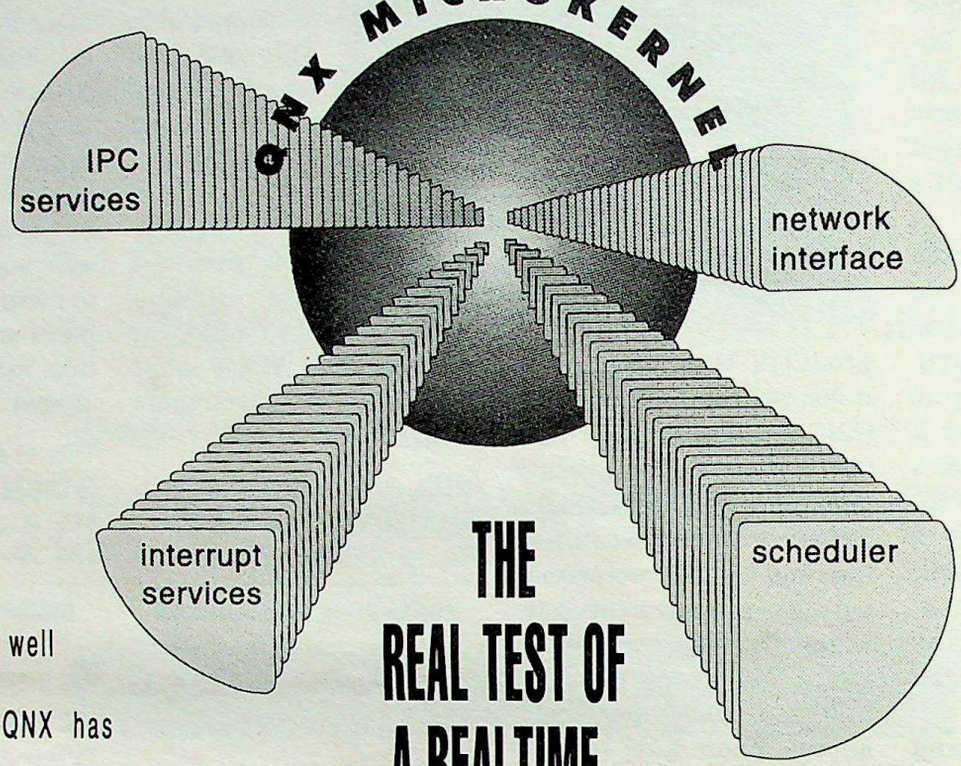
Reader Query Service #E0119

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Information Technology

BPL



THE REAL TEST OF A REALTIME OS IS IN THE REAL WORLD. QNX HAS BEEN THERE.

Time tested for well over a decade. QNX has proven itself again and again in thousands of realtime applications. If you're building an embedded system, QNX fits. Or if you need a network-distributed OS to handle hundreds of CPUs, QNX fits there too. QNX lets you set up your embedded system as a node on your network. Which means you could run remote diagnostics on your embedded system right from y... own desktop. W... QNX, your developm... and your target environments ... one and the same. Thanks to QN... modular architecture, you can config... the OS any way you want it — with a... system or without, networked or stand-alo... All this, plus the freedom to plug and pl... And you can do it all on the ...

BPL *Bringing You the Bes...*

BPL TELECOM LIMITED

IT GROUP 1/1 PALACE ROAD BANGALORE: 560 001 PH; 2262013/2261845 FAX Nos: 080 - 2217608/2257735/55878...

*QNX is the registered trademark of QNX Software Systems Limited. All other trademarks belong to their respective owners.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

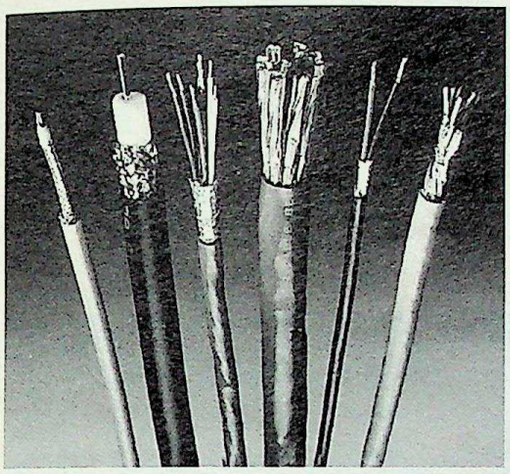
Digitized by Arya Samaj Foundation Chennai and eGangotri

Cable Range From RS Components

RS Components has launched a range of networking and coaxial products. This new range covers communications, networking and audio applications and is designed for IEEE 802.3 drops, thin Ethernet links and LocalTalk. A 75 ohm coaxial line, twisted pair wire and a variety of shielded cables suitable for audio, instrumentation and RS232 have been introduced.

RS COMPONENTS, UNITED KINGDOM
TEL: 44(0)1536201234
FAX: 44(0)1536401096

Reader Query Service #E0118



ADDRESSES

Com Asia
426, Surya Best Western Hotel,
ew Friends Colony,
ew Delhi 110065
l: 11-6835070
x: 11-6834662

pple Computers
1, The Oberoi,
Zakir Hussain Marg,
ew Delhi 110003
l: 11-4363030
x: 11-4362939

C
t 15, The Manor,
enotaph, II Lane
adras 600018
l: 44-43451784
x: 44-43451464

toDesk
6, Raheja Plaza
Commissariat Road
oolay Tank Bed Area,
ngalore 560025
l: 80-5564939, 5564829
x: 80-5564897

y Networks International
lia Representative Office

Taj Palace Hotel
Room 356
Sardar Patel Marg,
Diplomatic Enclave
New Delhi 110021
Tel: 11-3010404 ext 356
Fax: 11-3010803

Compaq Computers Asia
6th Floor, Du-Parc Trinity
17 MG Road
Bangalore 560001
Tel: 80-5596023
Fax: 80-5596025

Cranes Software
No. 5, Airport Road,
Domlur Layout (Service Road),
Bangalore 560071
Tel: 80-5549338
Fax: 80-2214606

CyberMed Solutions
BG1/1, Builder Apartments,
151/1, Airport Road,
Bangalore 560017
Tel: 80-5273856

Integrators
BM-58,
West Shalimar Bagh,
New Delhi-110052
Tel: 11-7434003, 7433926
Fax: 11-7132632

Innovation Software Exports
II Floor, Rathna Building,
581, Mount Road,
Madras 600006
Tel: 44-4349924, 4349443
Fax: 44-4349505

Intel Asia Electronics
2/4, Samrah Plaza
Bangalore 560001

Lee & Nee Software Exports
14B Camac Street,
Calcutta 700017
Tel: 44-405153

Manan Enterprises
D/704 Samrajya,
Memnagar,
Ahmedabad 380052
Tel: 79-490338
Fax: 79-493406

NIIT,
C-125,Okhla Ph I,
New Delhi 110020
Tel: 11-6817341, 6817342
Fax: 11-6817344

Nokia Mobile Phones
India Liaison Office
14th Floor, Block 'E'
International Trade Tower
Nehru Place,
New Delhi 110019
Tel: 11-6224877, 6224879
Fax: 11-6224876

PCS Industries
310/316, Raheja Chambers,
Nariman Point,
Bombay 400021
Tel: 22-2875525
Fax: 22-2873984

RS Components International,
PO Box 99, Corby, Northants
NN17 9RS,
United Kingdom
Tel: +44(0)1536201234
Fax: +44(0)1536401096

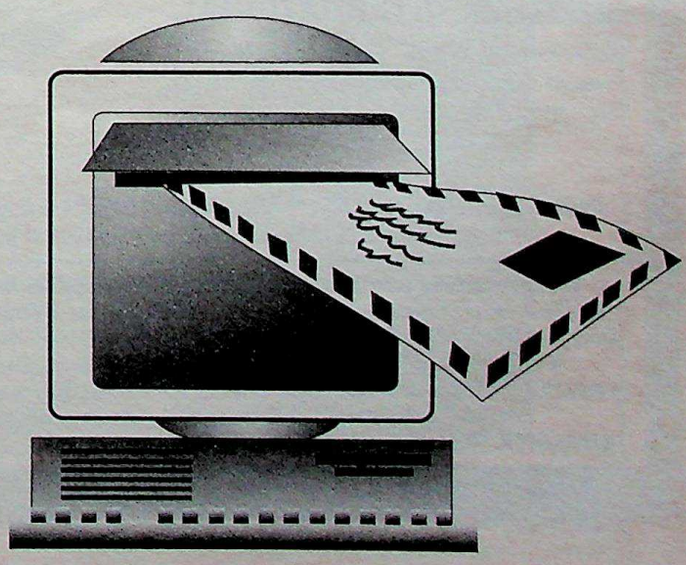
Softplus International,
G-9/10, C-Wing,
Balgovind, Opp Badal Cinema,
Mahim,
Bombay 400016
Tel: 22-4363565
Fax: 22-4360457

Sonata Software
1/4, Ist Floor,
APS Trust Building
Bull Temple Road,
Basavanagudi,
Bangalore 560019
Tel: 80-6610330, 6610662
Fax: 80-6610972

Svam Software
70, Janpath,
New Delhi 110001
Tel: 11-3320224, 3731844
Fax: 11-37323266

TVS Electronics
10-B, 1 Phase,
Post Box No 5805,
Peenya
Bangalore 560058
Tel: 80-8395000
Fax: 80-8396334

Wipro Peripherals
Wipro Infotech Group
40/1A Lavelle Road
Bangalore 560001
Tel: 80-2270359, 2270376
Fax: 80-2270378



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

All Work and no Play makes

Microsoft Windows95

a dull toy !

CNet
TOTAL NETWORK SOLUTI

The CN288 PnP PowerNIC from CNet. India's first opportunity to plug and play

Ranked seventh in the world and No. 1 in Taiwan. CNet's state-of-the-art technology comes to India with a **5 year warranty**, and at the most competitive prices too !

CNet products are available from Cirrus through **8 Sales and Service offices** and a dealer web of over **200 dealers in 58 stations** across the country.

Go ahead, make your day, now that you can work and play !

Talk to us today !

All trademarks owned by respective owners.

yes
It runs with NetWare

Network Interface Cards ■ PowerNIC ■ Plug 'n' Play PowerNIC ■ Workgroup Hubs ■ PowerSWITCH Switching Hubs ■ Repeaters

ΣEA
XOM SEACOM INTERNATIONAL

No.1, Tukaram Warehouse, Kondhwa Budruk,
Pune 411 048. Phones : 212-671078,
Fax : 212-671933.

MARKETED BY :

CIRRUS
Electronic Systems Limited

H.O. : Kamla Heights, Cirrus Chambers, 433/D,
Somwar Peth, Pune 411 001.
Phones : 633226, 632236, 630237,
Fax : 212-631132

CIRRUS BRANCH OFFICES : ■ Ahmedabad ✆449694 ■ Bangalore ✆2274023 / 2275217 ■ Bombay ✆4943544/4923339 ■ Cochin ✆361023 ■ Hyderabad ✆294985 ■ Madras ✆8274938 / 8351150 ■ Nagpur ✆531414

XEBEC 369/95

CNet Products available in : ●**ANDHRA PRADESH** ■Anantpur ■Chirala ■Guntur ■Hyderabad ■Kakinada ■Karnool ■Nellore ■Secunderabad ■Tirupati ■Vishakapatnam ■Vijayawada ■Warangal ●**DELHI** ● **GUJARAT** ■Anand ■Ahmedabad ■Baroda ■Bharuch ■Bhavnagar ■Nadiad ■Rajkot ■Surat ■Valsad ● **KARNATAKA** ■Bagalkot ■Bangalore ■Belgaum ■Bidar ■Davangere ■Gulbarga ■Hassan ■Hubli ■Mangalore ■Mysore ●**KERALA** ■Cochin ■Kozhikode ■Palakkad ■Trichur ●**MAHARASHTRA** ■Ahmednagar ■Akola ■Amravati ■Aurangabad ■Bombay ■Chandrapur ■Ichalkaranji ■Jalgaon ■Kolhapur ■Nagpur ■Nanded ■Nasik ■Osmanabad ■Pune ■Ratnagiri ■Sangli ■Satara ■Sholapur ■Yawatmal ●**MADHYA PRADESH** ■Bhopal ■Indore ■ Jabalpur ■ Raipur ●**TAMILNADU** ■ Coimbatore ■Erode ■Madras ■Salem ■Trichy

Dealer enquires for other cities solicited

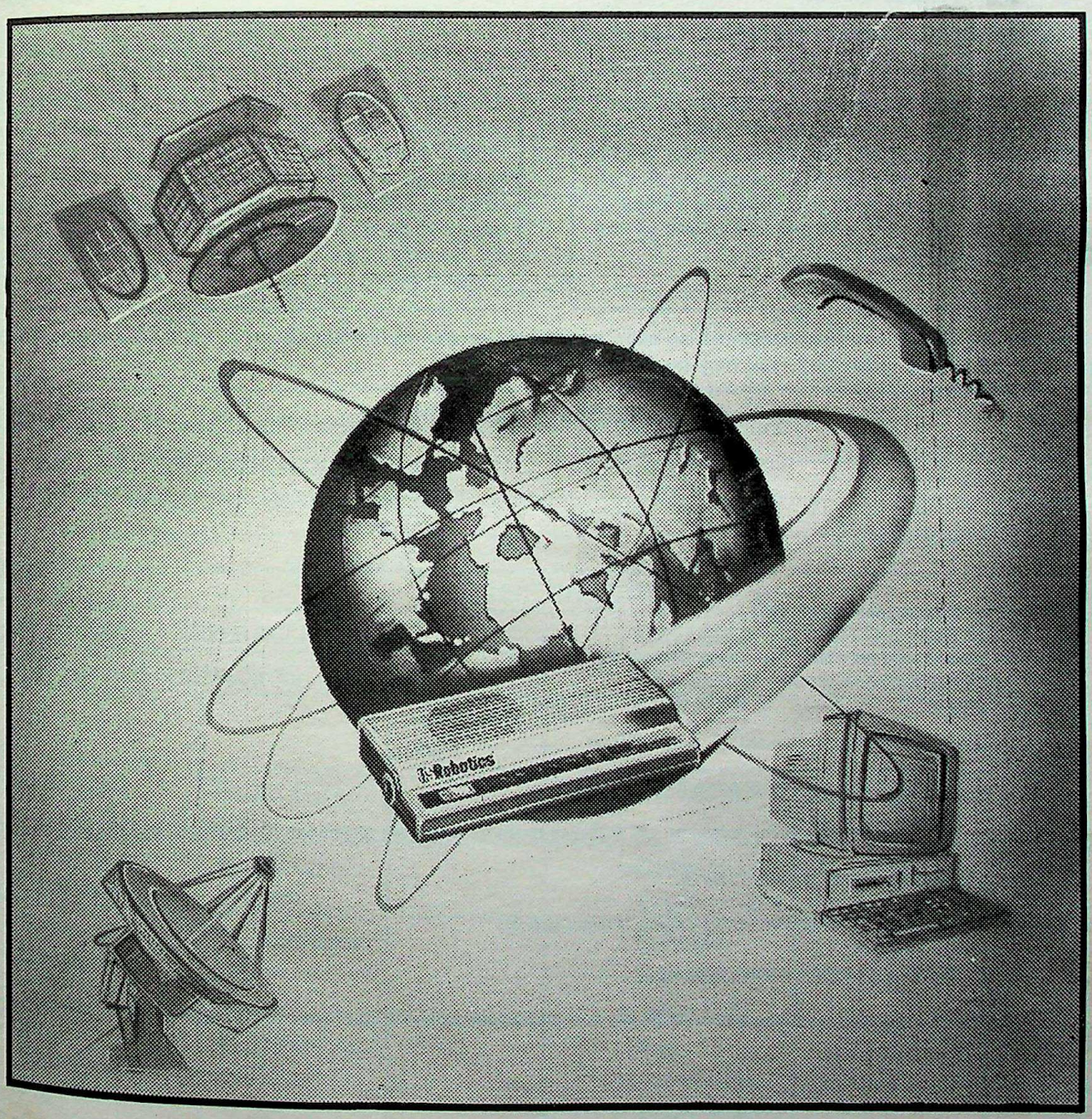
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INTERNET BONANZA

WIN a fabulous US Robotics Sportster 14,400 bps modem PLUS

One year Free subscription to Dataquest ■ PC Quest ■ Voice & Data.



Accent

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MICROSENSE - CYBER MEDIA INTERNET BONANZA

The Internet is here. The global system of millions of computers linking 30,000 networks in 71 countries with over 20 million users. Now this information superhighway is accessible to you. All you need is a PC, a telephone line, a good modem and an Internet ID from Videsh Sanchar Nigam Limited (VSNL).

Microsense is the authorised distributor for US Robotics Inc. of USA, the worlds No.1 modem manufacturer. Microsense is also the authorised All India Agent for VSNL for their Gateway Internet Access Services (GIAS). Cyber Media is the leading publisher of computer related magazines Dataquest, PC Quest and Voice & Data. Together, we will put the world of Internet at your fingertips. And the opportunity to win the fabulous prize.

Rules for Eligibility.

1. Read the following 4 page VSNL Application Form carefully and fill it completely. Sign and date it and send it alongwith your cheque for the selected category plus Rs.1000/- Registration Fee. Incomplete forms will be disqualified.
2. You must also complete the Microsense Questionnaire given below in full and send it along with the VSNL Application Form and cheque. Allplications without the accompanying cheque and the Microsense Questionnaire will be disqualified from the Lucky Draw.
3. Your cheque should be made out in favour of **Videsh Sanchar Nigam Limited.** Your application alongwith your cheque should reach Cyber Media not later than January 15, 1996 to make you eligible for the lucky draw to be held on February 29, 1996. Please mail all six pages with your cheque to: CYBER MEDIA, 2, Jain Chambers, 577, S.V. Road, Bombay 400 050
4. Please select the category you wish to subscribe to.

(A) **Shell Account** - Using Dial-up Access to GIAS HOST. The primary level of access for Internet users. Shell Account subscribers can access GIAS HOST computer and avail all Internet Services, i.e., E-Mail, File Transfer, Remote Log-in, etc., primarily limited to text based services. No software is required at the subscriber side for Shell Account.

(B) **TCP/IP Account - VSNL.** The second level of access allows subscribers to use Transmission Control Protocol/Internet Protocol (TCP/IP) software to connect on dial-up or leased basis to the GIAS. TCP/IP gives complete graphics capability. TCP/IP subscribers would require to have software needed for E-Mail, File Transfer, Remote Log-in, WWW, etc. This software is also supplied by Microsense.

Should you still require any clarification please call Cyber Media or any Microsense Office at the numbers given below. Act now to become a Netsurfer... you may be the lucky winner.

MICROSENSE QUESTIONNAIRE

Name : .....

Address : .....

.....Pin Code : .....

Tel. : .....Fax : .....

Please tick the appropriate boxes. ☑

☐ Yes, I have a modem which I am using at present.

☐ It is a (make) ..... Model No.....

I purchased this modem in (month) ..... (Year) .....

☐ No, I am not using any modem at present.

☐ I will be glad to receive complete details on US Robotics modems which are distributed nationally by Microsense.

☐ At present, the Operating System I use is:

☐ DOS ☐ Windows ☐ Windows 95 ☐ Others (Please specify)

☐ I use the following Communications Software.....

☐ I will be glad to receive complete details of all the communications Software packages distributed by Microsense.

Signed.

Date :

MICROSENSE COMPUTERS PRIVATE LIMITED. Bombay : (022) 2872948/2825441/2831489/2836642. Fax: 2836643. **Delhi :** (011) 6410134/6465855/6470619/6470620. Fax : 6465855. **Bangaore :** (080) 2213[illegible] 2273558/2273559. Fax : 2210816. **Madras :** (044) 8276469/8256529. Fax : 8256529. **Secunderabad :** (040) 845008/846266/844781. Fax : 814021. **Calcutta :** (033) 748962. Fax : 47[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

APPLICATION FORM FOR
VSNL GATEWAY INTERNET ACCESS SERVICES (GIAS)

MICROSENSE

Through
MICROSENSE COMPUTERS PRIVATE LIMITED

For Office use
Billing Code :
Customer Code :

Videsh Sanchar Nigam Limited
Bombay/New Delhi/Madras/Calcutta/Bangalore/Pune
Attn : Customer Relation

Dear Sir,

I/We wish to enrol myself/ourselves as subscriber of VSNL Gateway Internet Access Services(GIAS). The necessary particulars are as follows :

1. Name of the applicant : _____
2. Billing Address : _____
   _____
   _____ Pin Code _____
3. Contact Name : _____
   Phone : _____
   Fax : _____
   Telex : _____

SECTION 2 : To be completed by Dial-up and Inet-GPSS Subscribers

4. ACCOUNT OPENING INFORMATION :
   TYPE OF ACCOUNT : DIAL-UP ACCESS

Registration Fee : Rs. 1000/-

SELECT ONE CATEGORY					
CATEGORY - 1 SHELL ACCOUNT			CATEGORY - 2 TCP/IP ACCOUNT		
This Account is available for : 9600 Bps			This type of Account is available for :9600 Bps		
		(TICK ONLY ONE)			(TICK ONLY ONE)
Individuals	Rs. 5000 p.a./ 250 Hrs.		Individuals	Rs. 15000 p.a./ 250 Hrs.	
Commercial Organizations	Rs. 25000 p.a./ 250 Hrs.		Commercial Organizations	Rs. 25000 p.a./ 250 Hrs.	
Software Exporters 100% EOU	Rs. 20000 p.a./ 250 Hrs.		Software Exporters 100% EOU	Rs. 20000 p.a./ 250 Hrs.	
Non-Commercial Organizations	Rs. 15000 p.a./ 250 Hrs.		Non-Commercial Organizations	Rs. 15000 p.a./ 250 Hrs.	

Note : I-Net/GPSS/RABMN subscribers operate only shell accounts

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

USERNAME
(Please enter your username as you desire at login time)
(Less than 8 characters)

HOSTNAME
(TCP/IP Accounts only)
(Less than 8 characters)

PASSWORD
(Less than 8 characters)

SOFTWARE (OPTIONAL)
(Subject to Availability)

TRAINING (OPTIONAL)

SECTION 3 : To be completed by leased line subscribers only.
(Tick appropriate category and Line Speed)

	Line Speed			
	2.4 Kbps	9.6 Kbps	64 Kbps	128 Kbps
Leased Access to GIASS Gateway	Registration Rs. 10,000/- Installation Rs. 2000/-	Registration Rs. 10,000/- Installation Rs. 2000/-	Registration Rs. 10,000/- Installation Rs. 10,000/-	Registration Rs. 10,000/- Installation Rs. 10,000/-
Commercial Organization	Rs. 1,50,000/-[ ]	Rs. 6,00,000/-[ ]	Rs. 15,00,000/-[ ]	Rs. 25,00,000/-[ ]
Software Exporter/100%	Rs. 1,20,000/-[ ]	Rs. 4,80,000/-[ ]	Rs. 12,00,000/-[ ]	Rs. 20,00,000/-[ ]
Non-Commercial Organization	Rs. 60,000/-[ ]	Rs. 2,40,000/-[ ]	Rs. 6,00,000/-[ ]	Rs. 10,00,000/-[ ]

SECTION 4 : To be completed by I-net/GPSS Subscribers only

Packet Swiched Network Access :

1. GPSS
   a) Dial-up — 2.4 KBPS [ ] 9.6 KBPS [ ]
   b) Leased — 2.4 KBPS [ ] 9.6 KBPS [ ] 64 KBPS [ ]
2. INET
   a) Dial-up — 2.4 KBPS [ ] 9.6 KBPS [ ]
   b) Leased — 2.4 KBPS [ ] 9.6 KBPS [ ] 64 KBPS [ ]
3. RABMN [ ]
4. HVNET [ ]
5. Subscriber Category :
   i) Professional [ ]
   ii) Non-Commercial Organization [ ]
   iii) Software Exporter/100% Eou [ ]
   iv) Commercial Organization [ ]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

iv) Software Exporter/100% EOU [-]

v) Commercial Organization [ ]

6. Payment particulars :

(i) Cheque/D.D. No. _____ Date _____

(ii) Bank Name/Address : _____

NOTE :

1. Dial-up access fees is applicable for 250 hours or one year whichever is earlier.
2. Leased subscribers are required to obtain local leads from DOT/MTNL upto VSNL Gateway Internet node in Bombay, New Delhi, Madras, Calcutta or to I-NET/GPSS Node in another cities and also to provide the required modem/other hardware etc.
3. Subscribers seeking account via I-NET/RABMN/HVNET are required to furnish a copy of DOT/MTNL providing such account.
4. Leased subscriber would have option to pay charges in advance in four equal quarterly instalments.
5. Registered Software exporter or 100% EOU needs to produce a certificate from respective Government bodies showing that their Annual export earning is more than 100,000 US$ per connection needed on Gateway Internet Access Service.
6. Students are required to furnish a copy of certificate from their Principal each year.
7. Dial-up account for 2.4 KBPS would be provided from December 1995. Professional category would be provided only shell account.

BROAD TERMS AND CONDITIONS OF GIAS SUBSCRIPTION

1. VSNL shall update Gateway Internet Access Services (GIAS) without prior intimation to its subscribers.
2. The subscriber is required to use Telecom Engineering Centre (TEC), New Delhi approved interface Equipment for accessing Gateway Internet Access Services. In case where it is necessary to pay Licence Fee to Department of Telecommunications/MTNL for connecting Modem/other Interface equipment etc. to PSTN, subscriber is required to complete necessary formalities with local Department to Telecommunications/MTNL office.
3. The Gateway Internet Nodes at Madras, New Delhi, Calcutta shall be connected to main Node at Bombay through 64 Kbps lines provided by Department of Telecommunications. The International connectivity is provided via satellite to Internet Node at USA. VSNL would try to maintain these links as reliable as possible. However, it would own no responsibility in case of interruptions in the network beyond its reasonable control.
4. VSNL would try to upgrade Network capacity so as to provide desired speed of connections to the subscribers. However, the subscriber understands that he would be able to operate at the desired speed only for 80% of time.
5. VSNL owns no responsibility for the reliability of messaging through Gateway Internet Access Services.
6. The subscriber of Gateway Internet Access Services is not allowed to resell the Internet Services.
7. Value Added Telecom service provider would require necessary permission/licence from Dy. Director General (CS), Department of Telecommunications, Sanchar Bhavan, 20 Ashoka Road, NEW DELHI-110 001. (Tel. : 3326255/3032855-Fax : 3327656)
8. The subscriber of Gateway Internet Access Services would not be allowed to use Gateway Internet Services for Inter-active Voice or Fax messaging.
9. The subscriber understands that the software supplied by VSNL is copyright protected and copying of the same is liable to attract legal action under Copy Right Act.
10. The subscriber is required to fully comply the provisions of the Indian Telegraph Act, 1885, and the Indian Telegraph Rules made thereunder and any amendments of replacements made thereto from time to time.
11. The subscriber is required to ensure that objectionable or obscene messages or communications, which are inconsistent with the established laws of the country, are not made by him or any other person using his password.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

12. VSNL may revise the tariff for Gateway Internet Access Services from time to time at its discretion.

13. Payment of bills - It would be the responsibility of subscriber to make advance payment of Gateway Internet Access Services. VSNL would discount the service in case of non-receipt of advance payment without giving any notice to the subscriber.

14. Force Majeure-If at anytime, during the continuance of Gateway Internet Access Services, the performance in whole or part, of any obligation under it shall be prevented or delayed by reason of war, hostility, acts of the public enemy, civil commotion, sabotage, fire, flood, explosion, epidemic, quarantine restriction, strikes, lock-out or act of GOD etc., the subscriber shall not have any claims for damages against VSNL in respect of non-performance or delay in performance of Gateway Internet Access Services.

15. Arbitration of Disputes-In the event of any question, disputes or difference arising out of provisions of Gateway Internet Access Services, the matter shall be referred to the sole arbitration of the Chairman and Managing Director, Videsh Sanchar Nigam Limited, Bombay.

I/We have carefully read the terms and conditions of the agreement and technical specifications of Gateway Internet Access Services and agree to abide the same.

Place : Signature :

Date :

For Office use :

Billing Code :

Customer Code :

Date of Opening of Account :

E-Mail Address :

Host Name :

Domain Address :

Customer informed on phone :

Signature :

Agent Code : **BAI Ø1 (MICROSENSE COMPUTERS PVT. LTD.)**

Date :

Place :

Agent's Signature :

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Microsoft Adopts Sun's Java, Abandons MSN

Responding to an urgent need to get serious in the Internet market, Microsoft has dumped its four-month-old Microsoft Network operation and jumped the Java bandwagon. Java is the Internet browser software from Sun Microsystems.

Microsoft chief Bill Gates says his company will pay Sun royalties for the use of Java as the basis for Microsoft's future Internet products.

In adopting Java, Microsoft is avoiding a potentially painful confrontation with Sun and other Internet navigator providers. With its move, Microsoft has conceded the inferiority of its own Internet solution, "Internet Explorer," and by relegating the Microsoft Network to a mere Web site, the company has also made it clear that it no longer sees any long-term potential for proprietary online services. Only two years ago, Gates had pledged Microsoft Network to be a major threat to the Internet. And in August, at the launch of Microsoft Network, the company expected it to quickly take control of the online service market.

The Java announcement is a major coup for Sun. Because Windows software runs 80 percent of the world's personal computers, Microsoft's adoption of Java makes the program the *de facto* standard for sharing information on the Internet.

For computer users such standard means they will be able to access a much wider variety of sites on the Internet regardless of what kind of software and computers they use. the process, it breaks down the barriers that now prevent easy interaction between Windows, Macintosh and other types of computers.

"The Internet is going to become better, faster and more accessible because there is a standard programming," says Jon Kannegaard, chief operating officer of Sun's Java product division. "There is not going to be a VHS versus Beta battle on the Internet,"

Some technology analysts view Java as one of the most serious threats to Microsoft's future. Java allows programmers to create mini-programs, call "applets," that can be transmitted over the World Wide Web. The "applets" potentially can be used in place of Microsoft's larger and more complex programs.

Netscape Communications has already incorporated the Java language in the latest version of its Internet browser known as the Netscape Navigator. The Netscape product is dominating the browser market, overwhelming Microsoft's own browser called Internet Explorer.

Gates says that Microsoft would use Internet products developed by other competitors, including Oracle, Spyglass, and Computer Associates International.

Sun officials says its programmers would help Microsoft make Java compatible with Windows 95. According to Gates, Microsoft will soon release a new version of its Office suite that will be easier to use with the Net. A new version of Windows NT that also will be able to control Web pages is also in the works.

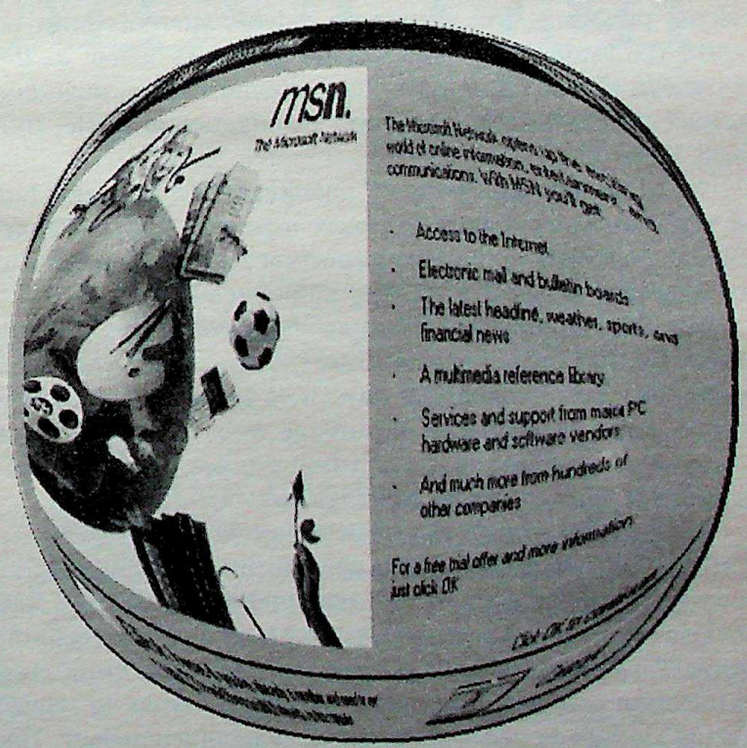
Gates says the new agreements will allow Microsoft to sell more of its software and operating programs. "The PC by far is the most important" tool for using the Internet, he says, adding that the company's move represented the "awakening of a sleeping giant."

Gates stresses that every business unit at Microsoft is working on ways to link its products to the Internet. He says ultimate winners—the companies that will make the most money off the Internet—remain unknown. Gates says he was confident that Microsoft could come from behind to take a lead in the market for Internet software. He likens his company's position to its takeover of the spreadsheet market despite an early lead by Lotus. Microsoft did that, he says, by adopting many of the standard features Lotus used then, expanding on that with new features of its own. Microsoft will turn its Windows 95 operating system into a great way to view material on the Internet.

Microsoft Network: Dead In Its Crib

With its new Internet strategy, Microsoft is packing up its 3-month-old Microsoft Network online service by placing the subscriber service on the Internet and giving much of its content away for free.

The move likely represents the first step in a major shift away from private online services such as CompuServe and America Online, toward the vast Internet. Beginning early



next year, MSN will become one of many ways to connect to the Internet. Microsoft predicts competitors such as CompuServe and America Online will do the same thing.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Online services offer exclusive content and are open only to members who pay monthly fees plus hourly charges for extra use. Most content on the Internet, on the other hand, is open to anyone free of charge. But to access the information, computer users need an Internet provider. Those who don't have an Internet connection through their employer or school usually use an outside service, which charges a fee. What MSN hopes to provide is not only access but some of its own content, packaging of information and an easy-to-use method of searching for information.

No one knows for sure yet how Microsoft—or any other company—will make any money from information posted on the Internet. The idea, though, is that popular sites will attract enough users to draw advertisers.

Bill Miller, director of marketing for MSN, said Microsoft was not abandoning all the effort put into the network—research worth tens of millions of dollars—but acknowledged the concept of private online services "doesn't make sense anymore." The Internet is just so much bigger," he said.

PowerPC Clone Outperforms Pentium 3-to-1

Exponential Technology, a Silicon Valley start-up with just 35 employees, is making heads turn with its announcement that it has created a clone chip of the Power PC microprocessor that outperforms Intel's fastest Pentium processor by a factor three.

Exponential says its low-cost chips will find their way into the computers of consumers who want to run speedy multimedia programs, like running a video conference with no extra hardware. But Exponential's promises follow in the footsteps of many that have made similar claims, including unmet promises from the Power PC alliance of Apple, IBM and Motorola.

"It might help the Power PC position on the high end, but it might also be substantially more expensive," says Michael Slater, publisher of the Microprocessor Report. "You have to be skeptical about it until they ship something."

The first Exponential microprocessor could ship in early 1997. By that time of course, Intel will have had a chance to catch up. But Exponential says it is likely to maintain a rather large performance advantage over Intel processors because of a unique manufacturing process that few semiconductor makers could adopt quickly.

Exponential uses chip production process known as CHBiCMOS, which combines several process technologies. George Taylor, an Exponential co-founder, championed this technology at Sun Microsystems and later at MIPS Technologies. Taylor is convinced that past failures in this exotic chip fabrication process can now be overcome thanks to refinements such as better cooling and packaging technology. The chip will reportedly have half the number of transistors as today's leading processors.

In essence, the CHBiCMOS process enables clock speeds that are three times faster than the mainstream man... ing process as well as the ability to put a lot of se... cache memory on the same chip as the microproce...

Exponential was founded 29 months ago. It was in part by Apple Computer and founded by a team of ... veterans. It also could give a much-needed boost ... underdog Power PC team.

The Power PC alliance hasn't really met its goal of ... ing chips that are so fast that users might be ten... dump their Intel-based computers and switch to a ne... puting architecture. But while Exponential's deve... may be a savior to the PowerPC platform, it is also a... rrassment to PowerPC designers whose chips aren't ...

Besides Apple, Exponential has the financial ... from former Apple executive Jean-Louis Gassee, ... firms Itochu (formerly C.Itoh) and Innotech, and se... the Valley's major venture capital firms.

Korea Okays US Chip Plants

South Korea's Ministry of Finance and Econo... given its approval to Samsung Electronics and ... dai Electronics Industries to build their fi... based DRAM memory chip fabs. The two facilities w... $2.6 billion in construction and equipment to bring ... and will produce 16 and 64 megabit DRAMs. Another ... billion fab has been announced by Japan's Toshiba ...

Oracle Readies Internet Suite For Launch

Oracle is reportedly planning to announce a ... called "Interoffice," a software "suite" that co... tools for accessing the World Wide Web wit... office computer tools in order to improve employee ... ration and interaction.

The idea is to make it easier for workers in remote ... to access centralized mainframe computers where i... tion is stored. The software, code-named "Bandwag... together e-mail, web tools, systems administration s... and data base management software that is Oracle's sp...

Oracle's software will run on Intel-based compu... works and compete with similar corporate computer ne... such as those connected to IBM AS/400 minicompu...

Equipment Firms Unite O... Lithography

Optical lithography, once believed to have no use ... semiconductor industry beyond 1.5 micron, ... still the industry standard at state-of-the-...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

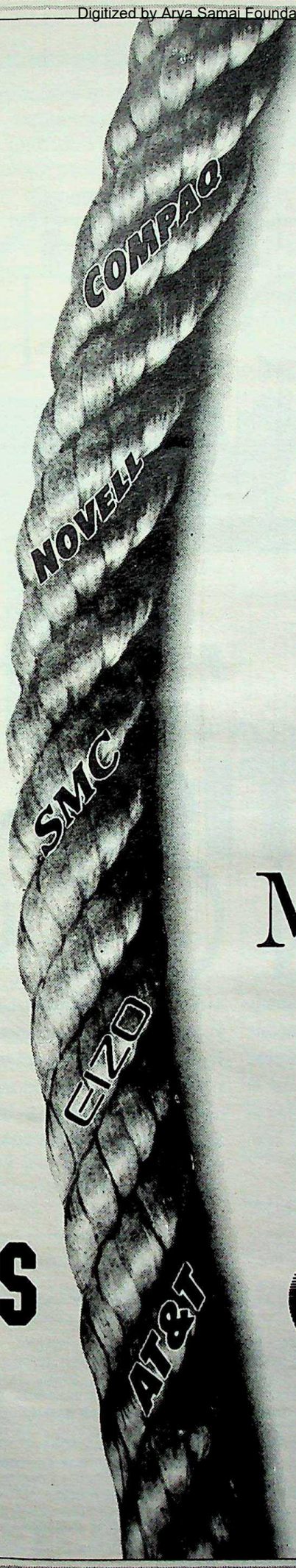
ROPE

IN THE

BEST

I. T.

SOLUTIONS



COMPAQ

Affordable Quality DESKTOPS

Manageable SERVERS

FROM

MINICOMP

MINICOMP

Mktg. Off : 23-A, Shah Industrial Estate, Off Veera Desai Road, Andheri (W), Bombay 400 053. Tel : 6269498/9386. Fax : 6292737, 8362424.

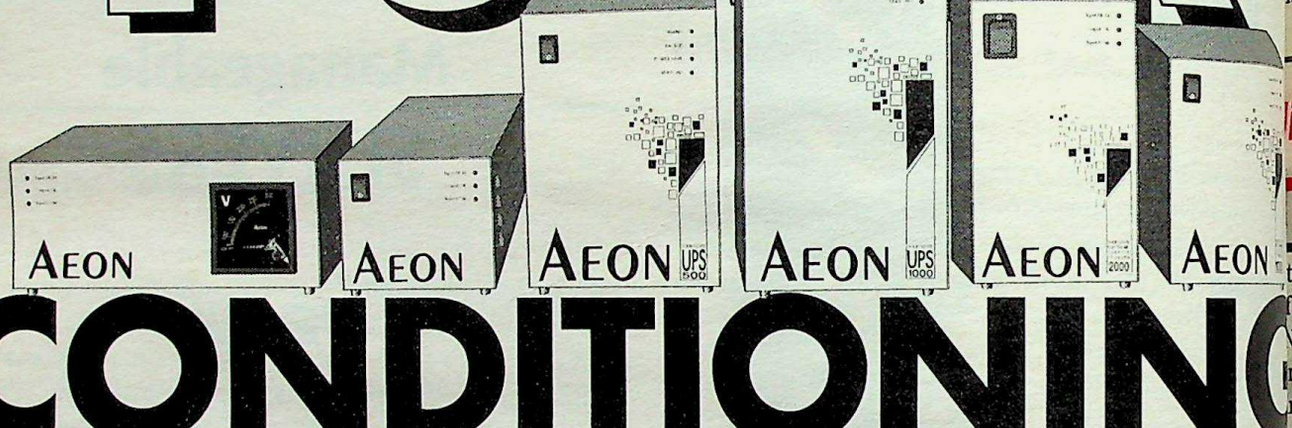
Branch Off :
BANGALORE Tel/Fax : 2274389. **BARODA** Tel : 334325, Fax : 338150. **CALCUTTA** Tel : 766459, Fax : 766946. **DELHI** Tel : 4615612, Fax : 4640582. **HYDERABAD** Tel/Fax : 235803. **MADRAS** Tel : 451464, Fax : 4341870.

CANCOMC/5/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The SILENT REVOLUTION in POWER



CONDITIONING TECHNOLOGY

AEON **UPS** has the advanced Static Changeover technology, beating all the relay based UPS effortlessly in transfer speed. Its fully Solid State AVR takes care of mains voltage variation of an unparalleled 150 to 300V a/c. With a high speed spike suppresser internally built, and capability to withstand input surge of up to 350V, AEON is prepared to take on the worst! Its MOSFET inverter has an intelligent Automatic Idle Run Management incorporated which cuts down unnecessary battery charge wastage when computers are not in use.

AEON **UPS** comes with internal maintenance free batteries for 30, 60 or 120 minutes backup and external battery models for more backup.

AEON **Electronic Voltage Stabilizer** is a fully Solid State Voltage s which takes care of mains variation of 150 to 300V. Incorporating the Tap Changing technology, with extremely fast response time, it is suita in areas of violent voltage fluctuation. With automatic high or low voltage high speed spike suppresser, delayed turn on, and generator comp AEON **stabilizer** provides maximum protection for all input conditions

Quantum

Available at : No.56, Main Channel Road, 1st Floor, Ulsoor, Bangalore - 560 008. Tel.:

● **HYDERABAD** : MC COY ASSOCIATES Ph. : 848052, PRIME COMPUTERS Ph. : 840583, EAST COAST COMPUTERS Ph. : 313208, DAISY SYSTEMS PVT LTD Ph. : 842870, V-TECH SOFTWARE SYSTEMS Ph. : 563415 ● **VISAKAPATNAM** : STARGATE TECHNOLOGIES Ph. : 555920, GAYATRI COMPUTERS & COMMUNICATION Ph. : 546804 ● **VIJAYAWADA** : MIST COMPUTERS SERVICES Ph. : 477620, COSTAL COMPUTERS Ph. : 476157 ● **KAKINADA** : BHAVA COMPUTERS Ph. : 72519 ● **RAJAHMUNDRY** : MICROMATIKS Ph. : 71702 ● **GUNTUR** : FRONTLINE COMPUTERS Ph. : 232370 ● **MADRAS** : DIGITAL TECHNOLOGIES Ph. : FACTORY (I) PVT. LTD Ph. : 8524146, INIT SYSTEMS PVT LTD Ph. : 8276070, SESHI SOFTEC SERVICES Ph. : 8251257, LANTECH SYSTEMS Ph. : LEASING & SERVICES PVT LTD Ph. : 4993120, DIGITAL CHANNEL Ph. : 8275369, MEGATRENDS LTD Ph. : 8250640, VINSHA INFOTECH Ph. : Ph. : 4991236 ● **PONDICHERRY** : MICROPLUS COMPUTERS Ph. : 38913, M D TOLIA COMPUTERS Ph. : 30266 ● **COIMBATORE** : LOTUS DIGITECK SYSTEMS Ph. : 6691170, RCS TECHNOLOGIES Ph. : 5589468, BUSINESS LINK Ph. : 2242033, CONNOISEUR Ph. : 5543668 ● **HUBLI** : NAVNEET SYSTEMS Ph. : 66405 ● **MANGALORE** : MICROSYSTEMS LTD Ph. : 572458 ● **COCHIN** : MUKUND MARKETING Ph. : 311684 ● **CANNANORE** : PRIMETECK SERVICES Ph. : 69781 ● **CALICUT** : RVN ASSOCIATES Ph. : ● **BOMBAY** : FALCON COMMUNICATIONS Ph. : 5130389 ● **GOA** : ALLIED COMPUTER SYSTEMS Ph. : 2235783 ● **AHMADABAD** : MOTHER PHONETIKS Ph. :

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ron processing. But as the industry moves to even more llenging 0.35 micron and beyond requirements, manu-urers of optical lithography and photomasking equip-t are facing major technological challenges.

Hoping to speed up development of more advanced, duction-worthy lithography and photomask systems, atech Stepper and Photronics, have formed a strategic nce aimed at combining their expertise in photolithog-hy and photomask technologies.

The two companies say they will collaborate on develop-strategies and technologies to better serve chip makers want to produce devices with structures of 0.35 micron below.

Photronics is a leading US manufacturer of photomasks, high precision quartz plates that contain microscopic ges of electronic circuits. They are a critical element in manufacturing of chips as photomasks are used to nsfer circuit patterns onto semiconductor wafers.

icrosoft Under Fire Again

The US Justice Department has reportedly renewed its anti-trust investigation of Microsoft after it learned that Windows 95 contains software code that pre-ts access to the World Wide Web for PC users trying to the Net with a NetScape browser.

NetScape, of course is emerging as a major threat to rosoft and its Internet product strategy. Netscape is ning away with the market for Web browsers. Just one ication of how well the company is regarded, its stock has ady shot up to just under $200 a share after being nched just three months ago at $22.

Reports have circulated in the industry during the past k that the DoJ is looking into suspicions that Microsoft y have built some trapdoors into Windows 95 to trip up users using the NetScape browser.

Microsoft officials have denied that the apparent pro-mming problem was a deliberate effort to frustrate Scape users.

Gates, who is currently touring the US to promote his new k, "The Road Ahead," dismissed complaints from Inter-access competitors about the way Windows 95 handles rnet connections with providers other than the Microsoft work.

Analysts point out that Sun, Silicon Graphics and others see the current interest in the Internet as a chance—haps their last—to rewrite the rules of computing in a way t wrests strategic power away from Wintel (Microsoft and el).

Among the cooperative ventures announced are:

Netscape Communications and Sun which have announced ew control utility for the online-oriented Java program-g language they are pushing as an heir to traditional, rosoft-owned, ways of writing software programs.

vaScript" is analogous to the "batch language" of DOS. and Netscape say it will make it easier for inexperienced puter users to make use of existing Java programs. Java itself is a version of the C++ computer language and requires advanced programming skills to operate.

- Silicon Graphics says it would be working with Sun and NetScape to advance SGI's "Virtual Reality Modeling Language," which can be used to view and manipulate 3D images. Silicon Graphics also announced "Cosmo," a tool to be used by people developing World Wide Web pages.
- Intuit has made a slight switch in its online banking strategy, saying it will provide a World Wide Web-based connection to its existing electronic banking service. Nearly 20 banks have signed on with Intuit and were planning to use a service from the firm to link up with home computer users—who could then perform such tasks as checking balances and making electronic payments. Now, Intuit customers will be able to communicate with the service over the Web, in addition to the proprietary system the company had in place.

However, as before, only participating banks will be able to connect with the system.

National Semi Announces Systems Research Lab

National Semiconductor will be setting up a new 200-person research and development laboratory that will take the company beyond its traditional role as a manufacturer of chips. Instead, the lab will enable National to deliver to its customers complete system solutions in silicon.

The trend towards systems design is only a natural step in the evolution of the semiconductor industry which has advanced to the point where a large number of functions that used to be done on dozens of individual chips are integrated onto a single chip.

Beyond semiconductor manufacturing technology, the lab will focus on research that includes computer systems, tools used to design chips, emerging areas of telecommunications such as wireless networks, handheld computers and tiny sensors for automobiles and other devices.

IBM, Apple End Taligent Joint Venture Too

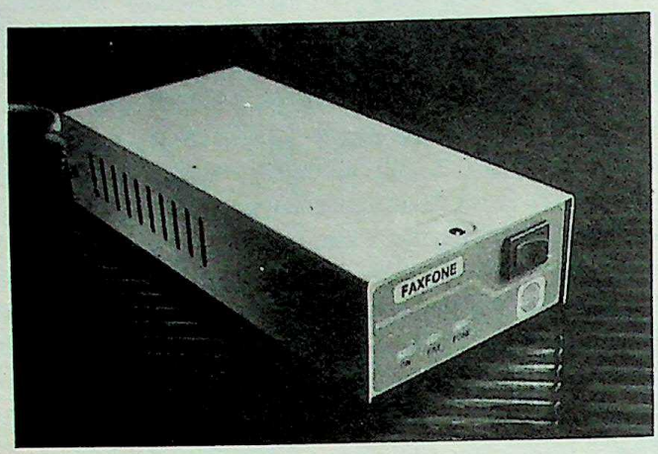
Only two weeks after closing down the Kaleida multimedia joint venture IBM and Apple Computer are expected to announce that they are also ending their other cooperative venture, Taligent, which IBM has agreed to take over and turn into a wholly-owned subsidiary.

Cupertino-based Taligent, in which Hewlett-Packard joined as a third partner in 1994, has 375 employees. But despite the several hundred million dollars spent on the operation, the group has not produced a marketable prod-

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

IS YOUR FAX MACHINE/MODEM PROVING TO BE A LIABILITY ?



What do you do when you have only one telephone line to receive VOICE and FAX/DATA calls without having to dedicate the

FAXFONE: The Versatile Automatic "Line Manager" for MODEM and FAX.

* Eliminates the need for costly dedicated lines for FAX/MODEM.
* Expands usage of existing phone lines.
* Automatically routes voice calls to phone system, answering device, etc.
* FAX calls with calling tones are automatically directed to the FAX.
* DATA calls originating from a MODEM are directed to the MODEM.
* Prevents line access when FAX/MODEM or telephone is in use.
* Status LEDs on panel indicate if line is being used by FAX, MODEM or FONE

IS YOUR FAX-MODEM/COMPUTER LEFT POWERED ON SEVEN DAYS A WEEK.....

... to receive messages / to execute unattended transmission programs?

How do you capitalise on non-peak tariff rates and line conditions, without tiring your costly equipment and saving Power?

AUTON-T : The Intelligent Wake-up System for FAX/MODEMS.

Capitalise on non-peak tariff rates and line conditions.

* Keeps the communication equipment switched OFF when not in use.
* Automatically switches ON equipment for incoming calls.
* Automatically switches ON equipment for unattended transmission.
* Automatically switches OFF equipment after completion of communication with time delay.
* 10 ON-OFF programmes - Facilitates `Group Transmission'.
* Digital LED Display - High Visibility.
* Battery Backed real time clock - accurate and undisturbed by mains failure.
* Highly reliable switching systems.
* Also available AUTON (Regular) without DIGITAL TIMER.

The Product range of **SPARR ELECTRONICS** also includes Uninterrupted Power Supply system with most based P W M Technology. Specially designed for use with Computers and Communication equipments.

Manufactured by :

SPARR ELECTRONICS LIMITED

No.43, YMS Complex, HMT Main Road,Mathikere, Bangalore - 560 054.
Phone : 080-3348346, Fax : +91-80-3348346, Grams : SPARR

Authorised Dealers

■ Ahmedabad - Kirti Sales Pvt. Ltd., Ph: 463466 ■ Bangalore - Abyan Sales, Ph: 5469607 ■ Bombay - Sandeep Computers, Ph: 4944738 Aristo Electronics, Ph: 5614511/5651110, Interconnect, Ph: 4126687 ■ Calcutta - SN Computers, Ph:749090/7133 1409 ■ Chandigarh - Roy Associates, Ph: 607684 ■ Cochin - Spiegel, Ph: 348202 ■ Delhi - Fair Deal Marketing & Services, Ph: 6419763/6420654, Sadilak International, Ph: 5734285/5734283 ■ Gujarat - Tanya Computer Services, Ph: 2692/46531 ■ Indore - Veltronics, Ph: 430194/535382 ■ Jaipur - Bell Infotech Ph: 369292/379292 ■ Madras - Elecom Technologies, Ph: 4821890/4821288 ■ Madurai - Damodar Electronics, Ph: 540969 ■ Moradabad - Elec Ph: 310119/313541 ■ Pune - Microline, Ph: 339272/342746, Smile Multitrade Pvt. Ltd., Ph: 328442 ■ Secunderabad - Anurag Infotech Pvt Ltd. P

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

as sales of Taligent's "CommonPoint" software have been
, and the product's future under IBM is unclear at this
t.

The end of the joint venture is but the latest in a series of
acks for Taligent. In September, Taligent president Joe
ilfelmi resigned to take a job at Motorola. Then in
ober, Richard Guarino, an IBM executive brought in as
porary president, died of a heart attack while going for a
day afternoon jog. He was 49.

Taligent was formed in 1991 to create a next-generation
rating system for personal computers and more powerful
working servers. It was one of a triad of joint offensives by
le and IBM to counter the growing industry influence of
l and Microsoft. The other two were the PowerPC, a new
roprocessor design, and Kaleida, which had been charged
creating a new standard for multimedia computing.

Kaleida was shut down earlier last month, with most of its
heering work absorbed by Apple. And while Motorola
inues to make PowerPC chips, IBM has failed to make
chip the heart of its PC product line the way Apple has
mitted to it. Today, the PowerPC is at best a step ahead
e Pentium, but no where close to double the performance
ntel's chips which was one of the most important initial
nises for it.

Taligent, based on Apple's "Pink" software development
ect, was supposed to create a new operating system
d on object-oriented programming. By late 1993, it
me clear that Microsoft's Windows had developed an
ssailable market position. In response, Taligent scaled
its strategy, and instead set out to develop a set of
ware tools that programmers, especially in corporations,
ld use to create specialized programs, a much smaller
ket. By then, Hewlett-Packard had become a 15 percent
er of Taligent.

Work on CommonPoint, was completed this summer, but
aunch was lost in the news that IBM was buying Lotus
elopment. But even with its less ambitious software
nology, Taligent officials continued to insist that Com-
Point would change the balance of power in the comput-
dustry as much as a new operating system would have.
's because, they said, the tools used to create programs
ld be more important than the operating system used to
them—an argument few people outside of Taligent
ved.

d Now, Web TV For ouch Potatoes

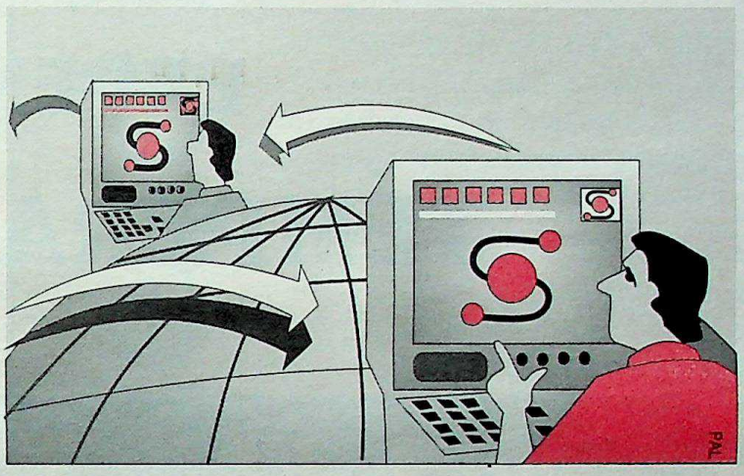
It's nothing like the real thing, but millions of Amer-
icans will soon be able to surf the World Wide Web
never having to click a mouse. They can just watch a
t do the surfing for them, browsing from Web site to Web

Michigan-based cable TV company has launched the
Channel," an automated Web-surfer running on a cable
ystem. A software robot roams from Web site to site,
roughly the way a human user might do, and the results are carried live on local TV.

Some cable companies are moving quickly to give their customers high-speed access to the Web. The Michigan channel, on the other hand takes an interactive medium—the Web—and turns it into something for couch potatoes.

The Web Channel is not a substitute for the real thing, agrees Richard Wiggins, the channel's creator. The idea is to show the Web to people who haven't seen cyberspace but who wonder what the fuss is all about.

The Web Channel's "TV Spider" software browses a selection of Web sites picked by human beings and visits them



from time to time. It runs a browser such as Netscape, and the site appears on TV. Sites include entertainment pages, computer publications, auto-company pages and, from a site run by a San Francisco-based multimedia company, a frequently updated photo of the Bay Bridge.

The TV Spider does more than look at the home page, though. It scrolls down through the page, as a human might do, and travels around several of the sites using hyperlinks in the documents.

Speed Governors For Pentiums

Intel is taking steps to prevent a recent source of microprocessor fraud that leaves consumers burned up and their computers burned out.

New code in its chips will prevent operation at speeds faster than they are marketed for. At Nehru Place or Lamington Road, you could buy 75 MHz Pentium chips "marked up" to 90 MHz chips simply by changing the label. In most cases, the seller will be able to get an additional $100 for each chip marked as a 90 MHz Pentium.

The new circuitry will effectively prevent a chip from being inserted into a system configured to run at a higher clock speed.

The practice of changing performance markings is due to an industry tradition in the chip industry that underrates the performance of microprocessors. At Intel, 75 MHz and 90

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

SOME KEYBOARDS ARE LIKE A *WIFE*

*(Worries Invited For Ever)

NOISY !

EXPENSIVE !!

TEMPERAMENTAL !!!

CHOOSE A *FLIP-TOP-KEYBOARD*

The Only Keyboard With A Tropicalized Membrane

THAT IS

SILENT

ECONOMICAL

DEPENDABLE

Dealer enquiries solicited

Manufactured by : **INDUSTRIAL ADAPTERS,** 149, Guru Gobind Singh Ind. Estate, Western Express Highway, Goregaon (E), Bombay - 400 063. Tel. : 8732788 Fax : 022-6268105

Available at : **BOMBAY** ★ Sapphire Micro Systems : Tel. : 5782160 / 5782753 **BANGALORE** ★ Trinity Business Sy... Pvt. Ltd. : Tel. : 645324 / 648029 ★ Arison Electronics : Tel. : 6648413 / 642411 **MADRAS** ★ Devraj Computers (Pvt.... : Tel. :8525856 **AHMEDABAD** ★ Jaytronics : Tel. : 464546 / 461643 **SECUNDERABAD** ★ Computer Valley : Tel. : 8... **COCHIN** ★ Radha Electronics : Tel. : 366234 / 372436 **TRIVANDRUM** ★ Softec Computer : Tel. : 462395 **CALIC...** IC Soft : Tel. : 62139 **BARODA** ★ Type House : Tel. : 328895 **RAJKOT** ★ Creative Computers : Tel. : 34861 ★ ICM Consultancies : Tel. : 423181 **PUNE** ★ The Hard Shop : Tel. : 423142 **JAIPUR** ★ Computer Jyoti : Tel. : 5... / 511240 **NAGPUR** ★ Spectron Computers : Tel. : 722927 / 723389

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Hz Pentiums roll off the same production line, separated ly by a performance test that rates the chip at the fastest ssible speed it could run at before experiencing problems, ch as burning out. Technically, however, a 75 MHz Pen- um will operate in a 90 MHz system at the higher speed. But t for long, as they tend to burn out in a short while.

Intel discovered the fraud by taking apart the burned-out entium chips in computers returned by irate users.

Starting this summer, Intel will run tests on its chips as ey are proceeding through the manufacturing line. The ompany can determine the likely speed that the chip can andle and then it will be rated while it is still going through he line. Intel can also turn on a part of the chip, known as overnance circuitry, that will limit the chip to running only t the speed for which it is rated. That is similar to speed overnors in cars and school buses, preventing the driver from xceeding a certain speed. If someone tries to run the chip aster than the rating, the computer system won't work at all.

omega Ships 1GB Removable Jaz Drives

Iomega Corp has begun shipping limited quantities of the internal version of its 1 GB "Jaz" removable drives. Full shipments to OEMs will begin in this uarter of 1996.

On the retail shelves, the Jaz drives are expected to sell at 99 or less for the internal model and about $599 for the ternal model. The 3.5" Jaz cartridges are expected to have street price of about $99. Jaz ship with a disk containing az Tools", a utility program for storing, moving, and anaging information.

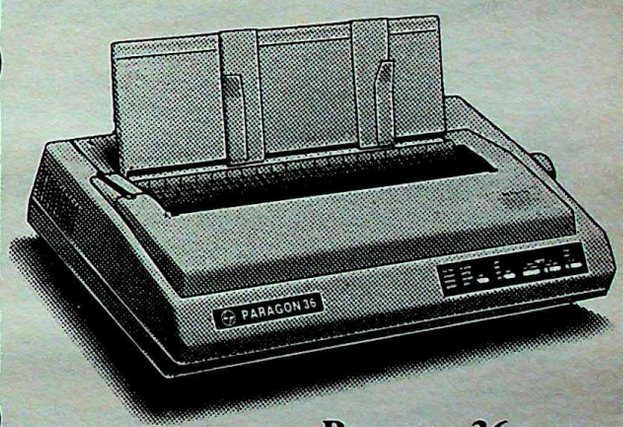
The drives were on display at IT Asia '95 in Delhi. Indian icing could be stiff, though: estimates hover around the Rs 0,000 mark.

200% printhead life

Paragon series from L&T

9-pin dot matrix printers with a difference

Printhead life of L&T's Paragon series is 200 million characters and more – the highest in this range. This means the printhead lasts twice as long. The result : lower operating costs.



Paragon 36
300 cps, 8 NLQ fonts
M.R.P. Rs. 17,495/-*

Data Products Division
LARSEN & TOUBRO LIMITED

Bombay Tel : 6401232 Fax : 6401312
Madras Tel : 4343309 Fax : 4342639
New Delhi Tel : 3731873 Fax : 3731872
Calcutta Tel : 2422301/5 Fax : 2426828

* Only L.S.T.and Octroi extra

DAPR 503 /A

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

The Fast SCSI-II Jaz disks can store and play an entire MPEG-compressed movie or 8 hours of CD quality audio. Sustained transfer rates of up to 6.73 MBps are claimed—faster than many hard drives—with a 12 ms average seek time, 17.5 millisecond average access time, and a 256 kB.

The Jaz drive can also read and write to Iomega's 540MB disks, which are expected to sell for about $69. Both disks will be available individually or in multi-packs.

Inside Intel—A Phoenix BIOS

In end-December, Intel paid $11 million for a 6 percent stake in Phoenix Technologies, a small systems software company in Santa Clara known for its PC BIOS systems. The deal will ensure that Intel will be able to exert greater control over the future of personal computers and ensure compatibility across different brands of computers.

The BIOS (basic input/output system) translates signals from the PC's OS to hardware devices like the drives. Phoenix controls about 30 percent of the BIOS market. Phoenix will train Intel engineers so they can convert to a Phoenix BIOS by the end of next year. The close relationship with Intel will enable Intel to push through changes in the architecture of a PC more quickly, as the Phoenix products will help ensure plug-and-play compatibility.

Competitors might be wary about an investment in Phoenix by Intel, because many other chip makers and motherboard makers rely on Phoenix as well. George Adams, vice president of marketing at Phoenix, said the companies were sensitive to that concern and therefore structured the deal so that Intel did not assume complete control over Phoenix.

Pentium Takes Its Toll On AMD

Strong consumer demand for Pentium PCs combined with Advanced Micro Devices' inability to bring a Pentium-compatible chip to market, is taking a sharp toll on the company's performance.

The culprit is sagging sales of 486 microprocessors because of competition from Intel's Pentium. And to make matters worse for AMD, Intel has decided to continue selling its DX4/100 chip, which segment represents the core of AMD's business. "Intel had appeared to be exiting the 486 market, but came back during the fourth quarter," said AMD chief Jerry' Sanders III.

AMD is struggling to move its operation from 486 chips to faster processors. The company's hopes are no longer based on its own K-5 processor. Instead, AMD made a $865 million acquisition of Nexgen last October. Nexgen has developed Pentium-compatible processors, but lacked manufacturing capacity.

Tadpole Technology's ALPHAbook 1

The ALPHABook 1 is a rugged 233 MHz notebook offers workstation-class performance and portabi OpenVMS users. It is the first output of the May agreement between Digital and Tadpole. It equals a Digital workstation and supports the OpenVMS OS. It is targe software development, defense, communications, engine and performance-critical commercial markets.

"The ALPHAbook 1 features all the hallmarks of Tad full line of workstation-class notebook products, inch a rugged magnesium case, power management and sta notebook weight and form factor," says George Grey, Tadpole Technology.

Powered by a 233MHz Alpha 21066-A microproc with 512K L2 write-back cache, the ALPHAbook 1 fea an integrated PCI, PCMCIA and SCSI interfaces, with inch true color TFT active matrix screen. Removable 2.5- SCSI-2 hard drives are available in 520 MB, 810 MB an GB. System RAM starts from 32-128 MB. Included is a 3 EtherNet card and integrated 16-bit stereo audio for quality sound, internal mic, and audio ports.

Software offered will include OpenVMS OS, DEC dows/Motif, TCP/IP Services for OpenVMS and Open Cluster Client and DECnet/OSI as an add-on option. will see Digital UNIX OS support.

The AlphaBook 1 will be available in early 1996 Tadpole and Digital, and some selected resellers and di utors worldwide. Pricing starts at $13,950 for a system bundled OpenVMS, a 3COM EtherNet card, 32MB and 520MB hard drive.

Informix Offers Solutions for Web Database Connectivity

Informix Software: the leader in parallel proces database technology, has announced its Web base connectivity solution to enable Web ap tions to interface with Informix databases.

Four leading visual Web database tool vend Bluestone, net.Genesis, Spider Technologies, and are members of Informix's new Web Partner Program will offer complete Web solutions by incorpor best-in-class technologies with Informix's OnLine Dy Server.

The solutions address two common methods: co gateway interface (CGI) kits, and visual Web develop tools. These develop robust Intranet and Internet da apps, and connect databases on the Web.

CGI is a program execution similar to SQL query. than simply retrieving static documents it allows dynamic data retrieval.

Two Web Interface Kits (WIK) that allow creati

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ynamic HTML pages for INFORMIX-4GL or INFORMIX-SQL/C, adapt new or existing applications to the Web, or uild Web databases. WIKs containing complete source code o write CGI programs to and simple, self-contained exam-les are available free from Informix's Web site (http://ww.informix.com).

Elaine Feeney, manager, Internet Development, MCI ays "The Informix Web Interface Kit was incredibly aluable to MCI. After finding the sample code on the nformix Web site, I created the interface to retrieve nd display the BLOBS (binary large objects) within two ours."

MCI's internal Web application provides all product ricing, customer letters and graphical reference material or customer support. It uses Informix to store all nformation as BLOBS for retrieval by CSPs using an OS/2 rowser.

McAfee Releases SiteMeter 5.1 for Enterprise-Metering

This is the first major update since December, 1994 and provides complete WAN support via TCP/IP to increase network manageability. According to IDC, iteMeter is the top-selling stand alone metering package ith a market share of 32 percent.

New features include SNMP trapping, local metering, upport for expanded xBase database formats such as dBase nd FoxPro, improved group-based metering, support for dministrator authorized files, NDS support, and preconfig-red metering applications.

Two year subscription for SiteMeter 5.1 ranges from $20 er node (50 nodes) to $15 per node (1,000 nodes). All ustomers receive two years of free updates and free unlim-ed telephone support. SiteMeter 5.1 is also available as an ectronic versions that is neither encrypted nor contains me-bombs.

CA Brings Order To Internet Chaos

As part of a plan towards making the Net safe for business, Computer Associates launched CA Unicenter/ICE (Internet Commerce Enabled): the rst comprehensive solution for securing and managing ectronic commerce.

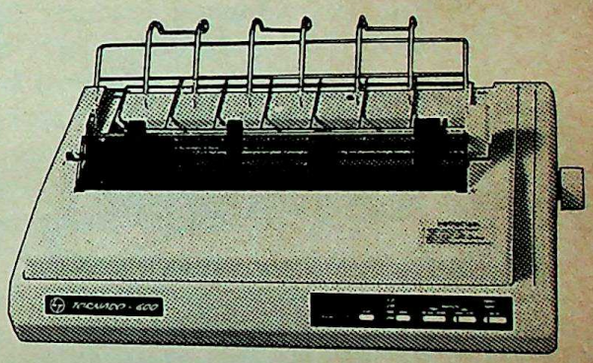
CA is the first to manage the front and back-ends and the etwork in-between. Companies exploiting the Net are obbled by network and systems management limita ons that create unacceptable business risks. CA-Unicenter/ E prevents security breaches, while monitoring and anaging all infrastructural aspects. It is available as tand alone or integrated with Netscape Web server ftware.

Data buffer – 4 times larger

Paragon series from L&T

9-pin dot matrix printers with a difference

Data buffer of L&T's Paragon series ranges from 32 KB to 64 KB – the largest in this range. Most other printers have a data buffer of 8 KB or 16 KB. This large data buffer ensures that your computer is freed faster during printing. The result : increased printing efficiency. Ideal for MS Windows, Graphics and EDP applications.



Tornado 600
600 cps, 8 NLQ fonts,
3 intelligent active interfaces
M.R.P. Rs, 32,995/-*

Data Products Division
LARSEN & TOUBRO LIMITED

Bombay	Tel : 6401232	Fax : 6401312
Madras	Tel : 4343309	Fax : 4342639
New Delhi	Tel : 3731873	Fax : 3731872
Calcutta	Tel : 2422301/5	Fax : 2426828

* Only L.S.T. and Octroi extra

DAPR 504 /A

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Borland Ships Paradox 7 for Win95 and NT

Borland International has begun shipping its new Paradox 7 database that promises ease-of-use, speed, and office suite integration, as well as new developer tools and a smooth transition for existing Paradox users to Windows 95. The product has already won the prestigious "Stellar Innovation" award from Windows Sources Magazine.

New features include Experts to automate virtually every common task and a range of usability enhancements to help beginners to immediately start working with their data. It also offers superb integration with MS Office 95 and Novell's PerfectOffice. It includes new visual productivity tools to allow power users and professional app developers to deliver advanced applications.

The estimated US street price is $299, with upgrades at $89. A special upgrade offer for owners of competitive database products and application suites is $99.

Credit Card Size 486DX2/ 50 PC From Oki

Oki America's Advanced Products Division has released the Oki comPCard486/50: a credit card sized PC weighing less than two ounces for $376. It adds new performance levels to information apps and embedded system controllers that demand PC power, flexibility and compatibility.

"We have focused comPCard's development on meeting the market's need for a comprehensive PC that is small, affordable and fast," says Wes Shimanek, Director of Sales and Marketing.

ComPCard has a 486DX/50MHz CPU with on-card VGA support for standard or LCD screens, and a max 32MB RAM. It's PhoenixPICO BIOS on a 128 kB flash ROM supports PCMCIA-ATA boot options. An EASI (Embedded All-in-one Systems Interface) provides access to ISA, two serial and one parallel ports, keyboard, mouse, speaker, IDE, CRT, FDD, LCD and Power Management.

CA And Microsoft Announce NT Net Solutions

Building on their previous agreement, Computer Associates and Microsoft have announced that they'll Net-enable their co-branded integrated product that manages Windows NT servers.

"The announcement is a major step forward in Microsoft's Internet strategy," says Microsoft Chairman Bill Gates. CA and Microsoft offer an integrated product that includes CA-Unicenter with Windows NT Server, Systems Management Server, and either SQL Server 6.0 or CA-OpenIngres.

According to CA Chairman and CEO Charles B "Enterprises rapidly deploying Web servers need a r robust Internet infrastructure. Now they have one."

The companies will work together to make these Net-ready by adding components from CA-Unicente and MS Internet Information Server. This will provi infrastructure required to build and deploy robus servers on the Internet and private corporate Int (Intranets).

A Secure, Low-Cost Alternative To Groupware

Reach Networks announced Private Informatio change (PIX): a fresh approach to internal cor communications that combines the best featu groupware and the Web.

"The Web is great for getting your message out t general public, but it is not a good solution for commu ing internally because it falls short in versatility, securi privacy," says Doug Kester, President of Reach Netw that has built and operated private communications works on behalf of organizations such as Lexis Co Connect, Toy Manufacturers of America, the American ers Association, and the Government of the Kingdom Netherlands.

The only alterative to PIX has been costly software su Lotus Notes. Private Internet-like solutions, dubbed nets", offer neither the functionality nor the level of co that corporations demand of their internal.

PIX integrates private Web sites, document and relat databases, e-mail, discussion groups, collaboration and a broad selection of newswires. It can also limit access to the public Internet. "For many employees, few Web sites are relevant to their jobs. Giving them these sites saves time and reduces `Web surfing' c business hours," says Kester.

McAfee Enters Mac Anti-Virus Market

McAfee has launched VirusScan for the Mac: a gressively priced anti-virus. The product is bas source code licensed from Northwestern Univ and marks McAfee's entry into the lucrative Mac virus software market. McAfee is the world's leading virus PC software vendor with an estimated market sh 68%.

"McAfee has received overwhelming demand from our enterprise corporate site license clients, and reta tomers to apply our expertise and support against threats within the Mac environment," says Scott G anti-virus product line manager at McAfee.

Kurt Schlegel, a Meta Group analyst, said that the

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

aced by Mac users annually coupled with the new viruses each month are a fraction of Intel-based viruses. However, since most Mac anti-virus developers charge a premium for products, upgrades and support, VirusScan cleans over 99% of known Mac viruses and offers an attractive alternative for both companies and the home user.

Its features include an intuitive interface with point-and-click detection and removal, auto-scanning at startup and file execution, and certification by the National Computer Security Association (NCSA).

McAfee hopes to establish a new benchmark with a software listed at $65 and a $44 estimated street-price (ESP), in a market dominated by a Symantec's SAM and Datawatch's Virex, both listed at $99 with an ESP of $70.

Musical Cookbooks

Gifting an unusual cookbook is always a good choice for gourmands. But better is one that comes with music to fit the mood. Light a candle or two, serve up a meal and listen to the music.

Titles available include Holidays featuring recipes by celebrated chefs, Dinners for Two, Dining and the Opera in Manhattan, and Lighthearted Gourmet. A special dessert package: Nutcracker Sweet invites you to dine while the Sugar Plum Fairy from the Nutcracker dances in the background.

Menus and Music Productions has produced nine titles, each with a CD or cassette with music to dine by, that retail between $24-28.

"Visible Woman" Arrives At Top Speed

The High Performance Parallel Interface (HIPPI) Forum presented Visible Woman: a 3D digitized human at Supercomputing '95 held in early December 1995 at San Diego. This body atlas was created from digitized photos of a human body's 1/3 mm slices. The images can be manipulated to show organs, bones and blood vessels.

HIPPI is an ANSI standard with data rates exceeding of over 1,600 MBPS: the fastest networking available today. HIPPI members are include networking vendors and educational and research institutions.

This was the largest such network publicly demonstrated. Fibre optics linked computers on the 1,000 mile "CASA Gigabit Testbed" WAN at Los Alamos National Laboratory, CalTech, JPL, and San Diego Supercomputing Center) over a WAN. This has been used over the past five years to refine wide-area, gigabit-per-second networking, using HIPPI over a Synchronous Optical Network (SONET).

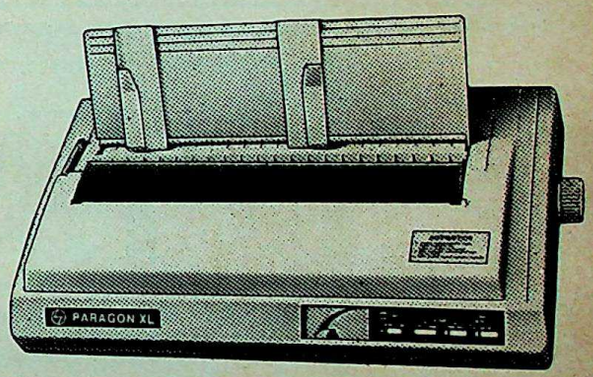
SVNS

Memory back-up facility

Paragon series from L&T

9-pin dot matrix printers with a difference

In L&T's Paragon series, you can store regularly used settings as default settings. You do not have to set the printer to your requirements each time. When the power supply is switched on, settings are also restored. Most other printers in this range do not have this memory back-up facility.



Paragon XL
375 cps
M.R.P. Rs. 16,495/-*

Data Products Division
LARSEN & TOUBRO LIMITED

Bombay	Tel : 6401232	Fax : 6401312
Madras	Tel : 4343309	Fax : 4342639
New Delhi	Tel : 3731873	Fax : 3731872
Calcutta	Tel : 2422301/5	Fax : 2426828

* Only L.S.T.and Octroi extra

DAPR 505/A

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

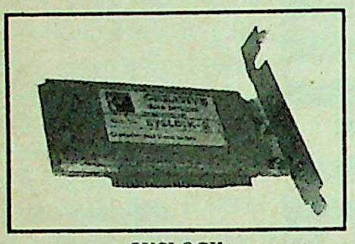
Digitized by Arya Samaj Foundation Chennai and eGangotri

You have a choice of HARDWARE LOCKS FOR COPY PROTECTION.....

Creative Data Services offers a range of Tough HARDWARE LOCKS for protecting your software from pirates. Protection schemes based on these locks are available for programs written in any language.

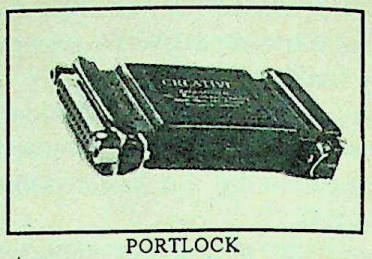
The art of making Hardware Locks and Computer security systems has been the business at Creative Data Services since past eight years and more than 5000 locks of SYSLOCK series are guarding expensive software systems from pirates and unauthorised users.

A choice of TWO models of hardware Locks called SYSLOCK and PORTLOCK is available for protecting any of your packages from piracy.



SYSLOCK

SYSLOCK : The **SYSLOCK** is an addon board which is to be plugged into the PC mother board. A fully encapsulated electronic module operating on the high speed signals on the bus, the **SYSLOCK** offers a very high level of security.



PORTLOCK

PORTLOCK : The **PORTLOCK** gets plugged into the parallel port of PC and provides a bypass connection to printer. So the parallel port on which **PORTLOCK** operates can still be used for connecting a printer. The complex manner in which the **PORTLOCK** gets into operation and the complex sequence of responses it gives out make it an ideal security device.

SCHEME OF USING LOCKS : Each unit of lock (**SYSLOCK** or **PORTLOCK**) is uniquely encrypted and supplied with software to couple a copy of your programe with the lock. Once a copy of software is coupled with a lock, the software will work ONLY when the lock is present in the system, so no one can pirate your software.

Creative Data Services
No.4, Narayan Reddy Building, BEML Road, HAL III Stage, Bangalore-560 075. Phone/ Fax : 080 - 5280292

Also available
SYSLOCK-T for system protection
SYSLOCK-B for Banking Systems
SYSSWITCH Automatic ON/OFF control for PC

PROTEC YOUR SOFTWAR FROM PIRACY

AutoTex 3.4

FOR MS-WINDOWS 3.1

CAD SOFTWARE FOR TEXTILE DESIGNING

SALIENT FEATURES

- Any size of graph or design. Scan, draw or import designs in PCX, BMP, TIF formats.
- Create and use any weave.
- Powerful drawing and editing features.
- Many other textile designing utilities.
- Industry specific printouts for Knitwear, Laces, Carpets, Jacquards etc.
- Graph printout as per the card cutter.
- Colour reduction and colour separations.
- View and print woven result simulation.
- Support for computerised card punching machine and electronics jacquards.

DEMO PACAKAGE : Send Rs. 500/- by DD

AUTOPUNCH–OUR COMPUTERIZED CARD PUNCHING MACHINE IS READY

PERSONALIZED TRAINING CENTRE OPEN

APPLICATIONS

- Furnishings
- Upholstery
- Dress Material
- Sarees
- Bed Covers
- Towels
- Plastic Mats
- Carpets
- Durries
- Blankets
- Lables
- Knitwear
- Laces
- Table Mats
- Suiting & Shirting
- Printed Fabrics

PLC SYSTEMS HOUSE

PLC Consulting Company
Gwalior House, 37 Rajpur Road, Delhi - 110 054, INDIA
Ph: 011-2510320, 011-2522383, Fax: 011-2922917
E - mail : avinash.plc@axcess.net.in Tlx: 031 78230

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

batteries to charge your development!

Visual dBASE.Combines leading edge visual tools with a flexible yet easy programming language to deliver the most productive database for buisness professionals & application developers.

Borland Delphi.Combines an optimizing native code compiler, visual RAD tools & a scalable database engine. Making this next generation visual development tool the fastest way to the fastest applications.

Borland C ++. Targets DOS, Windows & Win 32 from a single development environment.

AABHA SOFTWARE

(A Division of Aabha Management Systems Pvt. Ltd.)

22 A, MIG, Katwaria Sarai, Opp. Qutab Hotel, New Delhi - 110 016.
Ph. : 686 8923, 66 1740. Fax: 696 8767. E - mail: infotek.aabha@axcess.net.in

AABHA SYSTEMS SERVICES SOLUTIONS

AUTHORISED RESELLER : WIPRO INFOTECH GROUP SOFTWARE PRODUCTS DIVISION

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

New With ALP 3.0 there is no room at the top... for your Competition

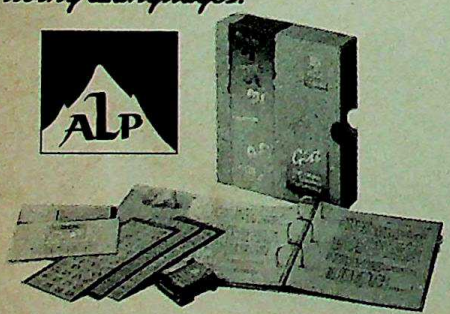
APEX LANGUAGE PROCESSOR (ALP) for DOS/UNIX

*Presenting the **ALP Version 3.0** with enhanced features such as **Mail merge, Auto save, Indian language e-mail facility in ALP for UNIX, Flip Case and much more.***

Solutions unparalleled, unrivaled to motivate you to higher planes in word-processing where growth is only in upward direction and the view even better. True, you can look down on competition.

*After all, it comes to you from the **GIST Group** which is ever striving to get you on the Information Super Highway without ignoring our diverse roots of communication.*

*We here at GIST, call it **Nurturing the living Languages.***

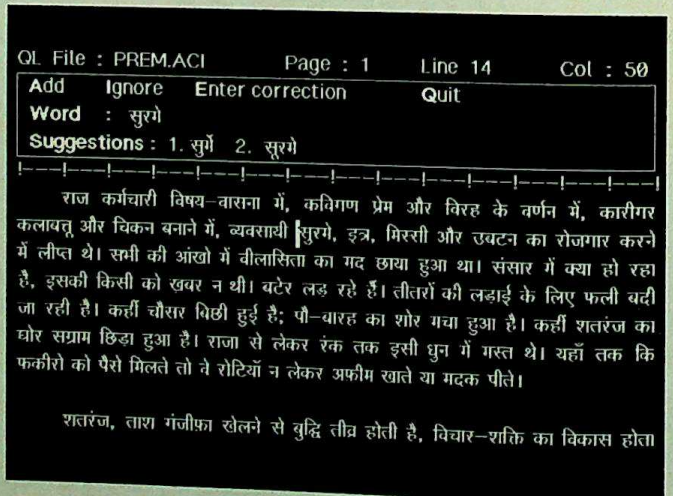


New features of ALP Version 3.0

- Mailing made easy with the help of Mail Merge.
- Easy generation of Table of Contents.
- Expeditious document generation through Keyboard Macros.
- AutoSave.
- File Convert Utilities.
- Online help of Keyboard in use.
- Flip Case.
- Indian language electronic mailing facility available in ALP for UNIX.
- Phonetic keyboard with user configurable options.

Salient features at a glance

- WordStar compatible commands.
- Display English, Indian and other s... such as **Assamese, Bengali, Devanagari, Gujarati, Kannada, Malayalam, Oriya, Punjabi, Tamil, Telugu, Tibetan, Bhutanese & Sinhalese**
- Allows transliteration between Ind... scripts and diacritic Roman.
- Provides any combination of the following display attributes: Bold, ... Highlight, Underline, Expand and Double-height.
- High quality printer fonts on dot ma... & Laser printers.
- Allows mixing of scripts within a paragraph, through Font Attributes.
- Includes SpellCasters for Hindi, Ma... & Gujarati.
- Requires a PC-AT with minimum 64... RAM and DOS 4.0 or higher.



ALP Screen with SpellCaster in Hindi

For further details co...

CENTRE ... DEVELOPMENT ... ADVANCED COMP...
Ganesh Khind, Pune 4...
Tel.: (0212) 357020, ... 79/83, ...
Tlx.: 0145-7615 CD...
Fax.: 91-212-...

All brand names and trade... are properties of their respe... owners.

Race to the top..... Get in touch with our distributor nearest to you.

AUTHORISED DISTRIBUTORS FOR GIST SOFTWARE Ahmedabad (079) Shreedip Services Pvt. Ltd. 407173 Fx: 6425570 **Amravati (0721)** D.P. Systems 79154 **B...** **(080)**Pegasus Software Consultants Pvt. Ltd. 2215307 Fx: 2213281 ■ Transmatic Systems Ltd.2220619 **Baroda (0265)** Shreedip Services Pvt. Ltd. 555902 **Bhopa...** Turning Point Systems 565147 Fx: 558342 **Bhubaneshwar (0674)** Oritech Systems Pvt. Ltd. 406180 **Bombay (022)** Lipi Data Systems 2026860 Fx: 2873314 **Calcu...** Comp-U-Graphics 4756768 ■Rahul Commerce (P) Ltd. 4408926 Fx: 4408935 **Chandigarh (0172)** Alsun Systems. 706175 **Coimbatore (0422)** Transmatic Systems Ltd. **Guwahati (0361)** S.M.Computer Consultants 522156 Fx: 520348 **Hyderabad (040)** AMI Sanag Micromation Ltd. 240499 Fx: 238421 **Jaipur (0141)** Rajasthan Elec... Instruments Ltd. 312738 Fx: 312701 **Kanpur (0512)** Quark Computers Pvt. Ltd. 217598 Fx: 548576 **Kolhapur (0231)** Print Aid Centre (Pune) Pvt.Ltd. 672149 **Madra...** Quark Computers Pvt. Ltd. 611641 Fx: 6413879 ■ Transmatic Systems Ltd. 4990544 **Madurai (0452)** Transmatic Systems Ltd. 27358 **Nagpur (0712)** Vibha Enterprises ... Fx: 526087 **Nasik (0253)** Thinking Machines 74737 Fx: 78902 **New Delhi (011)** Alsun Systems 6473306 Fx: 6438780 ■ C-three-i Systems Pvt.Ltd. 6821533 Fx: 684... **(0212)** Priya Informatics Pvt Ltd.449297 ■ CyberSpace Systems & Solutions Pvt.Ltd. 657342 Fx: 657342 **Raipur (0771)** Priyanka Computer Services 535817 Fx:... **Trivandrum (0471)** Transmatic Systems Ltd. 433805 Fx: 432465 **●●● BHUTAN, Thimpu (009752)** Centre for Computer Application 22789 Fx: 22716 **NEPAL, Kath...** **(009771)** Integrated Computer & Information Services 410126 Fx: 411642 **SINGAPORE (0065)** Bharat Kapur 4684167 Fx: 4673797 **U.K., Huddersfield (0044484...** Languages Services 689494 Fx: 689594 U.S.A., **New York (001718)** India Typeface Co. 8534830 Fx: 8534830

CC-0. In Public Domain. GSINGAPORE Collection. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BUY * SELL * LEASE * HIRE

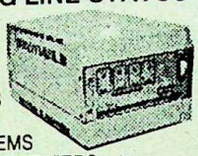
MICROMART

CLASSIFIED

FIRST OF ITS KIND IN INDIA

AEROVOX CVT

WITH INCOMING LINE STATUS



FOR -
- COMPUTERS
- FAX MACHINES
- TELEX MACHINES
- EPABX SYSTEMS
- CABLE T.V. SYSTEMS
- ELECTRONIC TYPEWRITERS etc.

PH : 6916394

AEROVOX
A-17, DDA COMPLEX OKHLA IND. AREA, PH-II, N.D.-20

Good bye CVT

Welcome SPC

EVERON

Presents

STATIC POWER CONDITIONER

- Compact & Light Weight
- Silent & Cool Operation
- Generator Friendly
- Efficient & Low Cost

EVERON SALES & SERVICES
Everon House, 551A, Chirag Delhi, New Delhi-110017
Ph.: 6221525, Fax: 6479426

Wanted Dealers

ALL ASTROLOGY SOFTWARES UNDER ONE ROOF

1. ASTROLOGY-TAMIL	RS. 750/-
2. MATCHING-TAMIL	RS. 750/-
3. NUMEROLOGY-(WITH NAME CHECKING)	RS. 750/-
4. ASTRO-ENG-K.P.SYSTEM	RS. 750/-
5. ASTRO-ENG-NORTH STYLE	RS. 750/-
6. ASTROLORY-ENGLISH	RS. 2500/-
7. ASTROLORY-HINDI	RS. 2500/-
8. ASTROLORY-GUJARATHI	RS. 2500/-
9. ASTROLORY-ENG-HINDI	RS. 2500/-
10. ASTROLORY-ENG-GUJARATHI	RS. 4000/-
11. ASTROLORY-ENG-HINDI-GUJARATHI	RS. 5000/-

NOTE: 4 & 5 CALCULATION ONLY.
6 TO 11 (INCLUDES FULL CALCULATION, GENERAL PREDICTIONS, VARSHAPAL - YEARLY PREDICTIONS, WITH K.P. SYSTEM OPTION, NORTH STYLE OPTION AND MATCH MAKING.)

SEND DEMAND DRAFT FAVOURING R. L. SRENIVASAN PAYABLE AT TIRUCHIRAPALLI.

SATHYA SAI SOFTWARES.
PB. NO. 217, WORAIYUR, TRICHY-620 003, TAMIL NADU.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

IT ASIA '95

The show grows bigger with increased participation, more product launches and a lot of hype

Lucky draws, gimmicks, huge stalls, special offers and lots of plastic bags. To the casual visitor, this could sum up Delhi's annual IT blitz of 1995.

The exhibition held at New Delhi's Pragati Maidan grows bigger every year, and this year it occupied more than double the area covered in 1994.

According to a MAIT official almost 350,000 visitors attended IT Asia this year, and with the show being promoted as the largest in Asia, it has become an important platform for image building and publicity. And the participating companies definitely went all out with their crowd-pulling tactics.

If you attended, you were probably greeted at the gates by elephants with huge banners on their backs. A walk from the gates to the exhibition halls landed you up with enough literature and plastic bags to last a lifetime. Another interesting trend seen this year was the spate of lucky draws and special offers. Several companies including Vintron, SGI and Apple organized lucky draws and gave away freebies. Not to be outdone, the Vintron Ritcomp pavilion organized a magic show.

The IT Asia Awards

The displays were excellent, and innovative. The Silicon Graphics exhibit, the "most talked about stall", was split into six mini-theaters. The theaters focused on each of SGI's application areas like education and research, film and entertainment, chemistry and medical imaging etc. The representatives added color to the stall with their "bandit-like" costumes.

Apple Computers' *Sur-Taal* won the award for the "Best Pavilion". Covering a massive area of 600 sq mtrs, the pavilion had the entire range of Apple products on display. You could tinker around with the Performas, or try your hand at the newest PowerBooks. The latest Apple displays and LaserWriter printers were also displayed. A whole section of the pavilion was devoted to Apple's multimedia products and DTP solutions.

Vendors of Mac software were also b... under the same stall. Calcutta-... Zedd Software were showing Infin... accounting package for the Mac pr... Rs 13,500 (with the inventory m... and Rs 9,500 without it.

The "Best Stall" award went to ... (Dataline and Research Techno... Limited) whose stall was based o... CyberCafe concept. On show were ... database products—IDSS, Script... Metastock and others. Plus there ... demos of India Online—a rec... launched online information re... service and DaRT Mail.

Software

IT Asia this year saw quite a ... software launches. ALIT (Ashok Le... Information Technologies) rele... HumanTouch, a package for hu... resource management priced ... approximately Rs 25,000 for a s... user version.

Birla Horizons, the recently setup ... venture between the Birla group ... Computer Horizons of US, was offe... Signature/2000, an integrated so... for the year 2000 problem.

Datapro unveiled a bio-data se...

Modi Olivetti's OSFA (Open Systems Financial Architecture) provides a range of solutions for banks and financial institutions.

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

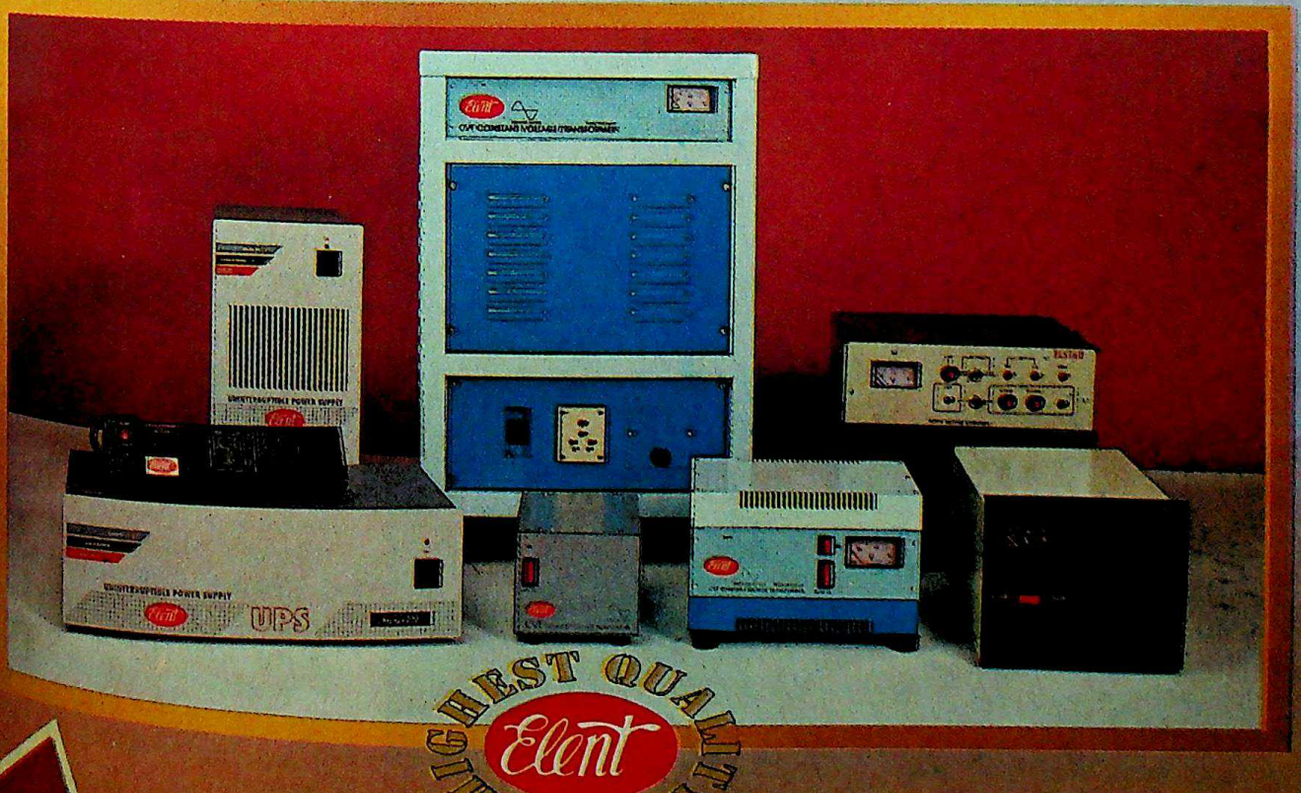
Elent Quality is approved...

...by thousands of users of Elent.
And that's the only approval we need.
(Besides the final approval of
Elent's QC department after a series of gruelling tests)

And as a buyer, that's the only guarantee
you should rely upon. Because the real test
of a product is its performance at the user's end.

That's where Elent Products excel.
And that's why we got the highest
rating for Quality in the
User's Perception Survey conducted by
PC Magazine published in Sep. '95 issue.

If you want to be sure of Quality in
Power Conditioning products, remember to ask for Elent.



HIGHEST QUALITY
Elent

ELECTRONIC ENTERPRISES
67 DSIDC Complex, Okhla Phase I, New Delhi 110020
Ph.: 6810515, 6818608 Fax : 91-11-6818608 Grams : STABELENT

CC-0. In Public Domain. Sarmukh Kaur Collection, Chandigarh

Digitized by Arya Samaj Foundation Chennai and eGangotri

called Cyberascent on its e-mail service. To use this service, you need to fill-up structured bio-data forms with details of individuals. These would then be matched to similarly structured manpower requisition forms received from companies and delivered to corporate clients within 72 hours. The organization would have to pay Rs 500 for each matched resume supplied to them.

Datapro also came out with Xee-MANAGER, an e-mail client software with document management features like OLE, OCR, LAN mail and text search.

ITC launched Hotelier 1.1, a scalable, Windows-based solution for hotels and resorts. A single-user version of the package is priced at Rs 60,000.

Optima Software Services were displaying among other software, Laplink for Windows, a remote control

Lee & Nee Software displayed the new Paragon Page 630 scanner from Mustek—an A4 size, grayscale full page scanner with OCR and file management software.

file transfer so (reviewed elsewhere issue).

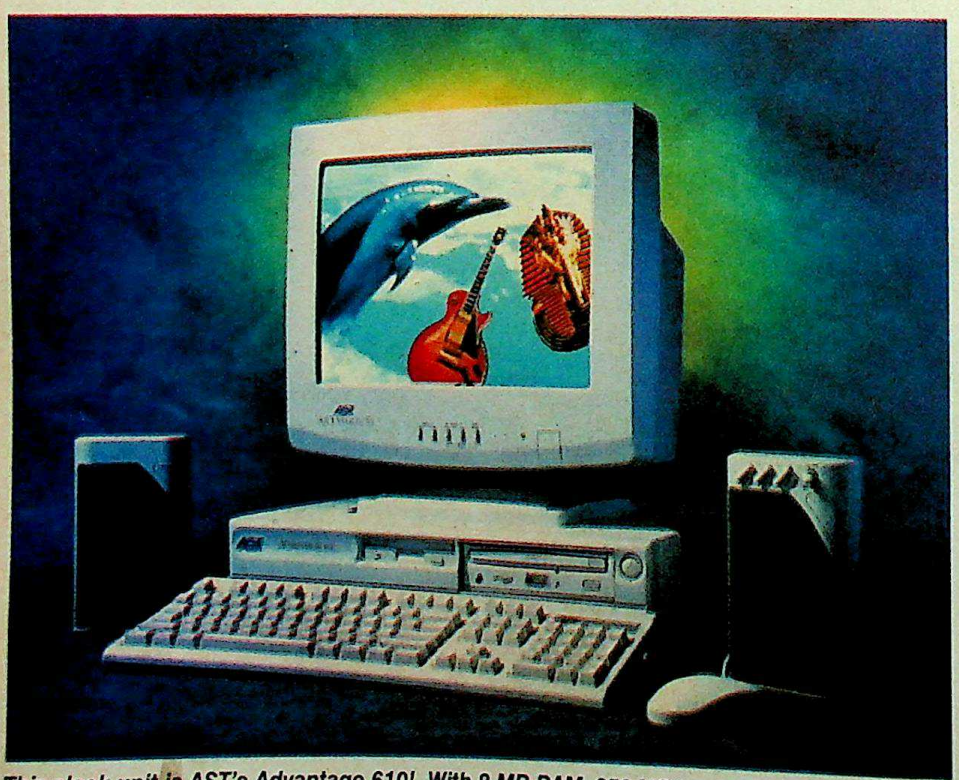
Madras-based Pe Software and E displayed a number ROM edutainment t children.

Unistal Sy launched the Unist virus at IT Asi Computing releas upgrade to its DOS anti-virus. Vx2000 is available for Rs 2

Another new lau made by Inters partnership with NII they introduced th Virtual Data Ware Technology. Data housing involves co a variety of tech vendors' products integrated solution user access to co databases. Inte DataDirect series o and-play" compone a scalable solution warehousing. DataDirect comp include Data SmartData for data access for bus SequeLink for server-based data ODBC Drivers for popular da and Explorer—an integrated query and reporting tool. NIIT client-server apps suite cal Powersoft Portfolio—StarDe PowerBuilder Desktop and Wat Server (three-user version) was Rs 15,000.

To keep pace with NIIT, Apte out with the J3 Learning series Another outstation participant Calcutta-based Lee & Nee (Exports) which distributes a software in India including Jeff (a forms solution for automati based forms processing), Wand remote access solution for PCs, d by Funk Software, USA), Proxy (a based remote control program-Re and VidCall, a video confe solution.

Svam introduced Statistica, a for statistical data analysis, grap database management.



This sleek unit is AST's Advantage 610!. With 8 MB RAM, 850 MB hard drive, quad-speed CD-ROM drive, 14.4 kbps fax modem, and telephony features like an answering machine, voice mail and caller ID capability, this high-end machine comes close to being the perfect multimedia home PC. The software includes AST Works II, Win 95, Novell's PerfectWorks, Encarta, Golf, Cinemania and The Mayo Family Health Book. The Advantage 610! is priced at Rs 99,999.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

STATISTICA

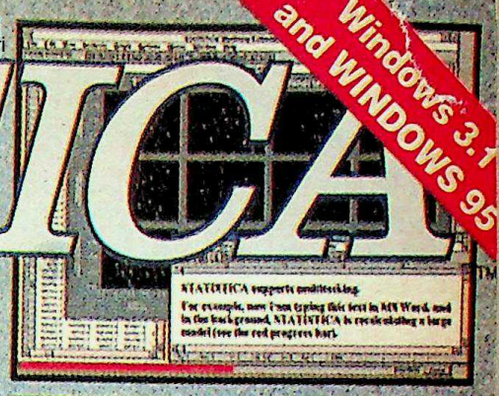
Windows 3.1 and WINDOWS 95

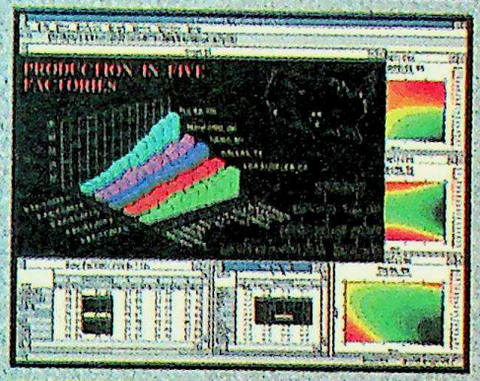
STICA™ (automatically configures itself for Windows 3.1 or 95) ■ A complete data analysis system with thousands of on- stomizable, presentation-quality graphs fully integrated with all ■ Comprehensive *Windows*™ support, OLE (client and server), nomizable *Auto Task* toolbars, pop-up menus ■ Multiple data-, ed graph-windows with *data-graph* links ■ The largest selection and graphs in a single system; comprehensive implementations tory techniques with advanced brushing; multi-way tables with resentation-quality reports); nonparametrics; distribution fit- ple regression; general nonlinear estimation; stepwise logit/pro- d ANCOVA/MANCOVA; stepwise discriminant analysis; log-linear nfirmatory/exploratory factor analysis; cluster analysis; multidi- scaling; canonical correlation; item analysis/reliability; survival large selection of time series modeling/forecasting techniques; equation modeling with *Monte Carlo* simulations; and much line *Electronic Manual* with comprehensive introductions to ture and examples ■ Hypertext-based Stats Advisor expert sys- kbooks with multiple *AutoOpen* documents (e.g., graphs, Extensive data management facilities (fast spreadsheet of unlim- ity with long formulas, *Drag-and-Drop, AutoFill, Auto-* e, split-screen/variable-speed scrolling, advanced Clipboard DE links, hot links to graphs, relational merge, data verifica- ge) ■ Powerful *STATISTICA BASIC* language (professional devel- ironment) with matrix operations, full graphics support, and external programs (*DLLs*) ■ Batch command language and acros, flexible "turn-key" and automation options, custom- rocedures can be added to floating *Auto Task* toolbars ■ All ayed in Scrollsheets™ (dynamic, customizable, presentation- es with instant 2D, 3D, and multiple graphs) or word proces- port editor (of unlimited capacity) that combines text and tremely large analysis designs (e.g., correlation matrices up to 000, unlimited ANOVA designs) ■ Megafile Manager with up to ables (8 Mb) per record ■ Unlimited size of files; extended ") precision; unmatched speed ■ Exchanges data and graphs applications via DDE, OLE, or an extensive selection of file rt facilities (incl. *ODBC* access to virtually all data bases and files) ■ Hundreds of types of graphs, incl. categorized multiple graphs, ternary 2D/3D graphs, matrix plots, icons, and unique (e.g., 4D) graphs ■ Facilities to custom-design new graph d them permanently to menus or toolbars ■ On-screen graph n with advanced drawing tools (e.g., scrolling and editing of ects in 32x real zoom mode), compound (nested) OLE docu- *ple-Graph AutoLayout Wizard*, templates, special effects, ayout control for slides and printouts; unmatched speed of ■ Interactive rotation, perspective and cross-sections of 3D rge selection of tools for graphical exploration of data: exten- tools with animation, fitting, smoothing, overlaying, spectral ections, layered compressions, marked subsets.

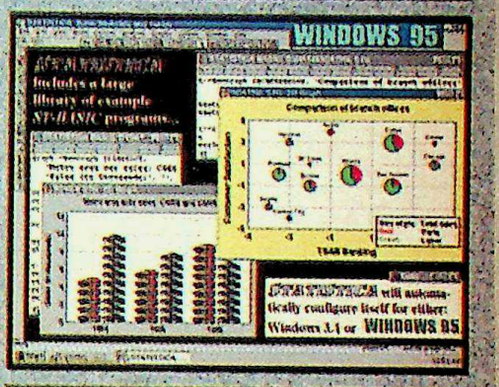
TATISTICA (for Windows) ■ A subset of *STATISTICA*; e selection of basic statistics and the full analytic and presen- graphics capabilities of *STATISTICA*.

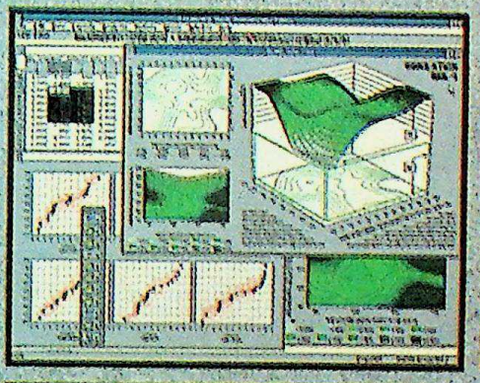
TICA/QC - *Industrial statistics add-on package* (requires r Quick *STATISTICA* for Windows) ■ The largest selection of istics in a single package; quality control charts (compatible e data acquisition systems), process capability analysis, R&R, s, and an extremely comprehensive selection of experimental g) methods ■ Flexible tools to customize and automate all reports (incl. "turn-key" system options, and tools to add edures).

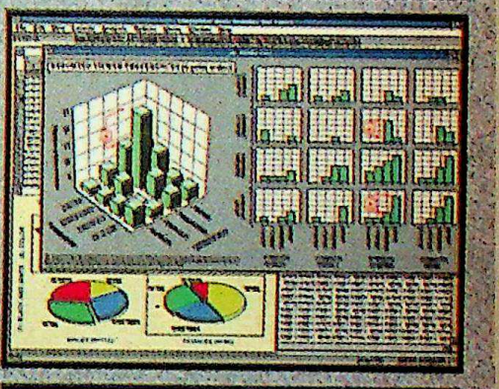
TICA/Mac (for Macintosh) ■ also available.

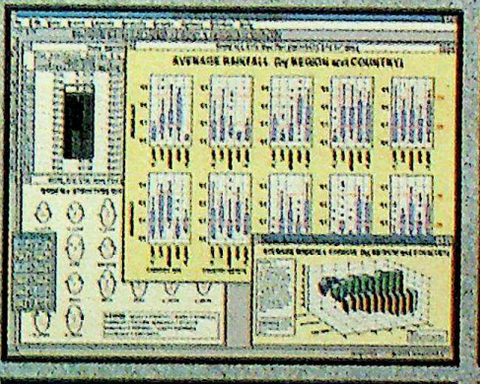


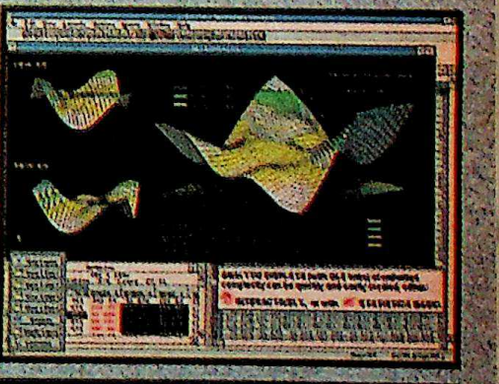


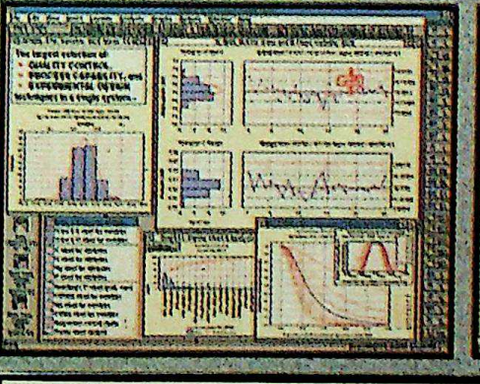


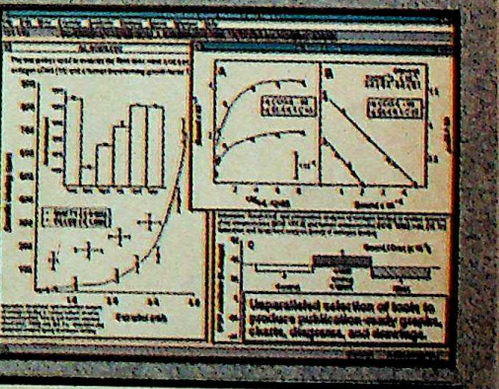












StatSoft®

RIBUTORS IN INDIA

SOFTWARE LIMITED

NEW DELHI : 70, Janpath, New Delhi-110 001. Ph. # 011-3731844-45
3320224, 3324551, 3326313 Fax # 011-3723266
BANGALORE : 84/2, S.T. House, IInd Floor, Richmond Road,
Bangalore-560 025 Ph. # 080-2240396 Fax : # 080-2240397
BOMBAY : 104, Adarsh, 1st Floor, 86, Main S.V. Road, Santa Cruz (West)
Bombay-400 054 Ph. # 022-6462053 Fax # 022-6487845
CALCUTTA : Flat No. 306, B-Block, Mansarovar Building 3B,
Sarat Bhavan, Calcutta - 700 016 Ph. # 033-292260 Fax # 033 2429044

RESPONSE COUPON

Name .....
Designation .....
Organisation .....
Address .....
.....
Phone( ) ..... Fax( ) .....

Yes, I am interested in knowing more about how I can use any of the Statistica products given below. Please tick:

☐ Statistica for Windows ☐ Statistica/Quick
☐ Statistica Windows 95 ☐ Statistica/QC

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Multimedia

The PC industry is going through a multimedia wave, and there was ample evidence of this at IT Asia. Most software vendors were cashing in on the multimedia hype with an assortment of CD titles. Delhi-based ABI Books did brisk business on its Walnut Creek range of CD-ROMs. They were also offering CD-ROM drives, CD-Recorders, and multimedia kits.

Padmini Polymers in association with Unitech Arts came out with Karishma—an educative CD title on India, priced at Rs 3,900.

Tangerine has tied up with Iona software and was distributing Iona's range of multimedia titles. Priced at Rs 950 and above, the packages are targeted at children in the 5-13 year age group.

A huge range of multimedia products were displayed by ACS Computers in the Singapore Pavilion. There were multimedia kits, CD-ROM drives, magneto-optical disk drives, CD recordable systems and more. NIIT launched three new CBTs on PowerBuilder, Lotus Notes and Oracle Forms under its range of Vista multimedia products.

The Creative Technologies set-up was a hit. Demos of multimedia accessories like plug-and-play sound systems, Sound Blaster speakers and video cards attracted huge crowds. The latest addition to their range is the Movie Wave—an MPEG board for full-motion video (AVI) capture and playback on the same board with a built-in real-time 3D sound processor priced at Rs 25,400. Another hot favorite was the Sound Blaster AWE32 Home Studio. The pack includes a 49-key, velocity sensitive keyboard, a Sound Blaster AWE32 card, an RCA audio cable, and a bundle of audio and music software.

A rugged 800 lines per minute line printer from Mannesm

Networking

The Santa Cruz Operations partici- pated in a big way with their r range of networking products. other products was PC-Connect, a server terminal emulation softw Windows.

Another major player in this c was the international networkin 3Com. It was displaying its entir of Enterprise-wide fast Ethernet p including adapters, stackable switches and routers.

Cisco Systems, Cabletron, Novell and SCO had also put up big stalls.

Tulip Software also had a big displaying state-of-art net solutions.

Digital India's NT Dream Machine. The Intel-based models will have 100, 120, and 133 MHz and dual 100 and 133 MHz Pentium processors. Alpha-based models include the 233 MHz and 266 MHz versions of the Alpha 21064 processor. The systems run more than 1,200 native Windows NT apps on Alpha. They're targeted at the scientific and commercial computing markets.

Power Conditioning

APC launched new plug- Back UPS Pro models. The B models 280, 420 and 650 combi version of APC's PowerChute Pro and are fully compatible with 95.

Tata Liebert launched th UPSes. The AccuPower Gold first rack mount/tower online introduced in India; the AP210

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MORPH™ 2.5

al Effects Software for the Desktop

MACUSER EDITORS' CHOICE AWARD 1992 FINALIST

Four Mice - MacWorld Magazine Review

CODIES 1993 EXCELLENCE IN SOFTWARE AWARDS

Best Personal Creaivity Software

CODIES 1993 EXCELLENCE IN SOFTWARE AWARDS

Best Business Application Graphic or Display

FINALIST

1992

AWARD OF DISTINCTION

TRANSFORM YOURSELF

Morphing - you've seen the results on television and in the movies and recently on the front cover of magazines. It looks like magic, but it's magic you can perform yourself, using Gryphon's Morph 2.5 for Macintosh and Windows, the same software the professionals use.

WHEN IT'S ALL FINISHED

Once you've created your Morph movies, Morph provides you with a number of options to help display your animations. In addition to playing your Morph movie on your computer in QuickTime, AVI, FLC or FLI animations, you can turn your movie into a screen saver or you can print any transformation as a flip book.

MORPH MADE EASY

This special effect may look hard, but it's not. And now with Morph's new Curve tool the program is even easier. Instead of using numerous points to control your morph, simply add lines and then reshape them into curves. If Morph becomes any easier to use the images will transform themselves.

FAMILIAR FRIEND

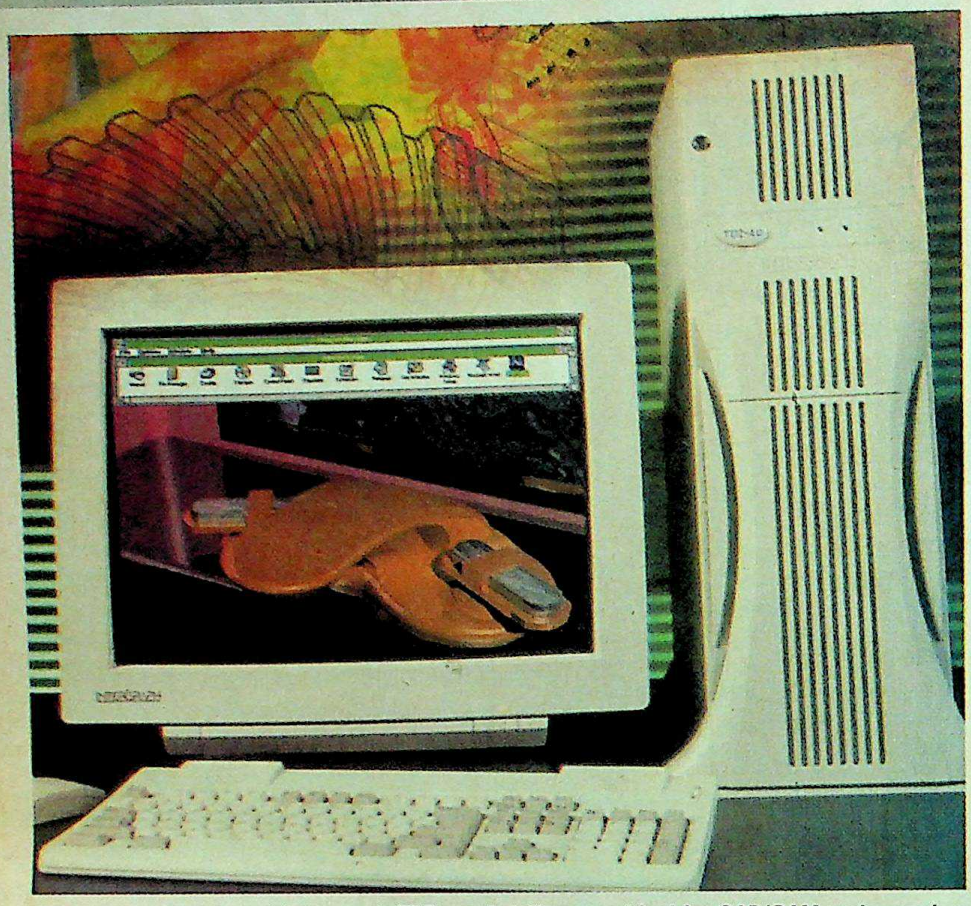
Morph is the original, award-winning software that has received a number of accolades and adorned the front cover of Time Magazine twice. It is the same program used by video professionals for Hollywood special effects, such as Bram Stoker's Dracula, Robin Hood Men in Tights, Crest and Time magazine commercials. The program has also been embraced by archeologists, biologists, The Center For Missing Children and educators. But you too can create morphs at home by just digitizing your own pictures or use the ones we provide with the program.

place an order, call us at

SVAM SOFTWARE LTD.

DISTRIBUTORS IN INDIA
SVAM SOFTWARE LTD.
Delhi : 70, Janpath, New Delhi-110 001. Ph. # 011-3731844-45
224-3324551 3326313 Fax # 011-3723268
ORE : 8402, S.T. House, IInd Floor, Richmond Road,
-560 025 Ph. # 080-2240396 Fax : # 080-2240397
Y : 104, Adarsh, 1st Floor, 88, Main S.V. Road, Santa Cruz
bay-400 054 Ph. # 022-6462053 Fax # 022-6487845
TA : Flat No. 306, B-Block, Mansarover Building 3B,
Road, Calcutta-700 016 Ph. # 033-292260 Fax # 033 2429044

Digitized by Arya Samaj Foundation Chennai and eGangotri



The Pentium Pro-based Intergraph TDZ workstations are ideal for CAD/CAM and mapping apps.

online 1-phase in and 1-phase out UPS; and the AP 4310, a 10 kVA, 3-phase in and 3-phase out model. Also on show was a range of UPSes from TrippLite and other vendors.

PCs

AST Computer, the internationally popular PC maker, has come to India and was an active participant at the show. A highlight of their display was the AST Advantage, a multimedia PC, based on the Cyrix 5x86/75 MHz processor. AST will be selling through its chain of over 50 resellers including TUL, Tangerine, PCS, CMS and AMD.

Digital India announced the launch of the NT Dream Machines—a range of Intel and Alpha-based NT systems. They also debuted the AlphaStudio range of post-production systems. Based on the 64-bit Alpha processors, the systems are targeted at studios and post-production houses that need to render complex animation.

Rolta India in partnership with Intergraph introduced the Intergraph TDZ workstations. Based on the Pentium Pro, the TDZ can be scaled up to four multiprocessors, Intergraphs' GLZ graphics accelerators, error correction code features and RAID technology. A fast SCSI II controller, PCMCIA slots and multilevel security make it suitable for CAD/CAM, mapping and high-end engineering apps.

Wipro's trump card this year was the sleek-looking Aspire. To be available from March 1996, the Aspire is an emerald colored PC that looks more like a part of the home furniture. It is manufactured by Acer Corp of USA and marketed in India by Wipro Systems. It has multimedia features like stereo speakers and front-panel volume control. Plus there's integrated fax facility, curved wrist rest, an ergonomic keyboard and mouse.

CG Informatique was showing Compaq desktops, network servers and networking equipment including Lannet modular hubs, RND routers & bridges and AT&T Paradyne modems.

Peripherals

Lipi Data Systems announced MT661 a heavy-duty line matrix printer from Mannesmann Tally designed for high workload apps like pass book printing. In addition, they also unveiled a Typhoon laser printer and a travel documents printer.

Vertex launched a range of Genius brand products including the
My Mouse and Genius TV Wond
add-on card that lets you view TV
programs on your PC, priced
13,000.

TVS Electronics launched
5650, a flatbed serial dot matrix
ideal for printing on pass books,
and other pre-fabricated station

Canon Network Ltd had on s
recently launched BJC-70 and
bubble jet printers.

Modi Olivetti launched a new
customer interface systems ca
Multikiosk 2000. Targeted at
markets like banking, insurance,
and tourism etc, the Kiosks will
multimedia capabilities including
screen facilities for presenting
details to customers and let them
through catalogs and other
addition, they unveiled the JP
bubble ink-jet printer for the
segment.

Business India's first CD-RO
launched at the IT Asia '95. Th
edition contains all 26 issues of B
India released in 1995. The CD is
on super sections, sections and
You can also carry out free text se
All personal, corporate and place
have also been indexed sepa
Various numerical analysis a
options let you access and ana
available stock exchange data.

The Vision Seminars

The venue of the seminars
was shifted to Hotel Maurya She
accommodate a larger audience.
themes for the seminars were
solutions (in manufacturing and
& finance) and technology (ha
software and communications
keynote address was delivered
Research Chairman, Safi Qures
30 other international personalities
on future trends in IT.

For the first time, MAIT o
Direct Talks in which companie
presentations on their new prod
services.

With MAIT's meticulous arra
and promotions, the vendor part
is continuously increasing, an
rate, IT Asia seems truly on it
becoming Asia's answer to Com

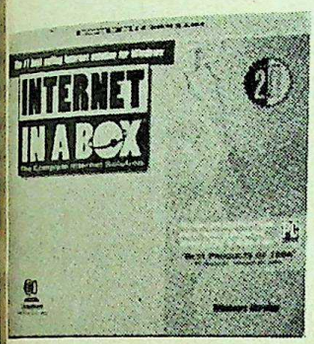
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Internet In A Box™

The Best-Selling Internet Solution

Internet In A Box is brought to you by SPRY, the proven leader in network connectivity and the leading source of software solutions for the Internet.



"For those who need the very best tools to connect to the Internet, Internet In A Box is the box to buy"

PC MAGAZINE

"Best Products of 1994"
PC Magazine - January 10, 1995

Voted the best product of 1994 by PC Magazine and the #1 Best-selling Internet Solution for Windows, Internet In A Box provides you easy and fast access to a treasure chest of information that can be received, manipulated and sent anywhere.

So, now you have the essential tools you would need to make browsing on the Net both productive as well as easy. At a cost that's much lesser than other conventional options.

Total Control at your fingertips

Powerful and intuitive, Internet In A Box software is loaded with 50 rich features that include:

SPRY Mosaic- the world's most advanced version of the popular WWW browser. For progressive image rendering, faster and reliable performance and safe and secure on-line shopping

SPRY Mail- that supports spell- checker (through MS Office) and offers the facilities to attach and send files over the Internet and read and compose mail without any connection charges whatsoever

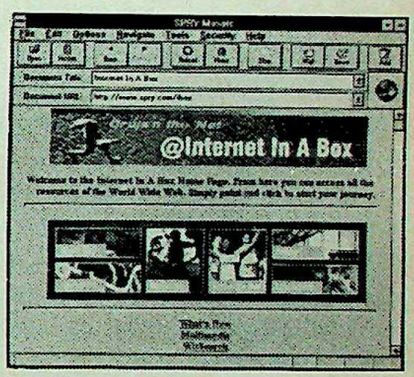
SPRY News- The best Windows News Reader around, it provides access to multimedia resources and permits the search- by- keyword technique to get the information you need

SPRY Gopher- The search and retrieval application for easy navigation and quick access

SPRY Telnet- that enables you to access remote Unix hosts

SPRY Dialer- Dial-on-Demand Windows Dialer that automatically starts your connection and supports more than 450 high-speed modems.

Together providing your organisation the requisites to increase productivity, reduce costs and communicate more effectively.



Dealer inquiries solicited

INTERNET IN A BOX
The Complete Internet Solution

CompuServe
SPRY/Internet Division

Crest/97/INT-6

integra

Integra Micro Systems (P) Ltd.
G5, Swiss Complex, 33,Race Course Road, Bangalore 560 001.
Tel : 91-80-2250073, 2257027 Fax : 91-80-2203928 E-mail : imail400.ncn@integra.sprintrpg.sprint.com
Bombay - Tel : 8344687, 8347207 Fax: 022-8741490 **New Delhi** - Tel : 6882259 Fax : 6874472

is the country-wide distributor for SPRY Internet products.

All Brand Names, Product Names and Registered Trademarks are the property of their respective owners

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

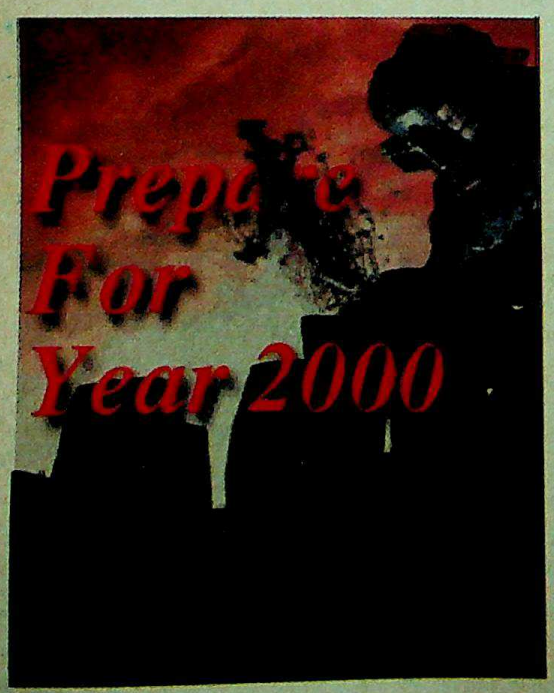
The Year 2000 Problem

Just 48 months from now, millions of computer applications will probably go haywire. Led by the most critical commercial and banking apps, especially those on large systems. Over 95 percent of present-day personal computers will also be affected.

The **Y2K** problem is this: most computers, and the billions of lines of legacy code running on them, handle the date as a two-digit figure. When the year 99 becomes the year 00, a lot of apps that depend on the date for critical processes will get very confused. This includes everything from tiny PC financial apps to wide-area transaction systems, to fighter aircraft friend-or-foe signalling.

Should you panic? Here are 50 good reasons for you not to worry about the problem. Only if *none* of these apply to you, turn to **page 109**, or connect to Web URL http://www.year2000.com, for a more serious look at the Y2K problem.

From the Year 2000 Home Page on the Internet (http://www.year2000.com) maintained by Peter de Jager <pdejager@year2000.com>.



What, Me Worry?

50 reasons to ignore the Y2K problem

You're not working on the Year 2000 date problem because...

- You're already in Chapter 11.
- You're 95, on life support and haven't paid your phone bill for the last 3 months.
- You're planning to retire in 1997.
- You're not using computers yet, you're waiting for the prices to come down.
- It's someone else's problem.
- Someone smarter than you will come up with an automated solution.
- You believe in the Tooth Fairy.
- Your standards (found in a large red binder in the IS library) outline that 2-digit dates should be used in all applications.
- You only use vendor software.
- You lost all your source code 3 years ago.
- You just don't have the time right now: "Ask me again next year when things slow down."
- You don't believe in computers.
- You're moving your mission critical systems to client-server systems.
- You'll have replaced your applications by then.
- You don't have the budget.
- You're too busy writing new apps (which can't handle the year 2000 either.)
- You're planning to sell your company next year.
- The first of January, 2000, falls on a Saturday and Monday is a holiday...you'll have lots of time over the weekend.
- You were planning to phase out computers anyway.
- You can't believe two missing digits can cause that much trouble.
- You don't thinks it's such a big deal... but you'll have a programmer on call with a pager just in case anything goes wrong.
- You're planning a vacation that week.
- There are no date problems in your code (you have faith in your programmers).
- You have no programmers (your competition hired them away from you last week.)
- You can't afford the cost of maintenance (but don't mind the cost of going out of business.)
- You don't like large maintenance projects.
- *What* date problem?
- Nostradamus never mentioned this problem.
- You're a disgruntled employee.
- Computers have no impact on your life.
- You like the excitement of system crashes.
- Your megacorp doesn't really depend on computers.
- You can hire enough people to replace computers as they fail, and have some money too.
- You believe in the sanctity of all life...even computer bugs.
- You want to surprise your stockholders.

CC-0. In Public Domain. Kurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

MANAGING EDITOR	SHYAM MALHOTRA
EDITOR	PRASANTO KUMAR ROY
ASSISTANT EDITOR	R GIRIDHAR
SUB-EDITOR	ASAWARI KETKAR
REVIEWS ASSISTANT	MOHAN SINGH BIST
CONTRIBUTING EDITORS	ATUL CHITNIS
	GAUTAMA AHUJA
	VIJAINDER K THAKUR
BUSINESS MANAGER	VENAYAK BHATNAGAR
CIRCULATION & COORDINATION MGR	ASHOK GUPTA
AD COORDINATOR	SHAJI GEORGE
CIRCULATION COORDINATOR	RAJINDER
ACCOUNTS MANAGER	MADAN M SINGH
SR COMMERCIAL EXECUTIVE	ANIL KUMAR BHATIA
DESIGN & PROD MGR	ARUN SHANKAR
JR DESIGNER	REMA MARAR
JR DESIGNER	PAL SINGH
ASST MANAGER DTP	T SRIRENGAN
SR DTP OPERATOR	DIGAMBER PRASAD
DTP OPERATOR	JOSE PM
DTP OPERATOR	ALOK KUMAR SHARMA
SR PRESS EXECUTIVE	VIJAY NAGRATH
PRESS EXECUTIVE	KS THOMAS
BANGALORE	
GENERAL MANAGER (SOUTH)	E ABRAHAM MATHEW
REVIEWS COORDINATOR	BALAJI N
ASST MGR ADVERTISEMENTS	SRINIVAS AGNIHOTRI
BOMBAY	
REGIONAL MGR (WEST)	HOSHIEDIAR GHASWALLA
ASST MGR ADVERTISEMENTS	SUDHIR VALVARA
MARKETING EXECUTIVE	RUPA L NATHANI
CALCUTTA	
BUREAU MANAGER	PARTHA P BANERJEE
SR BUREAU COORDINATOR	SUJATHA KRISHNAMURTHI
DELHI	
ASST REGIONAL MANAGER (NORTH)	T N PRABHU
REVIEWS COORDINATOR	MEGHNA RELAN
SR MARKETING EXECUTIVE	YOGESH WADHWA
HYDERABAD	
SR MARKETING EXECUTIVE	KRISHNA RAO
MARKETING EXECUTIVE	S SUBHA
MADRAS	
ASST BUREAU MANAGER	ANIL KUMAR R

HEAD OFFICE
D-74 PANCHSHEEL ENCLAVE, NEW DELHI 110017. ✆ 6433999, 6435999, 6413938 FAX: 11-6475765.

BUSINESS OFFICE
D-14 PANCHSHEEL ENCALVE, NEW DELHI 110017. ✆ 6433999, 6435999, 6413938. FAX: 11-6475765.

BUREAU OFFICES
401 4TH FLOOR, MBC, 134 INFANTRY ROAD, **BANGALORE** 560001. ✆ 5511511, 5568238. FAX: 80-5562971.
2 JAIN CHAMBERS, 577 S V ROAD, BANDRA, **BOMBAY** 400050. ✆ 6427910, 6450050, 6450051. FAX: 22-6403986.
SOURYA'S BUSINESS CENTER, GND FLOOR, 233/3 AJC BOSE ROAD, **CALCUTTA** 700020. ✆ 2471285.
508 MEGHDOOT, 94 NEHRU PLACE, **NEW DELHI** 110019. ✆ 6418315, 6411692. FAX: 11-6476664.
ROOM NO.12, 5TH FLOOR SRINATH COMMERCIAL COMPLEX, S D ROAD, **SECUNDERABAD** 500003. ✆ 848121. TLX: 0425-6105 ERA IN. FAX: 41-816960.
VII FLOOR GUNA BUILDINGS, 304/305, MOUNT ROAD, TEYNAMPET, **MADRAS** 600018. ✆ 459498. FAX: 44-8252828.

■ Published by Pradeep Gupta on behalf of Cyber Media (India) Ltd, 810 Meghdoot, 94 Nehru Place, New Delhi 110019. ✆ 6418315 TLX: 031-71344 INDQ. and printed by him at Sahara India Mass Communications, C-2, Sector 11, NOIDA 201301.
■ Annual subscription:
Inland: Rs 240 (1 Year) Rs 450 (2 Years) 630 (3 Years). (Add Rs 15 for outstation cheques).
Foreign: US$ 60 (airmail).
All payments favoring: CYBER MEDIA (INDIA) LTD.
■ Distributors in India: Mirchandani & Co, Bombay.
All rights reserved. No part of this publication may be reproduced by any means without prior written permission.
■ PCQ is not responsible for unsolicited manuscripts.
PCQ Online: 011-8221734 [Modem: 14,400 bps, N81]
Internet: pcq@pobox.com
Cover Design: Media Workshop
Color Pre-Press by Laserpoint, New Delhi

LEADING EDGE

PRASANTO K ROY

Why Governments Make Poor Netwatchers

In December, Compuserve blocked its 4 million subscribers from 251 Usenet newsgroups with sexually-explicit material. Apparently at the request of German authorities.

The German chief prosecutor promptly denied this on January 2. Shortly afterward, CompuServe said that it acted on its own, to comply with German morality and law. And that it intended to limit the blockage, with new technology for geographically-defined restrictions. Five hours later Compuserve denied that, too...

Should the Net be censored? Or monitored? Or gently directed? Should VSNL or any other service provider be given the mandate of regulating which URL you can type in, sitting at home? Or of reporting you to a relevant authority that you've typed "http://www.sex.com"?

Or—should children be allowed free access to CINDY.GIF and the Brownsugar FAQ? And Candyman be allowed to advertise how to blow up the White House, assemble a fusion device, or knock off your wife? How about if *your* cellphone ID was "phreaked" out of the air and your ATM code cracked by the guy next door who read an FAQ?

This is never an easy debate.

The Internet is a digital, distributed reflection of society. If there's sex, violence and crime in real life, it's unrealistic not to expect it on the Net.

Yet the Net does makes it all too easily accessible. To kids, criminals, terrorists, crackers. The Internet is *interactive*—once you know your way about, you can pick up what you want in minutes. It's not quite as easy to get a copy of Playboy, or buy an adult CD-ROM, though a kid *could* do it.

This is a debate we're going to hear a lot about this year. A major reason is that the Net, despite all its diversity and chaos, is a force with the potential to homogenize a drastically heterogeneous world. From traditional Arab countries to India to Germany to ultra-free societies, users access essentially the same stuff on the Net. But such a homogenizing effect can rarely harmonize with regional reality.

What is clear is that no government is geared up to police the Net. Nor should that be their role. Their role *is* to implement the letter and spirit of the law, but after recognizing what is possible and what is silly to expect. So if a site hosts GIFs depicting child pornography, it's the event of child abuse that's important, not the medium. It's happened in real life. Beyond that, it's clear enough that despite legislation *and* new technology, the Net is practically beyond censorship.

In 1996 there are healthy signs that Indian vendors *and* users are *really* getting mature.

Look through computer ads today, and you'll probably find some nice things: clearer specs, and *prices*.

Vendors have begun to figure that when ads say "Bargain! Call for price...", not all that many call. Clear specs and prices give a far better idea of the product than pages of ad copy. And more users walk into showrooms with credit cards, or even send cheques through the mail.

This logic extends to "spec suppression". Not so long ago, top-notch companies would advertise "high-end servers at Rs 1.6 lakh!" and then fine print would tell you that hard disks and RAM were optional. You'll see fewer of today.

Finally, vendors are focusing their approach. So we have better products, specialized channels, and a 100,000 PCs going to SOHO and home users in the financial year that's two months away. *Finally*, computing in India isn't going to be decided just by vendors and big corporate users.

PKR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE FIRST PC

Ever since I picked up a copy of *PC Quest* from a newsstand over six months ago, I was fascinated by it. Its getup, layout, reviews of products, both hardware/software, its print and general contents are excellent. It has grown on me. I make it a point to buy it every month.

Now, I do not own a PC, I do not get to work on a PC in my office, and I'm not a computer buff. Nor have I taken any computer lessons anywhere. Yet I've learned quite a lot from your magazine. Thanks to you, now I can talk about modems, HDDs, FDDs, CPUs, BIOSs, VGAs, SVGAs and other computer-related terms, their usages, etc. I have come to know how rapidly PC speeds are changing from XTs to Pentiums, how DOS finally gives way to Windows and many many more things like programming languages and software. PCQ has helped me become somewhat computer literate.

Inspired by your book reviews, I have also bought a few basic books including Kenneth L Hughes' *Build Your Own Computer*. I find the computer world a fascinating one.

Would you inform me, if I want to buy a PC, what model I should choose now and which vendors would offer me a computer in instalments here in Calcutta? What configuration should I opt for if I require to do mathematical as well as database programs ?

Ranjan Mitra
Calcutta, WB

Thanks for your comments; it's always nice to come across non-users who rapidly graduate to power-user status, and even nicer if we helped make it happen!

The system you need should be a 486DX/2 with 8 MB of RAM and 540 MB hard drive, and a VGA mono display. That's the baseline spec today, and will give you acceptable performance for your apps—unless they are heavier Windows database apps. If you want to run Windows 95, 16 MB is recommended; if you want to use CD-ROMs or work with multimedia later, you need a CD-ROM drive, sound card and color VGA. However, you could add these later.

Incidentally, for DOS math and database apps you can get by with a 386DX/33 with 8 MB—and preferably a math coprocessor. But a 386 is best avoided today.

CNE COURSES

Last October, a reader from Bombay had written in these pages that your magazine should start a regular section on careers in information technology for students. This is a very good idea: I am a student, and such information would help me select a career.

I would like to know about the CNE course conducted by Novell. Who is eligible to appear in the CNE examination and what are the future prospects of successful candidates ? Is there a great demand for CNEs, and if yes, what are their pay scales likely to be ?

Ashish Sharma
Ahmedabad, AP

Who do I contact for taking the CNE examination without undergoing the CNE course?

Padma Kulkarni
Pune, MH

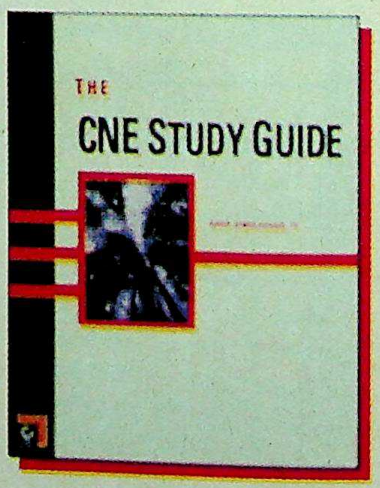
There's a lot of potential for any network consultant, with today's exploding network usage. NetWare is the largest network OS by far, so CNEs will likely continue to be in demand!

You can get the CNE study guides from Pustak Mahal or BPB Publications. For local CNE examination details Contact Onward-Novell at Krislon House, Saki Vihar Road, Saki Naka, Bombay 400072.

—Ed

ALMOST ONLINE

I was unable to upload this message in PCQO. When I press PgUp and enter the name of the file, my comms program comes up with a window showing its Z-modem file transfer details but the actual transfer never occurs and it terminates the transfer after some time. I use Telemate version 4.0 included with Alok Sinha's book on BBSes.



I want to start a BBS in Secunderabad. I have already acquired Power BBS ver 3.2. After reading Alok Sinha's book on BBSes, I want to use Super BBS because of its simplicity. I could not get Super BBS software here. Can you help me with that software along with The DRAW ANSI editor and RIP Term ?

Also I find it is impos... to download any reaso... software within 15 min... added to my connect s... of 4,800 bps to PCQO, ... you please arrange a wa... that I could at least down... the above software (S... BBS, The DRAW, RIP Te... without the restrictions o... minutes connect time ?

I have tried to co... Status BBS, but I cann... am using a USR Courier V... [S10=100, S25=... S56=128, &M4, &N0]. I... successfully conta... PCQO, Solutions, Live... Bombay and Madras ... Jabborwocky, Pune. B... could not make reli... connects beyond 4,800 ... anywhere.

Also please help me ... where to find useful d... bases (trade, educati... medical etc) that inte...

the users of a BBS ... request you to give ... useful tips on how to ... up and conduct a BBS ... that it will contin... evince interest for its u... I have read Atul Chi... article on this subje... some of PCQ's old iss... but that is genera... nature.

Can I come to Delhi ... get some hands-... training at PCQO ? I ... more interested in su... thing.

K Chandra Se...
Secunderabad

To upload files, you ... need to choose the upload c... on any BBS; in PCQO it's th... relevant forum, after which ... give the filename—and ... press PageUp Z.

The Internet is full of th... of information you're look... we also regularly publish s...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The new

Sportster Vi with personal voice mail. Guaranteed to leave the competition speechless.

You've heard a lot of modem-talk. So isn't it time you heard a modem talk? The new Sportster Vi 14,400 bps faxmodem from USRobotics with Personal Voice Mail, which accepts and digitally records your incoming voice messages.

The Vi also signals alphanumeric pagers, supports caller ID, automatically detects incoming fax calls and delivers fax on demand. Plus, with its new VoiceView protocol by Radish Communications Systems, you can actually send data during an ordinary voice call.

The Sportster Vi, like all USRobotics products, features award winning quality which has made USRobotics the largest selling modems in the world. The USRobotics range not only includes modems (external and internal), but other access products like PCMIA, network managed systems and ISDN products.

USRobotics is brought to you by Microsense – who offers and supports everything in modems, communication software and other access products.

For more details about the Sportster Vi modem or other models in the USRobotics range, do the obvious. Talk to us.

U.S.Robotics
from
MICROSENSE

ACCENT/MCPL/118/96

Microsense Computers Pvt. Ltd. • **Bombay:** 808, Embassy Centre, Nariman Point, Bombay 400 021. Tel: (022)2872948, 2831489, 2825441, 2836642. Fax: 2836643. bomaad90@giasbm01.vsnl.net.in • **Delhi:** 'Satyadeep', 3rd Floor, East of Kailash, New Delhi 110 065. Tel: (011)6410134, 6465855, 6470619-20. Fax: 6470620. DELAAB30@giasdl01.vsnl.net.in • **Madras:** 5/D, J.P. Towers, 7/2, Nugambakkam High Road, Madras 600 034. Tel: (044)8276469, 8256529, 8233080-81. Fax: 8256529. MDSAAA33@giasmd01.vsnl.net.in • **Secunderabad:** 2nd Floor, Emerald House, Sarojinidevi Road, Secunderabad 500 003. Tel: (040)845008,846266, 844781. Fax: 814021 (pp). bomaad63@giasbm01.vsnl.net.in • **Bangalore:** 209, 2nd Floor, Richmond Tower, Richmond Road, Bangalore 560025. Tel: (080)2210816, 2218037, 2273558-9. Fax: 2218037. bomaad64@giasbm01.vsnl.net.in • **Calcutta:** AD, 161, Salt Lake City, Calcutta 700064. Tel: (033)3349747. Fax: 3376290 (pp). Email:CALAAA36@giascl01.vsnl.net.in

Dealer/OEM Enquiries Welcome

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

and URLs in PCQ, together with details of how to connect. (You can take a VSNL account, and use INET to connect to it.) BBS software is available online as well as on some shareware CD-ROMs; watch out for them on future PC CD-ROM releases.

We are not, unfortunately, geared up to provide hands-on training! But you're welcome to visit PCQ and PCQ Online. We'd suggest you get in touch with any of the other BBSes closer to you, such as those in the south; their Sysops may be able to help.

—Ed

REACTIONS TO THE AUGUST CD-ROM

This is my reaction to the CD-ROM disk distributed with the August 1995 issue, which I found it very interesting and useful. I have installed PC DOS 7 on a machine and find it a very good system. I will try it out for 90 days before finally deciding on purchasing it.

However, I was interested in using the following shareware programs: CAD VANTAGE, F_PROT 2.12 c, FP_217.ZIP, GIF DESK 4.0 and GRAPHIC Work shop. There are found in the list, but I am unable to locate these files on the disk. Please let me know where they are on the disk and how to locate them.

Dr C Badrinathan
Bombay, MH

Some files had to be left out for reasons of space, but were left in that list in August. You would find a few of them (such as F-Prot) on PCQ Online, on various other BBSes, and on CD-ROMs such as the PCQ Winter 96 disk, and future PCQ CD-ROMs.

—Ed

SENDING SOFTWARE FOR REVIEW

I am a small time freelancer and a regular reader of *PC Quest*. I have developed software and would like to get my software bench-marked by you. In addition I would like to know how I could market my software and I would like addresses of potential customers for my software.

David Gowe
Madras, TN

In PCQ we review either shipping commercial software or shipping shareware, so your software has to fit into one of these categories. We suggest you contact a software vendor or exporter, for a packaging and marketing arrangement (usually under the other company's brandname); it's a difficult area to get into on your own!

—Ed

PURCHASING DIGITAL CAMERAS

I have gone through your May 1993 issue. I am interested in purchasing 50 digital still cameras immediately. I am enclosing a photostat of page 18 of your May '93 issue. Could you give me the address, telephone number and fax number of the firm selling this camera ?

Digital Infosys
Jaipur, RJ

Such digital cameras (which capure images to memory instead of film, and let you transfer them to your PC) are useful devices for quick low-res photography or for on-screen stills, for online or CD-ROM systems. However, they are neither of suitable resolution for most magazine work, nor are they serious optical devices yet—for instance, there are no SLR cameras of this type that we are aware of.

In our January issue we carried a review of the Logitech Pixtura digital camera, distributed in India by Vintron, Delhi. Such systems are also available from Apple, Canon and others, though not necessarily in India. You can contact Vintron at F 34, Okhla Industrial Area, Phase I, New Delhi 110020.

—Ed

DISK DEFECTS

I own a 486 system. Recently while working on FoxPro 2.5, when I attempted deleting files with the .TMP extension, it gave me an error message: Sector not found reading drive C.... If I chose Fail, It gave an error message: File Read Error. After this, even an attempt to quit or create a .PRG file gives the same message FILE READ ERROR. When my system is teste[d] NASHOT 16, it does not any virus. Please clarify.

B R[...]
Madur[...]

You have a small disk [...] and it happens to have [...] one of your FoxPro prog[...] overlay files. Run SCAND[...] NDD all the way and let it [...] problem. However, you m[...] the specific file corrupte[d] the messages on the scre[en] report which file it is, and re[...] it from your FoxPro disks.

MODEM SPECS

We notice your ment[ion] "available on PCQ O[nline]" for many share[d] packages. What are hardware requirements modem, to access Online? Is a fax m[o]dem powerful enough? Wi[ll] have to register with [...] DartMail, etc? Will [...] enough if we just gi[ve] filename of the prog[ram] What is the registr[ation] procedure for a BBS an[d] do we get a user ID?

KR P[...]
Mangalo[re]

Any fax-modem is [...] though error-correctio[n] minimum requirement, and [...] more stable performers u[p] give better performance.

The process is simi[lar] many BBSes: You go on[line] "new", and the BBS prom[pts] to enter your details. [...] BBSes straightaway ask [...] name, and if it isn't there, [...] for registration.) After [...] BBS Sysop checks [...] details and clears you for [...] level access. When you [...] access, you can go into [...] or other forums and d[o] files.

However, you'll [...] many of the files on the CD [...] that we issue every qua[rter]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AHMEDABAD OR AURANGABAD, CALCUTTA OR COCHIN, DELHI OR DHARWAD, GUWAHATI OR GANGTOK, MUMBAI OR MADRAS ...
... WHEREVER YOU NEED IT.

15 DISTRIBUTORS
40 DEALERS

THE POWER OF REACH

MICROSYS bring you the most advanced features in OFF-LINE UPS Systems. Power back up that is dependable for years in terms of Technology, Capacity, Consistency, Efficiency and Service.

With over 10,000 installations at the country's topmost industrial & corporate houses, Microsys have been Pioneers & Leaders in OFF-LINE UPS Technology. The Guardian Sleek model available in ratings from 250 VA to 1500 VA is unbeatable in price, compatibility, multiple features & reliability.

THE GUARDIAN SLEEK UPS

With a state-of-the-art manufacturing facility, a wide sales and service network all over the country, Microsys have emerged as the most progressive UPS manufacturers in India.

OVER 10,000 INSTALLATIONS • 10 YEARS • MICROSYS

MICROSYS

CHANDRAAT 99, MAYUR COLONY,KOTHRUD, PUNE - 411 029.
Telefax : (0212) 344167
Marketing Office:
Telefax : (0212) 364355

♦ REGIONAL OFFICES : ♦ **BANGALORE :** 3324492 ♦ **CALCUTTA :** 4782578 ♦ **DELHI :** 222790/5826 ♦ **BUSINESS PARTNERS** ● **MAHARASTRA** ♦ AURANGABAD : Memory Marketing : 332159 ♦ KOLHAPUR : Pioneer Electromatic : 657077 ♦ NASHIK : Joshi Electronics : 74216 ♦ PUNE : Atson Sales Corporation : 637908, Sky Computer Services : 361144 Logitech Systems : 477996 ♦ MUMBAI : Surya Automation Enterprises : 8371661 ♦ NAGPUR : Business Algorithms : 533703 ● **GUJRAT** ♦ SURAT : Allway Systems : 636461 ♦ AHMEDABAD : Satellite Electronics & Controls : 6753584 ● **GOA** ♦ PANJIM : The Computer Shop : 223712 ● **M.P.** ♦ INDORE : P & P Computors : 471890 ● **KARNATAKA** ♦ BANGALORE : Siddhartha Enterprises : 3362893 ♦ DHARWAD Kidiyoor Electronics : 347504 ♦ DAVANGERE : Microline : 27943 ♦ MYSORE : Chadurang Compuware : 35988. MANGALORE : Cnet Systems : 428685 ● **KERALA** : ♦ ALWAYE, Unitek Power System 624323. COCHIN : Leela Systems : 354695 ● **T.N.** ♦ MADRAS : Horizon Marketing : 8262270 ● **A.P.** ♦ HYDERABAD : Shanti Marketing & Service P.Ltd. : 290124 ● **ORISSA :** ♦ CUTTACK: Tauras Combine : 614292 ● **WEST BENGAL :** ♦CALCUTTA : Odyssey Computers : 2214201 . ASANSOL Computer Information Systems : 206425 ● **ASSAM :** ♦ GUWAHATI : Swift Systems : 523367

Business partners welcome in unrepresented area.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

last was in December. They have hundreds of shareware packages, apart from some full commercial apps and demos!

—Ed

DESIGN APPS

I am a civil engineer and am planning to set up a construction firm of my own. I am also planning to equip it with the latest in computers. I have *heard* of CAD, multimedia, walkthroughs, etc, but I do not know much about computers. Could you please advise me about the computer courses available for engineers?

Could you also please suggest what equipment and packages I should get for my office, and how much these would cost? I came upon your magazine through a friend and hence decided to seek your guidance.

P Jayaraj
Madras, TN

If your application is CAD, you have many packages to choose from. The most popular is AutoCAD, a high-end engineering design package with many plug-ins and extensions. You also have less daunting alternatives for basic 2-D CAD.

The hardware you need is at least a 486DX2/66 with 16 MB and a VGA color display (Rs 55,000 upward); a 17" display (over Rs 40,000) is a very useful addition. Most CAD users output to plotters, but several inkjet and other printers today have plotting support.

For such a setup for a single user, you're looking at spending about Rs 250,000, with software, an A-3 output device, and a 17" color display. This doesn't cover digitization of existing drawings—use a bureau for that.

—Ed

BOOKS ON 'C'

Does anyone publish books for the A-level examination of DOEACC? What are the best books on Microsoft C++ for Windows, Advanced C for programers, and C and Assembly language?

Anil Ahuja
Jammu-Tavi, J&K

There are books for DoEACC-specification material published by BPB Publications, and others; however, you'll find many non-DoEACC books that cover the subjects equally well but which aren't DoEACC-approved.

Some popular books on C++ for Windows are as follows: Steve Ovalline's Windows Programming with Borland C++; Aiken and Jarol's Visual C++ Multimedia, published by Corious Group Books and Stevens and Watkins' Advanced Graphics Programming in C and C++. Tom Swan's Type and Learn C, published by IDG Books is very popular.

—Ed

ASSEMBLING A COMPUTER

I want to assemble a 386 system. Is there any book on a subject like "Build your own Computer"? If so, please give the price details and publishers' name. Could you please give me addresses of retail stores where I could purchase spare parts and PC components ?

D Ravindra
Rajahmundry, AP

There are several books on the subject. You'll find books with similar names (Build Your Own 486, etc) from BPB Publications; you can also refer to books on maintenance, for the information (such as Upgrading and Fixing PCs for Dummies, from Pustak Mahal). We are not aware of specific store names in your area, so you'll have to ask around—PC maintenance outfits are a good place to start.

—Ed

WRITING FOR PC QUEST

- Articles offered must relate to products, applications technology relevant to the personal computer user.
- They must be no longer than about 1,500 words, unless specified otherwise by the Editor in individual cases.
- PCQ does not publish program listings, except for small programs or modules illustrating a point within an article, very short programs illustrating new or innovative techniques (in SWAP).
- Every article must be accompanied by a signed letter certifying that the article is original and is not offered for publication elsewhere.
- Manuscripts should be neatly typed or printed, on A4 copier paper. Articles on floppy (3.5" or 5.25") in plain ASCII text or standard word processor formats will be preferred.
- Please ensure that the address is clearly printed both on the covering letter *and* on the manuscript. If a floppy is sent, print the author's name and address on a label on the floppy as well as in a README.TXT file in the floppy.
- Letters to the Editor must be marked Readers' Forum and must carry the author's signature, name and address. Letters requesting information of general interest will be published, with a response if necessary. We regret that we are unable to reply individually to Letters to the Editor, or Help Screen queries.

PRODUCT NEWS

To be considered for publication, a write-up for the Product News pages *must* include all of the following:

- Name, type and price.
- Applications and target.
- Full specifications, special features, advantages.
- Availability of final, ready package: when and where.
- The name and telephone number of the person who can be contacted for further details or a demonstration.
- A product brochure.
- The write-up must be accompanied by a good black and white photograph or colour transparency. A write-up without a photograph or screenshot may not be published.
- The product must be available for demonstration and review in any of the four metros or in Bangalore.

Standard press releases without these supports will not be considered for publication.

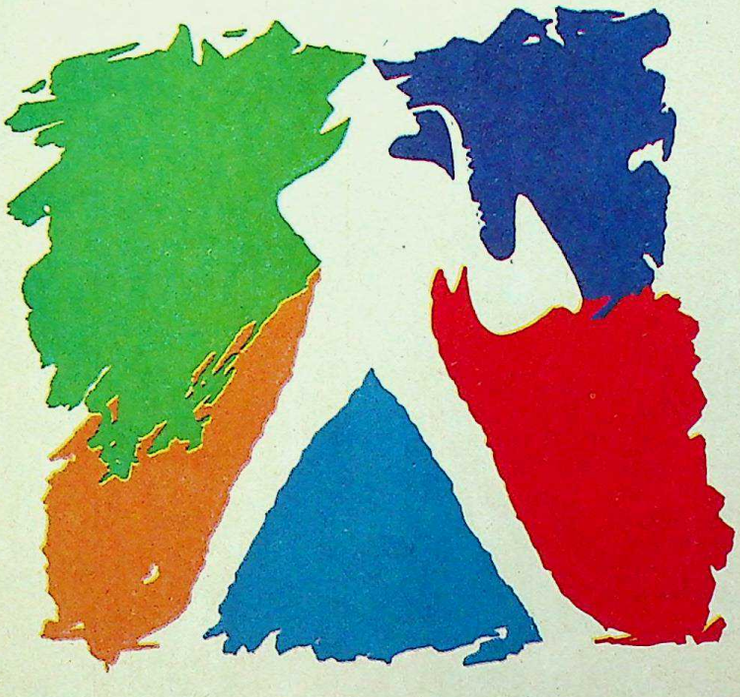
—Ed

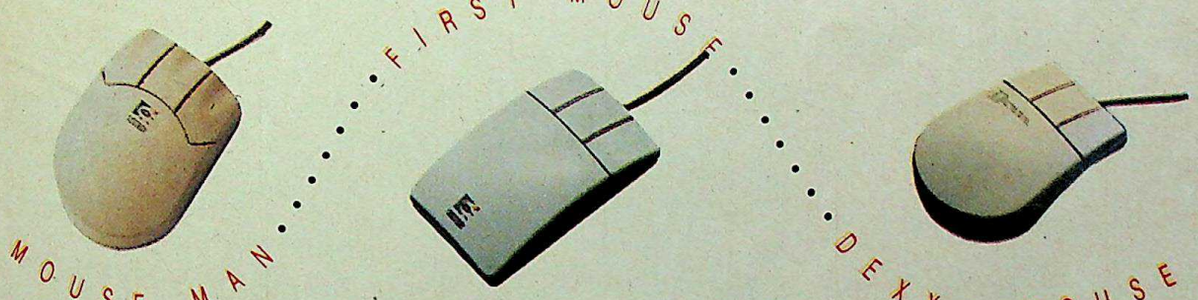
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LOGITECH

ENJOY YOUR Work





Authorized Distributors

VINTRON INDUSTRIES LTD.

F-34, Okhla Industrial Area, Phase I, New Delhi - 110020. Ph : 6814520/6811980/6817981/6813680. Fax : 6810460. Telex : 031-75433 ELEC IN.

Branch Offices : Ahmedabad : D-33, Someshwara Flats, Ph : 6741541; **Bangalore :** 207, 2nd Floor, Midford House, No. 1, Midford Gardens, MG Road, Ph : 5582046/5597186. Fax : 5582046; **Bombay :** 214, Arun Chambers, Tardeo, Ph : 4939905/4949905. Fax : 4939905; **Madras :** No. 38, Madhvan Nair Road, Mahalingapuram, Ph/Fax : 8262658.

QUALITY RELIABILITY TRUST FOR YOU

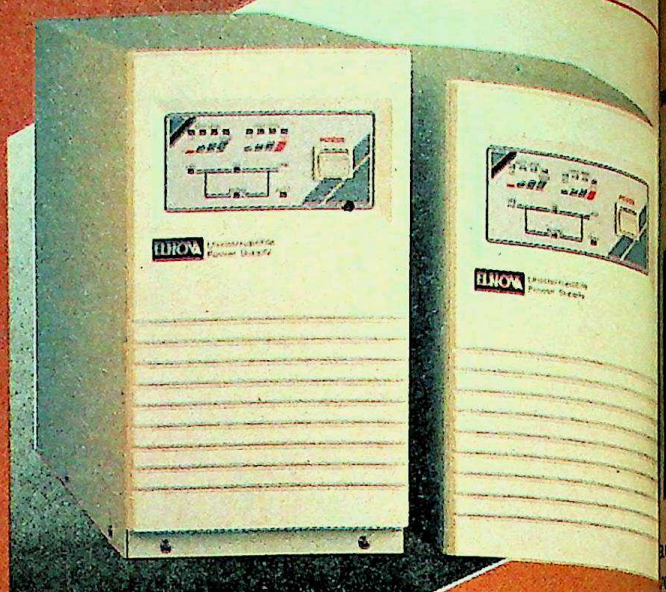
DEALER ENQUIRIES SOLICITED

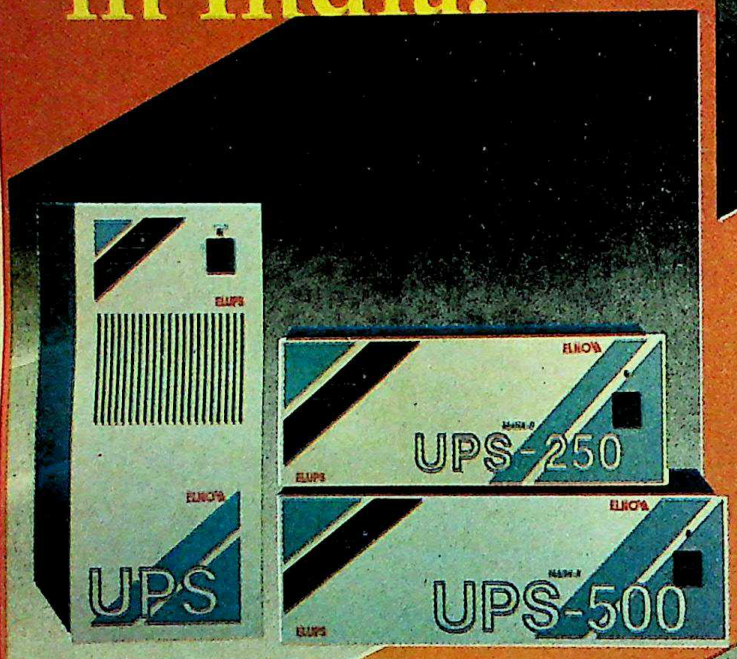
ILABLE AT : AGRA : 52125, 360562, 351381. **AHEMDABAD** : 407825, 6740191, 6743863, 6569176, 6568784, 440927. **AKOLA** : 40051, 430721. **ALLAHABAD** : 607454. **ALWAR** : 71330. **AMRAVATI** : 73166, 78165, 77445. **ANAND** : 24222. **BANGALORE** : 5582064, 5597186, 5586174, 5588656, 2254031, 2259233, 2202174, 2222000, 2223774. **BAREILLY** : 471444, 478707. **BARODA** : 331191. **BELGAUM** : 26170, 433017. **BHAVNAGAR** : 20474, 26172. **BHILWARA** : 25101. **BHOPAL** : 564533, 566243, 553022, 63614, 552642. **BHUBANESHWAR** : 482583, 655930/31/32, 655640. **BIKANER** : 23541, 26600. **BILASPUR** : 21030, 3880. **BOMBAY** : 3083011, 3098021, 8213636, 8394470, 389480)/01/02, 3072272, 3088194, 3072918, 3098794, 3060255, 2062755, 2062756, 4073300, 4094400, 4094277, 5135953. **BORADABAD** : 647269, 640260, 641621, 2924682, 2964804, 7112091, 723400, 6414913. **DHANBAD** : 307901. **ERNAKULAM** : 048541-225478, 349537. **ERODE** : 213435, 210308, 73908. **GANGTOK** : 22543, 22279. **GHAZIABAD** : 8-754329. **GONDIA** : 24760. **GUWAHATI** : 540680, 542715, 524418. **HUBLI** : 374061, 367026. **HYDERABAD** : 813144, 630675, 637207, 241980. **INDORE** : 478744, 536003, 432504, 430194, 535381/2, 538289, 555528, 532362. **JABALPUR** : 21522 PP, 316138. **JAIPUR** : 301972, 310973, 315412/EXTN. 308, 366862, 362627, 373872, 368539. **JALANDHAR** : 36796, 38229. **KANPUR** : 319916, 319056, 317755, 313530. **KOTA** : 27634, 420165. **LUCKNOW** : 220469, 218350, 272211, 245503 **LUDHIANA** : 456891, 455860. **MADRAS** : 4349202, 4349454, 4349781, 835615. **MANGALORE** : 26822, 31341. **MEERUT** : 6431541, 52654. **MEHSANA** : 50696, 51369. **MORADABAD** : 20528. **MUZAFFARNAGAR** : 403274, 409814. **MUZAFFARPUR** : 241967, 249776. **MYSORE** : 510555, 512555, 516555, 515489. **NAGPUR** : 520200, 538786, 40401, 45614, 238629, 227218. **NAJIBABAD** : 20358. **NASIK** : 70115. **ROURKELA** : 2476113. **PATNA** : 651692, 659806. **PUNE** : 451521, 451221, 652404, 457189, 668328, 669057, 328470, 441155. **PUNJAB** : 40746, 25567, 40519. **RAIPUR** : 534205, 24805, 526634, 535817, 533882, 26713, 426844. **RAJKOT** : 84030. **RANCHI** : 202302, 500423. **SANGLI** : 76348, 78855. **SATNA** : 23631, 23542. **SHAHJAHANPUR** : 22976, 22078. **SHIMLA** : 212386. **SURAT** : 683002, 621740. **TRIVANDRUM** : 0471-61913, 462116. **VARANSI** : 312884, 312780, 361585. **VIDYANAGAR** : 32816. **VISHAKAPATAM** : 555920.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Elnova is the most preferred* UPS in India.





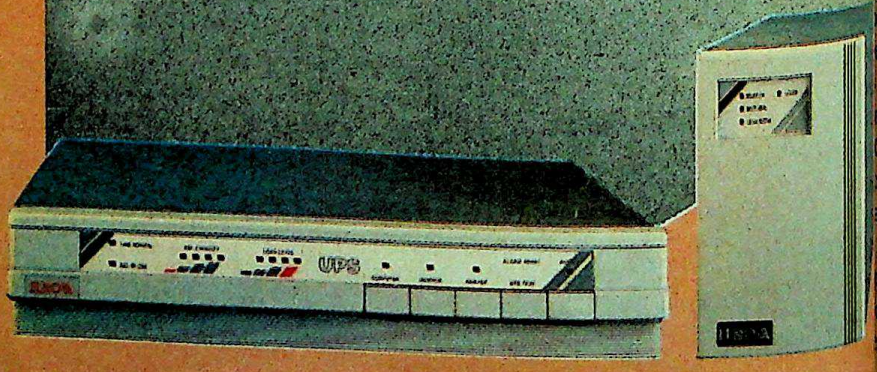
That's the verdict of the Computer Users from all over India. And we fully endorse them.

After all, we've been making UPS and allied equipment for over 25 years. And are one of the largest-sold UPS brands in India.

Our UPS have stood the test of time. And Quality.

That's because Elnova UPS are specially created for Indian environment and to work under typical Indian power conditions.

Whenever you require a UPS, do what the intelligent users are doing, get an Elnova UPS.



* Rated at Top
User Perception Survey,1994 PC Quest

* Rated at Top Again
User Perception Survey, 1995
Report in PC Quest, September '95 Issue

5113 units sold during
Nov. '94 - Oct '95

ELNOVA

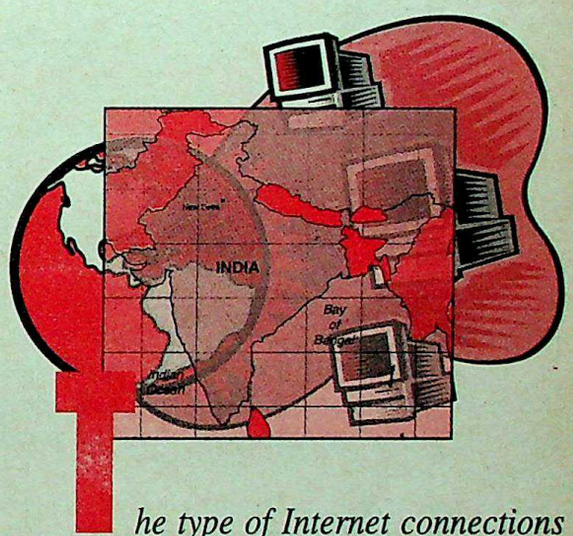
ELNOVA PRIVATE LIMITED
41 New Okhla Inustrial Complex, Phase II, Scheme III, New Delhi 110 020
Telefax: 6841164, Tel.: 6846187,6917626

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Using the VSNL Shell Account

How to connect to the Internet and use the VSNL shell account—with a few useful tips



The type of Internet connections you get in India could change, now that the government has lifted the barrier on private Internet providers

Last month, I explained what sort of Internet accounts you can get in India. At the moment, that is. Things could change soon enough, now that the government has lifted the barrier on private Internet providers.

This month, I'll address the actual connection process, and also give you a few hints on how to get the most out of such a connection. We will specifically discuss the VSNL Shell Account this month.

BEFORE YOU CONNECT

Connecting to the Internet with a Shell account is pretty easy—you dial the number of your Internet gateway using your modem. If you get through, then you log in using your account name (User ID) and password, and you're on.

But hold on—let's make sure that you have all your settings in place before you do that.

First of all, check your modem. Is it an error-correcting one? It had better be. Trying to connect without MNP or V.42 is an exercise in frustration.

If you are using an external modem (as you should be), make sure that your serial cable that connects your modem to your PC is a good one. Specifically, ensure that the nine critical wires on the 25-pin side of the cable (which connects to the modem) are properly connected to their counterparts on the other end of the cable (which connects to your PC). The nine critical wires are those that are connected to pins 2, 3, 4, 5, 6, 7, 8, 20 and 22. If you are using a cable with a 25-pin connector at each end, then these should be connected in a one-to-one fashion (that is, pin 2 is connected to pin 2 on the other end, and so on). If you are using a 9-pin connector at the PC end of the cable, make sure they are connected in the way shown on the following page.

Some modem vendors try to get away with an incomplete cable—make sure that this is not the case with your cable. If it is, get a replacement before you try anything else. You can check this either by opening the connector cases (each is held by two screws) and by using some kind of continuity tester such as a multimeter.

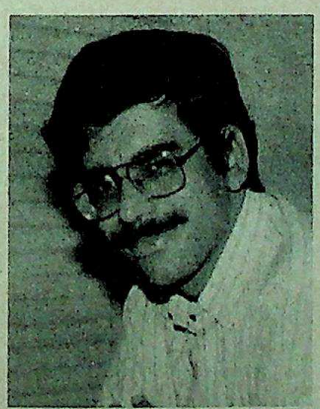
Next, make sure you have the right communication software. Many of you are still using DOS and/or Windows 3.x. In this case, stay away from Windows-based communication programs and stick to DOS programs. If you are using Windows 95 or OS/2, Windows-based programs are feasible—the ones shipping with these two operating systems are pretty decent. For the moment, I assume you are using a DOS based program, specifically the one called Telix.

Configure the communication program so that your terminal speed is 19,200 bps, that terminal emulation is set to VT100 or VT102, and that hardware flow control (RTS/CTS) is enabled.

Next, use this program to configure your modem. Ensure that the modem is set for hardware flow control (usually AT\Q3). Set the modem so that it does not get cut off by the five minute beep (ATS10=200) and also set the dial time-out to 90 instead of the default 45 (ATS7=90). Save these settings (AT&W) so that you do not have to repeat this every time.

CONNECTING TO THE INTERNET

When you connect the first few times, I strongly suggest that you do so at 2,400 bps instead of 9,600 or faster. The reason is that if your modem or line quality is not very good, you will have a disappointing time. Force your modem to connect at 2,400 by making



Atul Chitnis is a datacom and network consultant in Bangalore. You can reach him at atul@ilsc.ernet.in or via his web pages at http://ourworld.compuserve.com/homepages/achitnis

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

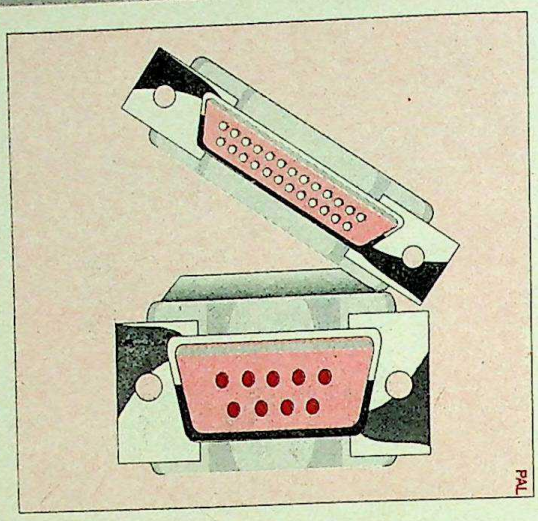
Digitized by Arya Samaj Foundation Chennai and eGangotri

the appropriate setting in the modem (ATS37=6 in most cases, ATB6 in Motorola FasTalks, and AT&N14 in ZyXEL modems).

Now, you are ready to call into the Internet. But just before you dial, take a second to open a log or capture file. In Telix, press Alt-L and enter a filename. From now on, everything that appears on your screen will also be saved in this file.

Now dial the Internet number by typing ATDP followed by the correct number (if you have Tone Dialing available on your line, use ATDT instead). A faster way is to make an entry in the dialing directory (Alt-D for Telix) and use that to dial instead.

Once you connect to the Internet, in this case via VSNL's Gateway Internet Access Service, you will be prompted for a user ID and a password. Enter them exactly as told to you by the Service Provider (remember that case is important—PRASANTO is not the same as prasanto or Prasanto—ditto for the password).



25-pin		9-pin
2	⟷	3
3	⟷	2
4	⟷	7
5	⟷	8
6	⟷	6
7	⟷	5
8	⟷	1
20	⟷	4
22	⟷	9

ONLINE TO THE INTERNET

One you are connected and logged in, you will be shown a menu of options. VSNL has promised to give full shell access Real Soon Now, but for the moment you are still stuck with the menu.

Now, pay attention. If you are connected to a VSNL site other than Bombay, your VSNL user shell probably has a horrible bug that could lock you out of your account if you are not careful. Follow these steps exactly to avoid this:

1. Select the KERMIT option from the menu.
2. Type this command: del shell.sem
3. After you get a confirmation that the file has been deleted, type exit to quit from the KERMIT program.

If you do not follow these steps, and if you lose the connection at some point (with a "NO CARRIER"), you may find that you cannot log in again and will have to call the 24-hour VSNL helpdesk (which, you may find, often works from 9 to 5) to get the account released.

Right, now you're all set and can explore the various options available to you in the VSNL menu.

There aren't too many choices to be made here. You have an electronic mail option, you can use telnet to connect to other computers, ftp to transfer files from other computers and Lynx to browse the World Wide Web in text mode.

Here are a few tips that speed up operations for you.

ELECTRONIC MAIL

VSNL does not provide yo... any way to download all your ... one shot. But there is a w... which you can do this. Here ... steps:

1. Select the Download Zmodem option.
2. Some sites will now sh... a list of files in your directory. Enter until you are asked ... filename.
3. Now type in the following very care... usr/spool/mail/userid, where userid ... be replaced with the name of your acco... login name you use to log in). For exam... your userid is "prasanto", enter /usr/... mail/prasanto.
4. Now the contents of your e-mail ... begin to transfer to your computer. ... have not enabled Auto-Zmodem downl... your communication package, you wi... to start the transfer manually, such ... pressing PgDn and selecting Zmodem...
5. When the transfer is completed su... fully, verify that the file is now on your ... will be a file with a filename the same a... userid—in this case prasanto). You c... this by dropping down to DOS (in Telix ... with Alt-J) and using the DIR comm... check it.
6. While you are there, rename the ... unique name (I use the convention yy... eml, where yy is the year, mm is the ... and dd is the day. For example, e-... download on the 10th of January ... would be renamed to 960110.eml). Th... is important because the next time you ... load a mailbox, the same name would b... and your existing mail-file could ge... written.
7. Return to your communication p... by typing EXIT.
8. Now select the KERMIT option fr... VSNL Shell Menu and delete the mai... VSNL host by typing the command de... spool/mail/userid (replace userid w... own login name).
9. Now you can log out of VSN... disconnect, then read you mail at ... offline, using a text editor or a word pr...

Posting a message is cumbersome ... Here is a way to speed things up:

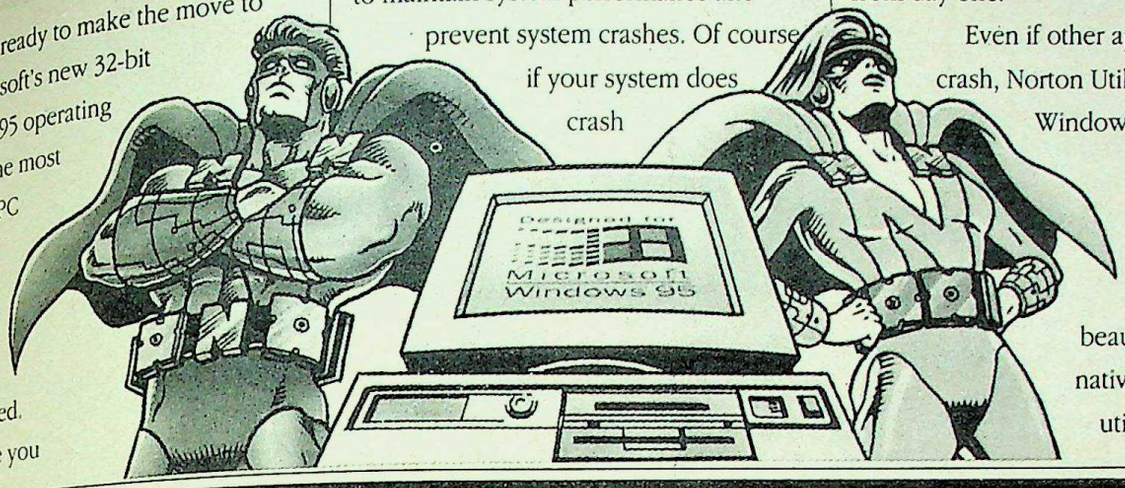
1. First of all, before connecting ... your message using a pure-ASCII te...

Make sure your cable connection matches this model, or get a replacement before you try anything else

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

You're ready to make the move to Microsoft's new 32-bit Windows 95 operating system. The most powerful PC operating system you've ever experienced. But before you do, upgrade your utilities to Norton Utilities® for Windows 95.



NORTON UTILITIES PROVIDES THE ONLY AUTOMATIC DATA RECOVERY AND CONTINUOUS SYSTEM PROTECTION FOR WINDOWS 95.

IT'S A 32-BIT WORLD OUT THERE.

You already know Norton Utilities is the best set of tools for system protection, hard disk optimization and data recovery.

What you may not realize is that your current 16-bit utilities won't run under Windows 95.

And the simple utilities found in Windows 95 itself don't offer sufficient data protection for life in a 32-bit world.

Which is why you need the new Norton Utilities for Windows 95.

The first thing Norton Utilities for Windows 95 will do for you is tune up your system for Windows 95 by optimizing your hard drive and cleaning out all of the files you no longer need.

Then Norton Utilities runs in the background, monitoring your system and automatically launching tools to maintain system performance and prevent system crashes. Of course if your system does crash or you accidentally erase a file, Norton Utilities for Windows 95 gives you the data recovery tools users have relied on from day one.

Even if other applications crash, Norton Utilities for Windows 95 keeps running to help you recover. That's the beauty of our native, 32-bit utilities. No other utilities can give you this kind of continuous, real-time protection and data recovery in the brave new world of Windows 95.

NORTON UTILITIES FOR WINDOWS 95

PRE-INSTALLATION TUNE-UP
Frees up disk space and provides a comprehensive pre-installation physical.

NORTON SYSTEM DOCTOR
Continuously monitors all vital resources and data integrity. Alerts you to impending disaster and recommends action or fixes problems automatically.

NORTON DISK DOCTOR®
Automatically diagnoses and repairs file system problems using the speed and safety of 32-bit technology.

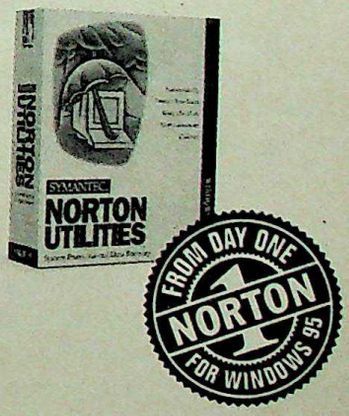
UNERASE®
100% protection of erased files. The new wizard-like interface leads you through file recovery step by step.

SYSTEM INFORMATION
Diagnoses potential conflicts and configuration problems with detailed system information and performance testing.

NORTON SPEED DISK™
Automatically optimizes drives and reduces future fragmentation using 32-bit technology.

PROTECT YOUR DATA FROM DAY ONE.

So you've got nothing to lose. Except your data. Get your copy of Norton Utilities for Windows 95 today.



FROM DAY ONE NORTON FOR WINDOWS 95

SYMANTEC.™

Infosys

INFOSYS TECHNOLOGIES LTD.
'Pavitra Complex', No.1, 2nd Cross, 27th Main, BTM Layout 1st Stage, Bangalore - 560 068. India
Tel: (080) 668 1755, 668 0182, 0183, 0184, 0185 Fax: (080) 668 0181
Branch Offices : **Bombay:** (022) 2846490, 2882911, 2882914 Fax: (022) 2846489, **Delhi :** (011) 608397, 605820, 676512 Fax: (011) 6885149

Infosys is the authorized representative of Symantec Corporation in India. All brand and product names are registered trademarks of their respective holders.

SOLUS/INFS/1195

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

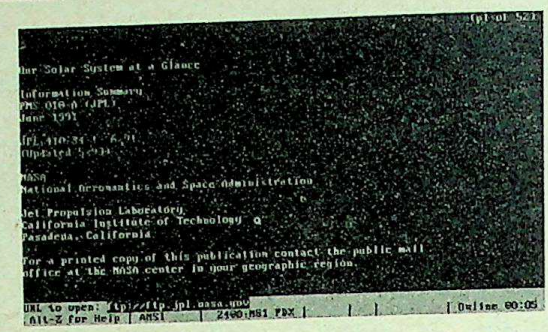
(such as NE, my own Teddy, or the Windows Notepad). Save it as a file.

2. Next, connect to VSNL, and select the E-Mail option. Choose C to compose a message. Now you will be asked the address to which the message is to be sent. Enter it exactly as it has been told to you (for example, my address is atul@iisc.ernet.in). If you have it set in your addressbook (A from the e-mail main menu) you could just type in "atul" and the rest would be filled in.

3. Next, enter a subject for the message.

4. Finally, your cursor will enter the message text area on the screen. Don't type anything now. Instead, press PgUp, which will bring up the Upload menu in Telix, and select ASCII. You will be asked for a filename—enter the name of the file in which you have saved the prepared message. Telix will now quickly send the prepared text to VSNL. At the other end, the e-mail editor will think you are the fastest typist on earth, and will accept the text as if you have typed it yourself online.

5. Once the message transfer is complete and the transfer screen disappears, press Ctrl-X to send the message on its way.



A BETTER WAY TO FTP

Most people will use the FTP facility offered in the VSNL menu to transfer files from remote computers to the VSNL computer. Here is a smarter way to do it:

1. Select the "Lynx—Browse the World Wide Web" option from the menu.

2. Once the screen settles down, press "g". You will be asked for a URL. Here enter the site you wish to connect to, prefixed with ftp://. For example, if you wish to connect to ftp.microsoft.com, enter ftp://ftp.microsoft.com. Press Enter.

3. Now Lynx will connect to that site, and will show you a scrollable menu of directories and files available there. Navigate to the directory you are interested in, and highlight the file that you want. Now press Enter to download it to the VSNL computer.

4. Lynx may now ask you what to do with the file—select Download.

5. The file will now begin transferring to the VSNL computer. When it is complete, it will ask you what to do with it—select Save. It will ask you for a filename—the default is the original filename of the file, and pressing Enter now will accept it as such.

6. Now Select "q" to quit from Lynx, and use the Zmodem Download option from the VSNL shell menu to transfer the file to your computer.

VSNL's decision not to allow UseNet newsgroup access to its users makes it inconvenient to access the thousands of newsgroups that form the heart of the Internet

ACCESSING USENET

VSNL had promised newsgroups access in its but appeared to have cha mind later. The bottomline there is no convenient way the thousands of newsgro form the heart of the Interne

Well, where there's a will way.

1. First of all, you need to configu Mail program to read news. To do this E-Mail facility, and choose Setup, the

2. Scroll down to the item that sa Server and press "a". Enter the exactly as shown: luzskru.cpcnet.co

3. Press enter, then "e" to exit configuration process. Then Quit fro Mail program.

4. Next, you need a file that co various newsgroup names. There is way to get this, so I have put up such my web pages. Use Lynx to connect /ece.iisc.ernet.in/monster and selec brary option. From there, select newsrc.cpc and download it.

5. Once it has been downloaded VSNL directory, use the KERMIT opti and type this command: "rename ne .newsrc" (that is, a dot followed by don't type the quote marks!)

6. Quit KERMIT, and get back in mail program.

7. Select Folders.

8. Scroll down to the News groups press Enter.

9. A little while later, the newsgr appear and you can select one. This all the message topics in that newsgr retrieved — unfortunately, this can t time. Be patient.

10. Finally, select the messages to read.

Have fun!

WINDING DOWN

OK, that's it for this month. Next give you more tips on how to make y the Internet a little easier.

In the meantime, let me know fare. Got any tips you think other know about? Found any interesting visit? Let me know via E-Mail, and cover them in future articles.

This article was written in the second week of was current then. At press time, VSNL has things, implemented a limited shell prompt some of the tips and suggestions may no

CC-0. In Public Domain. GBPKUL Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YOU NEED HIGH SPEED PRINTING BUT... FIND LINE PRINTERS TOO EXPENSIVE, TOO NOISY, TOO BULKY, WITH POOR PRINT QUALITY

L&T brings you Compuprint 970/1070. They give you the high speed advantage of a line printer, but save you the disadvantages....

Highlights

- Throughput speed: 220 lines/min.
- 1 + 5 copies
- Two fanfold paper paths and auto cutsheet loading
- 32 KB data buffer
- Mean time between failure: 9000 POH

Features:

- Comparable in burst speed and ruggedness to a 300 LPM line printer
- Very sophisticated paper-handling
  - Fully automatic paper selection, loading and parking
  - Automatic adjustment of head gap according to paper thickness
  - Multiple paper paths
  - 1 + 5 copies, Cutsheet handling
- Low noise and multiple fonts
- Colour printing

PC MAGAZINE EDITORS CHOICE

For details of Compuprint 970 and 1070, please fill in this coupon and mail it to Data Products Division, Larsen & Toubro Limited, Venkataramana Centre, 563, Anna Salai, Madras 600 018.

Name _____

Designation _____ Organisation _____

Address _____

_____

_____ Pin _____

Tel: _____ Tlx _____ Fax _____

Data Products Division
LARSEN & TOUBRO LIMITED

Venkataramana Centre
563, Anna Salai, Madras 600 018
Tel: 4343309 Fax: 044-4342639

Data Products Section

- New Delhi Tel: 3731873
- Calcutta Tel: 2422301/5
- Madras Tel: 8522141
- Bombay Tel: 6401232

L&T/Adv Dept /DAPR 501

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Steady on Track

Improvements in PowerBuilder 5.0—native code generation, three-tier C/S and ObjectCycle—will strengthen PB's hold on the market

Developers of database apps in general, and PowerBuilder developers in particular, are eagerly awaiting the unveiling of PowerBuilder 5.0. The questions uppermost in everyone's mind are—Does it offer better operating speeds? Does it offer an extensible component based environment?

We got some answers at a sneak preview of PB 5.0 arranged by Crescent Software Solutions. (Incidentally, NIIT's alliance with Sybase notwithstanding, it is Crescent Software that is charged up about the impending launch of PB 5.0.)

Answering the second question first—No, there is no extensible component based environment. PB 5.0 steadfastly sticks to the datacentric orientation of the earlier versions. PowerSoft has chosen to build on PB's intrinsic strengths. PB continues to be an excellent front-end application development tool. If it is just C/S apps that you need to develop, PowerBuilder is your best bet. Three notable improvements make it better than ever before.

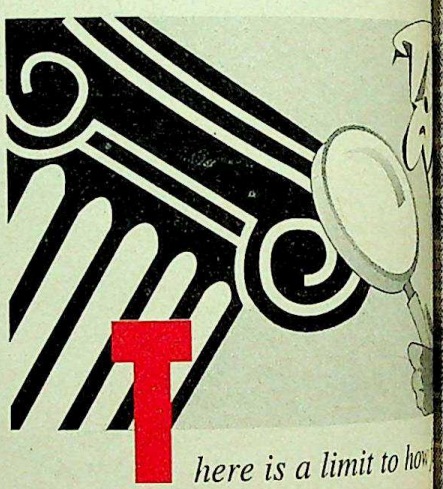
At the launch of PB 4.0 early last year, Sybase had promised genuine executables, rather than P-code, with the next release and they have delivered—PowerSoft has implemented native code generation. The details of the implementation are not yet clear (we are yet to get a copy of the beta at PCQ Labs) but there can be little doubt that Watcom's compiler technology would have licked the only major problem with PB—the slow operating speeds of its apps.

The second new feature of PB 5.0 is its ability to partition PowerBuilder objects across the network for improved application performance and management.The concept is referred to as three tier C/S. Some of the business logic in the front end application is offloaded to another workstation running a server platform such as Windows 95, Windows NT or Unix. The business logic would need to be in the form of nonvisual objects. The workstation running the client devotes most of its resources to the user interface part of the application. Once again, we would need to see how it works in practice before deciding whether we are seeing the maturing of a new technology or the first tentative steps towards one.

The third feature is ObjectCycle, a server-based object management facility that provides versioning, labeling and reporting functions to assist development teams in doing rapid application development in a workgroup setting. Unlike some competing products merely support team development using third party products, PB now comes with its own support built in.

There are a host of other improvements such as support for OLE 2 automation, OCX controls and two new DataWindow presentation styles—OLE 2 and Rich Text Edit (RTE). Productivity tools such as the PowerBuilder Foundation Class (PFC) Library offers developers a set of reusable, pre-built objects and services to accelerate the development of object-oriented 5.0 applications. Designed from inception as an extendible class library, developers can easily customize and extend all PFC classes.

OLE style DataWindows provide a standard interface for OLE automation servers, and make it possible to embed OLE server objects in



There is a limit to how far PB will go. Software products are short-lived and PB is clearly middle-aged already

Windows.

PowerBuilder has a large installed base worldwide. As far as C/S computing is concerned, it got there first. To dislodge it, is an uphill task for any competing product, no matter how good. With aggressive marketing it continues to have the competition on the run.

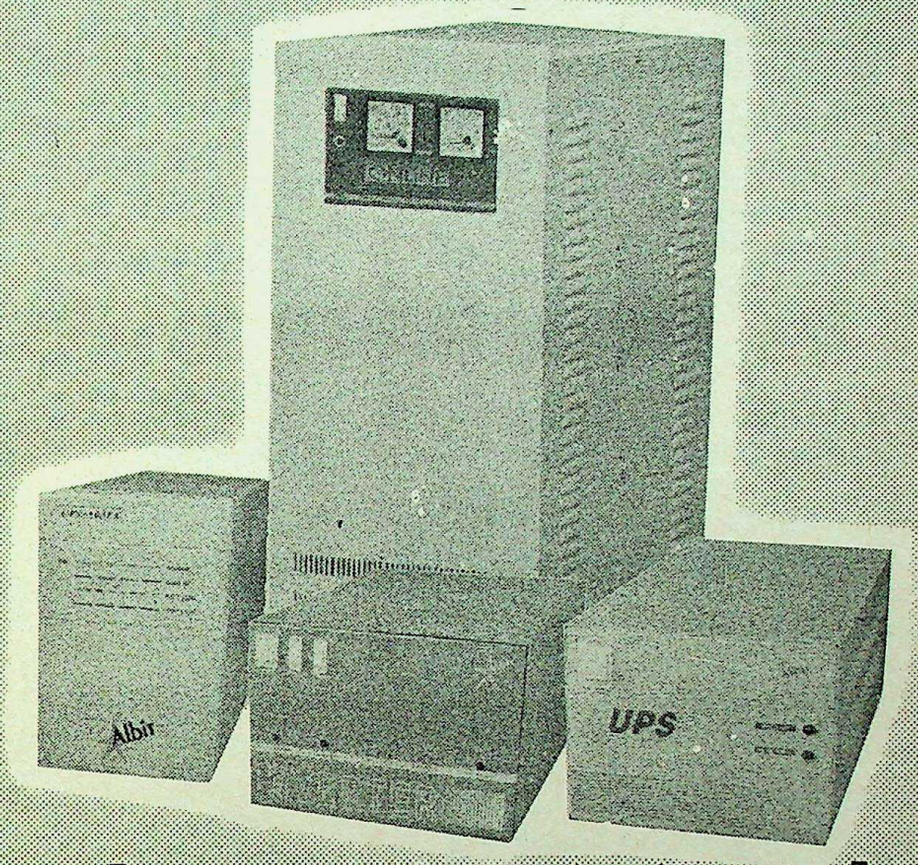
I would like to add that there is a limit to how far PB could go. Its core technology is dated. Eventually it will have to play second fiddle to the new generation. The recent acquisition of the company 'Visual Components' and the formation of PowerSoft Components division are indications that Sybase is aware of this and is preparing for a component based development environment. Technology has its way of keeping everyone on their toes.

VK Thakur is a Delhi-based database and information consultant and runs his company Leading Edge Colutions. You can reach him via the COL forum of PCQ Online (11-6221734)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MASTER PIECES
INSPIRED BY POWER PROBLEMS



CREATED BY

Albit

Albit Electronics (P) Ltd.

CVT : 50 VA TO 5 KVA ✸ INVERTER : 250 VA TO 5 KVA ✸ FAX UPS
OFFLINE UPS : 250 VA TO 1250 VA ✸ ONLINE UPS : 500 VA TO 10 KVA

Albit Electronics Pvt. Ltd. is a well established professionally managed company engaged in manufacturing of UPS, CVTs & Inverters. The Company was established in 1992. Our motto has been to give our esteemed customers the maximum value for their money. During short period of 3 years, the name Albit has become synonymous with complete customer satisfaction.

The Albit On-Line UPS combines high tech design, innovative features, proven reliability & elegance to offer a UPS which provides the most economical solution to protect your equipments from all kinds of power problems.

The Albit Off-Line UPS has built in line conditioner, AVR to provide pure reliable uninterruptible power for complete security from power blackouts, surges, sags or other dangerous electrical disruptions.

Albit has designed & developed CVTs using ferro-resonant transformer to provide instantaneous voltage correction. Albit CVT ensures power supply, free from transients, surges, spikes & other electrical noises, customary for microprocessor based equipments.

Albit Inverter is exclusively designed to meet your domestic power requirements during electricity failure. It is fully IC controlled, portable, pollution free, noise free & has auto start-stop function.

The Albit Fax UPS is specifically designed for Fax machines. The UPS provides power to the Fax machine only while the Fax machine or the Telephone is in operation & shuts it off when it is idle. Thus the UPS can give hours of power backup to the Fax machine.

DEALERS ENQUIRY SOLICITED Contact Albit

B-20, BASEMENT, SHAKTI NAGAR EXTN., DELHI-110052.
PH.: 7218038, 7428038, 7428039 FAX : 7419039

: Authorised Dealers :

Delhi : BLUE DOT ELECTRONICS. Ph.: 2966727, 2963613 . INTERNATIONAL IMPEX. Ph.: 2512806, 6415597, 2931214
MICRO MAX. Ph.: 5787014, 5787356, 6434023 . QUANTUM HITECH MERCHANDISING. Ph.: 5787051, 5759699
Bhubaneswar : SAKTI ELECTRONICS & ELECTRICAL COMPANY. Ph.: 403794, 408159 • *Jammu* : QUANTUM TECHNOLOGIES. Ph.: 533144
Bhopal (M.P.) : SKOPE SYSTEMS. 231, Lahoti Chambers/6, Zone-1, M.P. Nagar. Ph.: 555846, 591199 Fax : 5723772
Guwahati : SURESH SYSTEMS PVT. LTD. Indus Complex, M.C. Road, Chenikuthi. Ph.: (0361) 547524, 543332

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Business AI

AI apps are used to regulate the capital market, check municipal bond credit rates and in risk visualization

Last month we looked at some state-of-the-art capital market apps using AI as the core technology. An interesting US app I have come across is credit rating of municipal bonds. This is needed to determine municipal credit-worthiness: both when subscribing and to protect investments.

Rating a municipality's credit quality is different from rating a firm or person. This exercise is based on evaluating both quantitative and qualitative factors. Most models are based on quantitative factors, and few really understand how to include the qualitative factors.

One solution takes a case-study based approach. It may be tough to figure out the credit quality in absolute terms. But analysts can compare parameters within municipalities to arrive at a decision. The problem is then reduced to designing an intelligent front end for a case studies database. The front end matches large parameters combination to stored cases. And this is where AI enters the picture.

Another approach first enumerates the factors affecting credit rating. It then attempts to assign values to each factor for an ideal credit rating, corresponding to a hypothetical perfect municipality. An expert system is used to match the factors of the municipality rated with the ideal and provide a score indicating credit quality.

Systems based on this approach are used in day-to-day decision making. One example is MuniCredit which rates public power bonds by of credit quality.

It uses a combination of 70 interrelated quantitative and qualitative factors divided into three levels.

The model also accepts fuzzy values for some factors, and will even work if many factors are skipped.

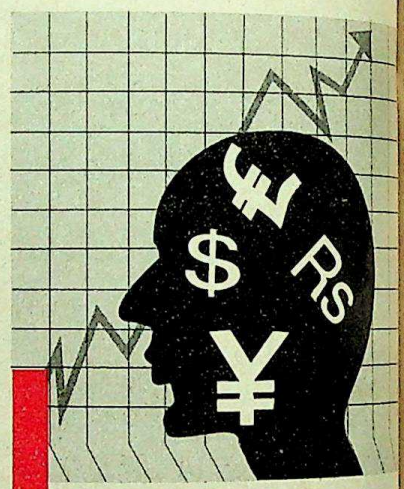
MuniCredit is a conventional rule based system. Information visualization is a fundamentally different use of AI principles. Conventional information visualization has been restricted to business graphics. This approach is too simplistic for the financial and capital markets due to the complexity and volume of data.

What is needed here is intelligent information visualization, that can cut through data volume and complexity to reveal significant trends.

An example is visualizing the market risk of securities portfolios. Analysts use standard deviation of the returns obtained from a sec... as a measure of risk. With a direct relatio... between risk and return, investors as... greater risk for higher returns.

A typical risk visualization system use... graphical model to portray the risk of a ... securities against the yield on goverm... securities. The model can be continu... updated by using an online service to dow... prices and yields. In addition the mod... playback mode shows how risk profiles ch... with every point change in the yield.

Other innovative AI applications are in ca... market regulation. Over the last dec... regulators (including SEBI in India) have ... tightening their market monitoring. Mutual ...



ntelligent information visualization can cut through data volume and complexity to reveal significant trends

are governed by strict regulations that sp... the exposure that a fund can have to a sp... industry, country, company and so on. ... regulations also lay down accounting norm... the fees chargeable by the asset manage... company.

The problem lies in enforcing such re... tions. The regulator has to continuously ... through voluminous data for rule violatio... addition there are circumstances where ... are violated without any *malafide* on the ... part. Such a setup is ideal for a rule-b... expert system and this is the method fo... by regulators in developed countries.

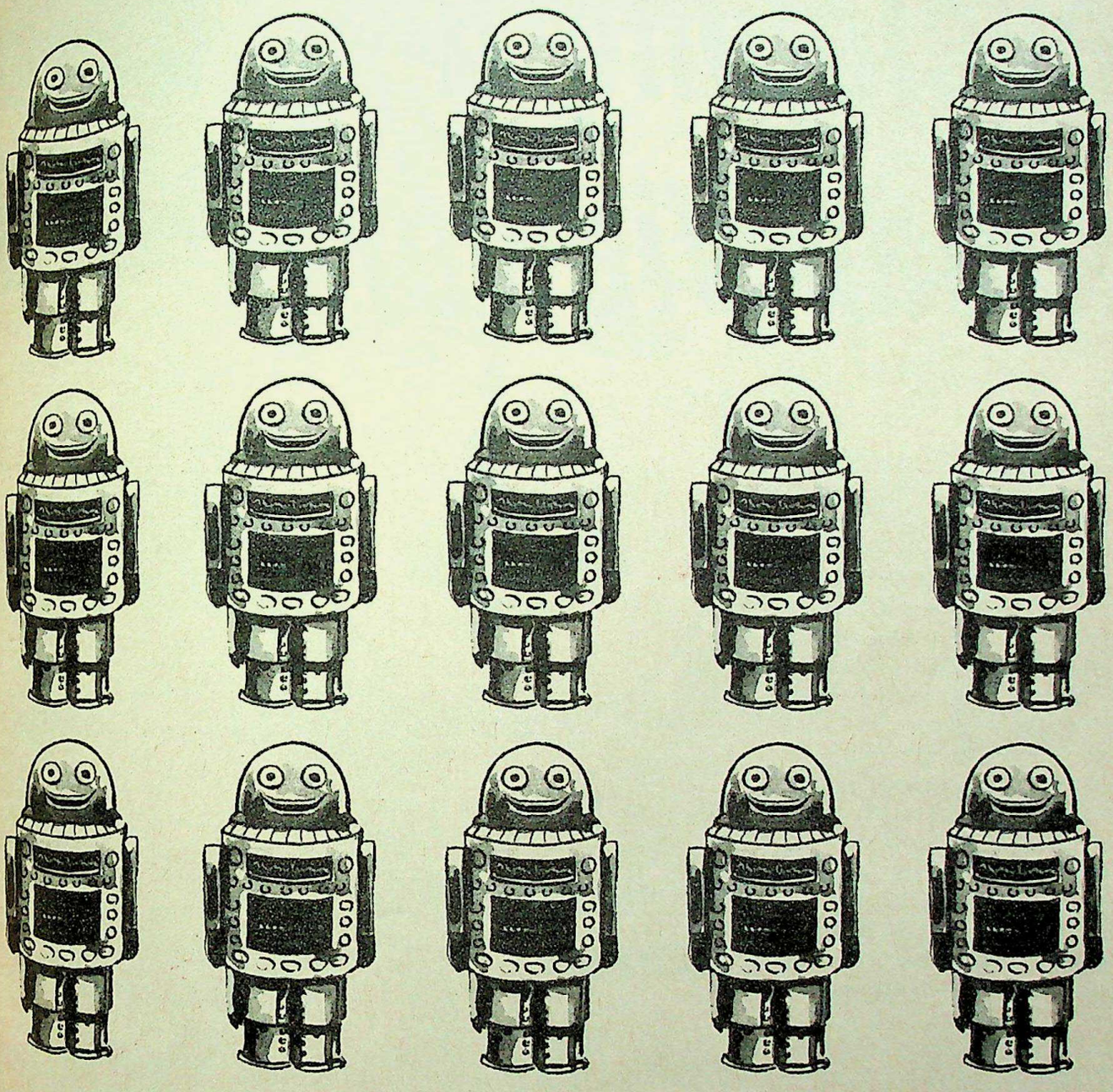
The Bottomline Financial and capital ... ket apps will increasingly gravitate from ... AI mode.

Gautama Ahuja is a contributing editor of PC Quest. He also owns and manages AHC Infotek, a Delhi-based turnkey software development company. You can reach him at sga%dartnet@uunet.uu.net or via the COL forum of PCQ Online

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

A vendor,
is a vendor, is a vendor, is a vendor.



Wrong. *Try us!*

● COMPUTERS ● SOFTWARE ●NETWORKS ●COMMUNICATIONS

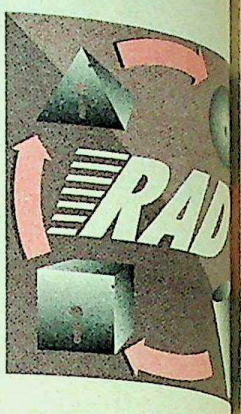
AABHA
SYSTEMS SERVICES SOLUTIONS

AABHA MANAGEMENT SYSTEMS PVT. LTD.
22 A, MIG, Katwaria Sarai, Opp. Qutab Hotel,
New Delhi - 110 016. Ph. : 686 8923, 66 1740 Fax: 696 8767
E - mail: infotek.aabha@axcess.net.in

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Developing A Bitmap Viewer



A step-by-step guide to developing a bitmap vie cum-locator in Delphi

The Icon grabber utility that we put together last month was of interest to developers. This time, we'll develop a graphic utility that should interest all Windows users—a bitmap viewer/locater. We'll call it Bitview.

Bitview lets you browse through the bitmaps on your disk and, if you so like, copy one to the clipboard. You don't have to repeatedly load up PaintBrush or PaintShop or whatever else you use, just to see the contents of a BMP file. The first time I used the utility I discovered a lot of fascinating pictures on my disk, whose existence I was not even aware of. Maybe you will too.

If you are not a Delphi developer, you can download the utility from the COL forum of PCQ Online and use it. If you are a Delphi fan then boot up your machine and we will RAD it together. In the process we learn how to do the following in Delphi:

(a) Display a splash screen
(b) Search for files on the disk
(c) Use an image component

Putting The Interface Together

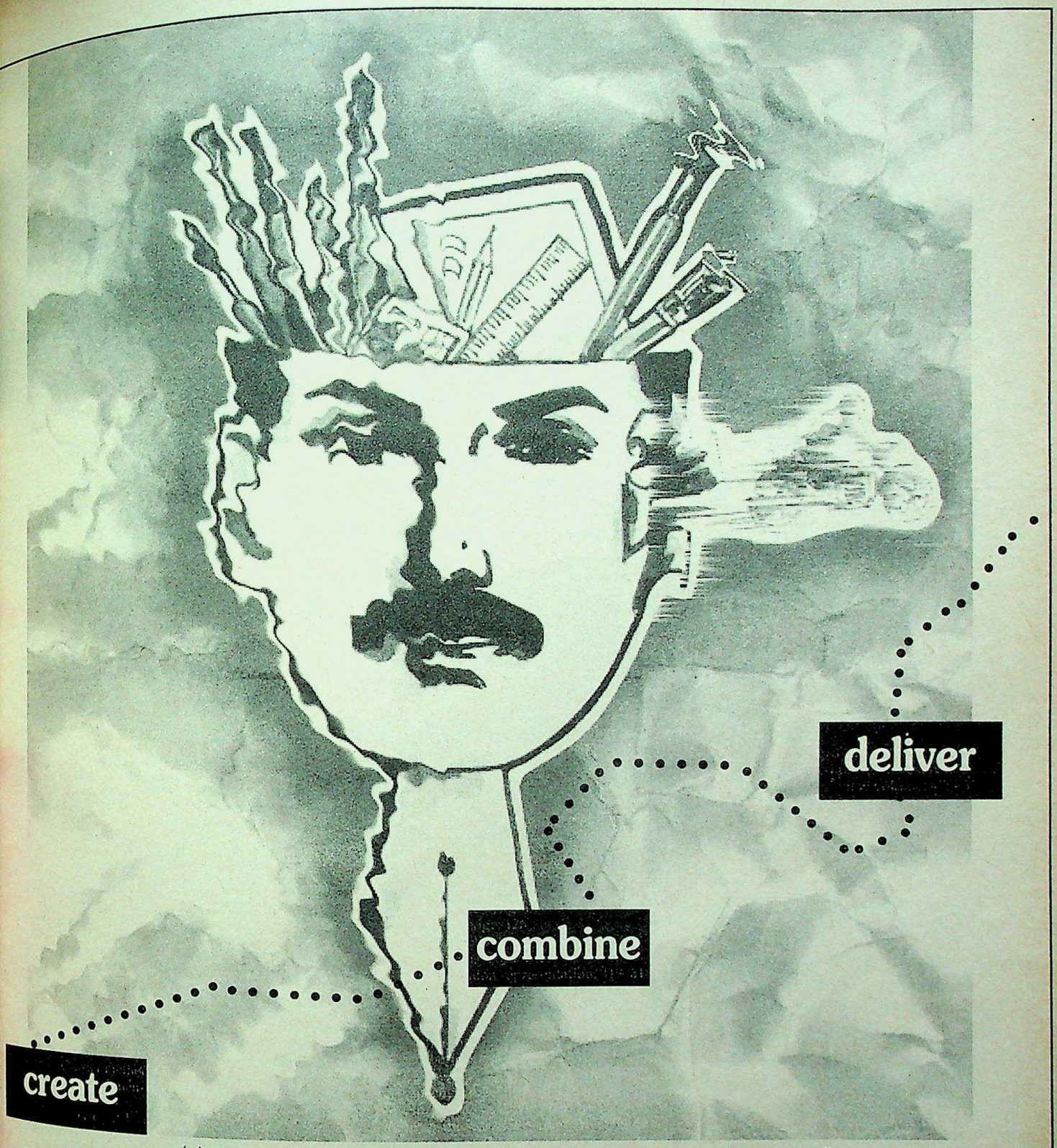
Take a good look at the screen shot of the interface and let us get started.

Begin a new project and set the form properties as follows:

```
BorderIcons = [biSystemMenu, biMinimize]
BorderStyle = bsSingle
Caption = 'PCQ Labs Bitmap Viewer'
```

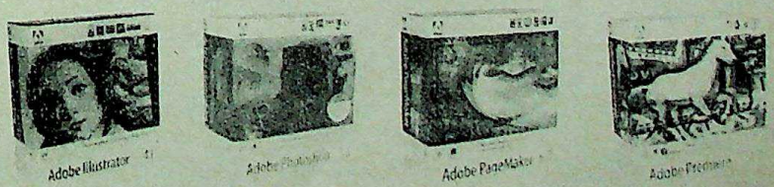
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



(An example of what a combination of human creativity and Adobe softwares can do!)

Adobe



AABHA
SYSTEMS SERVICES SOLUTIONS

AABHA SOFTWARE
(A Division of Aabha Management Systems Pvt. Ltd.)
22 A, MIG, Katwaria Sarai, Opp. Qutab Hotel, New Delhi - 110 016.
Ph. : 686 8923, 66 1740. Fax: 696 8767. E-mail: infotek.aabha@axcess.net.in

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
Font.Color = clNavy
Font.Name = 'MS Sans Serif'
Name = MainForm
Position = poScreenCenter
```

The BorderIcon property determines which icons appear on a form's title bar. The property is of type TBorderIcons. The TBorderIcons type is a set of TBorderIcon which in turn is an enumeration.

```
TBorderIcon = (biSystemMenu, biMinimize,
biMaximize);
TBorderIcons = set of TBorderIcon;
```

As far as fonts go MS Sans Serif is my favorite. You may choose the one you like. Just keep in mind that the font you choose should be available on a typical Windows installation. Save the project. Name the unit file as MAIN.PAS and the project as BITVIEW.DPR.

The Icon Bar: Instead of using a menu, we use an Icon bar to control the application. Place a panel component on the form and set its properties as follows:

```
Align = alTop
Caption = ''
Name = IconBar
```

The Panel component serves as the Icon bar. Click on it to select it and place two speed buttons, a check box and a Bit button within it. Name the speed button on the left CopyBtn. We will use it to copy the currently displayed image to the clipboard. Name the other speed button ShowAllBtn. A click on it will display all bitmap images on the currently selected disk.

Select appropriate gyphs (?) for the speed buttons and set their properties as follows:

```
CopyBtn

Hint = 'Copy Image|Copy Image to Clipboard'
ShowHint = True

ShowAllBtn
Hint = 'View All|View all bitmaps on
current drive'
ShowHint = True
```

We use the check box to optionally stretch a displayed image and fit it into the display area. Set its Caption property as follows:

```
Caption = 'Stretched'
```

The Bit button closes the application. It will do so without the need for you to write any code if you set its properties as follows:

```
Hint = 'Close|Close Application'
ShowHint = True
Kind = bkClose
```

Status Panel: The Status Panel in the Bitview application displays help hints, the Copyright notice (big deal!) and the name of the file currently displayed in the viewer. To create it, place another panel component on the form and set its properties as follows:

```
Align = alBottom
Alignment = taLeftJustify
BevelInner = bvLowered
Name = StatusPanel
```

Click on the Status Panel to select it and place another panel component within it. We will display the name of the currently selected bitmap image file within this panel. Set its properties as follows:

```
Align = alRight
Alignment = taLeftJustify
BevelInner = bvLowered
BevelOuter = bvNone
Name = FileNamePanel
```

Bitmap Files List: We use a ListBox component to display the list of BMP files in the currently selected directory. Place one on the form and set its properties as follows:

```
Align = alBottom
Name = BitmapList
```

Navigating Directories: Below the Icon bar and to the left of the client area we have three components stacked one on top of the other. From the top a label component, a directory list box component and a drive combo box component. The three of them together provide the mechanism that lets a user navigate the directory tree and select a directory. You don't need to write a word of code to activate the mechanism.

When was the last time you made a true friend

Childhood is a time for joy and wonder. A thousand questions. And ever so many memories...
Birthday' 'estivals, schools and friends.
In the innocent journey across life there is the happiness of a secure home, loving parents, understanding brothers and sisters.
Yet, today there are many children in India who have never experienced the joy of a loving family. Children like yours, but ... orphaned ... abandoned ill-treated, left without hope. They need your help. They deserve a future.

Make a friend at SOS Children's Villages
Share your happiness with children who need it. Develop a bond that nurtures and evolves into a lifelong friendship. Give them a cause for joy.

SOS: A Vision in Action
SOS Children's Villages of India is a nationwide voluntary, non-profit, child welfare organisation. It is the aim of SOS to make every child self reliant through its Children's Villages and Bal Sadans.
As against the old restrictive and isolated system of orphanages SOS provides a cheerful and constructive environment to grow up in. A Mother takes care of 8 or 9 children in an independent home. 10 or 20 such family units constitute an SOS Village. Today there are 26 SOS Children's Villages and many Bal Sadans, Schools, Rural Extension Programmes and outreach schemes throughout the country.

You can do something for these children NOW as an individual or as an organisation.

I want to:
- ☐ Sponsor a child/become an SOS Village Sponsor Rs. 200/- per month/Rs. 2400/-annually.
- ☐ Educate a child, by contributing to the SOS Educational Corpus Fund: Rs. 30/- per month Rs. 360/- annually
- ☐ Become a friend of SOS: Rs. 15/- per month Rs. 180/- annually.
- ☐ Give a donation.
  Contributions may be made as convenient — monthly, quarterly, half-yearly or yearly.

I am instructing my Bank/enclosing a crossed cheque/demand draft/M.O in favour of SOS Children's Villages of India.

Name Mr/Mrs/Ms _____
Address _____
_____
Profession _____ Date _____
Birthday _____ Tel _____

SOS CHILDREN'S VILLAGES OF INDIA
A-38, Kailash Colony, New Delhi-110 048

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Just set their properties as follows:

```
Directory List Box
DirLabel = Label1
Drive combo
DirList = DirectoryListBox1
```

Displaying the Image: To the right of the form's client area, we have a panel component, within it is a Scroll Box component and within it an image component. The panel component just serves as a container frame. We'll look at the need for a scroll box component when we start writing the code. The image component is where we actually display the image. First place the panel component and set its properties as follows:

```
Align = alRight
BevelInner = bvLowered
BevelWidth = 2
```

With the panel component selected place a Scroll Box component within it and set its properties as follows:

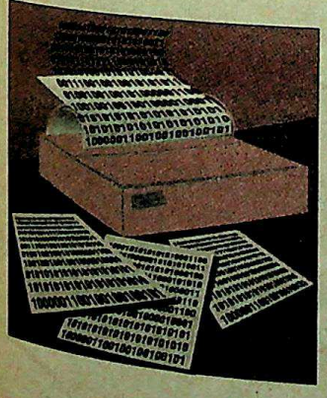
```
Align = alClient
BorderStyle = bsNone
```

With the panel component selected place an image component within it and set its properties as follows:

```
Align = alClient
```

Writing The Code

Below the uses section in the interface part place the following piece of code:



```
const
  CopyrightStr = 'PCQ Labs 1995-96';
```

In the private section of the MainForm class declare a method procedure

```
private
    procedure DisplayHint(Sender:
TObject);
```

Define the procedure in the Implementation section as follows:

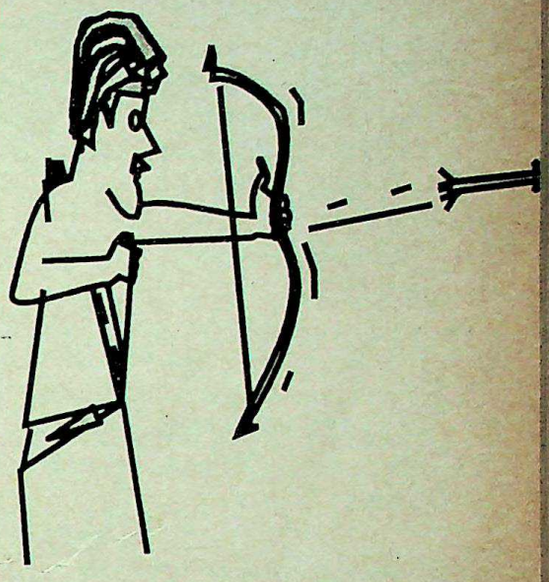
```
procedure TMainForm.DisplayHint(Sender:
TObject);
begin
  with StatusPanel do
    if Application.Hint <> '' then
      Caption := Application.Hint
    else
     {Display the copyright string
constant}
      Caption := CopyrightStr;
end;
```

This creates a mechanism for displaying hints on the Status Panel. To activate the mechanism write the following event handler for the OnCreate event of the form:

```
Application.OnHint := DisplayHint;
```

Next, in the imlementation section, we write a procedure that takes two arguments—the name of a Directory and a pointer to a List Box component. The code recursively searches through the directory and adds any BMP files that it finds to the ListBox component to which it received a pointer. Delphi makes this easy with the functions FindFirst and FindNext and the procedure FindClose. All three are defined in the SysUtils unit. Go through the online help for more details on using these.

```
procedure GetBitmaps(SearchDir:
TFileName; ListBox:TListBox);
var
  SearchRec: TSearchRec;
  RetVal: Integer;

begin
  RetVal := FindFirst(Concat(SearchDir,
'\*.*'), faAnyFile, SearchRec);
  try
    while RetVal = 0  do
    begin
      if SearchRec.Name[1] <> '.' then
        if SearchRec.Attr and
faDirectory > 0 then
          GetBitmaps(SearchDir + '\' +
```

Four things **do not** come back -- the spoken word, the sped arrow, the past life, and the **neglected oppurtunity.**

Please turn over

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
SearchRec.Name, ListBox)
        else if pos('.BMP',
SearchRec.Name) > 0 then
          ListBox.Items.Add(SearchDir +
'\' + SearchRec.Name);
      RetVal := FindNext(SearchRec);
    end;
  finally
    FindClose(SearchRec);
  end;
end;
```

We channel call to GetBitmaps through another supporting function—ShowBitmaps. Place it right below GetBitmaps

```
procedure ShowBitmaps(SearchDir:
TFileName; ListBox:TListBox);
begin
  ListBox.Clear;
  Screen.Cursor := crHourGlass;
  GetBitmaps(SearchDir, ListBox);
  Screen.Cursor := crDefault;
end;
```

Responding to changes in the directory: We need to rebuild the list of bitmap files displayed in the BitmapList whenever there is a change in the currently selected directory. To do this we write an event handler for the OnChange event of the Directory List Box. The event handler calls ShowBitmaps passing it the new directory and a pointer to the BitmapList, the ListBox component at the bottom.

```
procedure TMainForm. Directory ListBox1
Change(Sender: TObject);
begin
  Image1.Picture := nil;
  FileNamePanel.Caption := '';
  with DirectoryListBox1 do
    {if we are not dealing with the root
directory}
    if Directory[Length(Directory)] <>
'\' then
      ShowBitmaps(Directory,
BitmapList);
end;
```

The contents of BitmapList also need to change in response to a click on the ShowAll speed button on the Icon bar. We implement this functionality with the following event handler for the OnClick event:

```
procedure
TMainForm.ShowAllBtnClick(Sender:
TObject);
begin
  with DirectoryListBox1 do
  begin
    Directory := Copy(Directory, 1, 3);
    ShowBitmaps(Copy(Directory, 1, 2),
BitmapList);
  end;
```

Displaying the image: When you click on any file name in the Bitmap List, BITVIEW loads the file into the image component. The following code in the event handler for the OnClick event does this. Notice the use of the ExtractFileName function to extract the file name from its full path. Also note how the file name is displayed on the Status Panel by setting the caption property of FileNamePanel.

```
procedure TMainForm.BitmapListClick
(Sender: TObject);
begin

Image1.Picture.LoadFromFile(BitmapList.
Items[BitmapList.
Item
Index]);
  FileNamePanel.Caption :=
    ExtractFileName(BitmapList.Items
[BitmapList. ItemIndex]);
  FormResize(Sender);
end;
```

The call to FormResize is interesting. It illustrates how to call another event handler from with an event handler. Though the Sender argument is not used by the FormResize event, we need to provide it to conform to the syntax for the event handler.

The call to the FormResize event handler ensures that scroll bars in the Scroll Box component appear and disappear depending on the size of the image displayed in the image component within it. The event handler for the FormResize event handles this with a simplicity and grace that is typical of the Delphi environment.

```
procedure TMainForm.FormResize(Sender:
TObject);
begin
  if not Image1.Stretch then
    with ScrollBox1 do
    begin
      HorzScrollBar.Range :=
Image1.Picture.Width;
      VertScrollBar.Range :=
Image1.Picture.Height;
    end;
end;
```

The code first ensures that the Check Box on the Icon Bar, labelled Stretch, is not checked. It then sets the Range property the horizontal scroll bar to a value equal to the Width of the picture in the Image comoponent and the range property of the vertical scroll bar to a value equal to the height of the picture in the Image component.

When you set the range of the Horizontal Scroll Bar to a value greater than the width of the Image component that the scroll box encloses, Delphi displays the scroll bar. Otherwise it removes it. So, if the picture width exceeds the width of the Image component a horizontal scroll bar appears! Otherwise it doesn't. The same logic holds for the Vertical Scroll bar.

Now let's see how we stretch the picture to fit within the image component. Create a handler for the OnClick event of the Check Box. You should be able to follow the logic.

```
procedure
TMainForm.CheckBox1Click(Sender:
TObject);
begin
  if CheckBox1.Checked = True then
    with ScrollBox1 do
    begin
      HorzScrollBar.Range := 0;
      VertScrollBar.Range := 0;
      Image1.Stretch := True;
    end
  else
  begin
    Image1.Stretch := False;
    FormResize(Sender);
  end;
end;
```

The OnClick event handler for CopyBtn on the IconBar copies the image to the clipboard. It could have been any simpler.

```
procedure TMainForm.CopyBtnClick(
TObject);
```

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
begin
  Clipboard.Assign(Image1.Picture);
end;
```

That is all there is to it. Compile and run your project to check it out.

Creating a Splash Screen

By default, a Delphi application, at the time of loading, auto creates all the forms it uses. You can, however, choose to create a form manually either at load time or at any subsequent time. To do this use the Options | Project menu option. In the Forms page of the dialog box, take the form out of the list of forms which the application autocreates. We will use this feature for creating a splash form.

But first let's create the splash form. Choose File | New from the menu. Put a Panel component on the form, set its Align property to alClient and delete the Caption. Within the Panel component place an Image component and set its Align property to alClient. Assign a picture of your choice to the Picture property of the Image component. Resize the form to enclose the picture. Set form properties as follows:

```
BorderStyle = bsNone
Position = poScreenCenter
Enabled = False
Name = SplashForm
```

Setting BorderStyle to bsNone removes the form caption and makes the form non-resizeable. Setting Position to poScreenCenter displays the form in the center of the screen. Finally, setting the Enabled property to False ensures that the form does not respond to user input. Save the form and name the unit as SPLASH.PAS.

Having made a splash form we need to display it at the start of the application. For this, you need to do something that you would ordinarily never do—modify the project file. Actually, Delphi manages this file automatically. First remove the splash form from the autocreate list. Now open the project file. Since you have removed the splash form from the autocreate list you will have to write code manually to display it. Modify the file so that it looks like:

```
program Bitview;

uses
  Forms,
  Main in 'MAIN.PAS' {MainForm},
  Splash in SPLASH.PAS' {SplashForm};

{$R *.RES}

begin
  SplashForm :=
TSplashForm.Create(Application);
  try
    SplashForm.Show;
    SplashForm.Update;
    Application.Title := 'PCQ Labs
Bitmap Viewer';
    Application.CreateForm(TMainForm,
MainForm);
  finally
    SplashForm.Hide;
    SplashForm.Free;
  end;
  Application.Run;
end.
```

Notice the use of the try..finally construct to ensure that the splash form is closed and the associated memory freed even if an error is encountered while opening any of the other application forms.

Once again compile and run the project. This time you will see the splash form appear briefly before the main form opens. However, the appearence will be brief. With a large application that has many forms, the splash form would display for a much longer period as the application goes about creating all the forms and the objects within them. However, since Bitview has only one other form, the splash screen appears and disappears.

To make the splash form display for a longer duration rewrite the OnCreate event handler for the form as follows:

```
procedure TMainForm.FormCreate(Sender:
TObject);
var
  CurrentTime: LongInt;
begin
  Application.OnHint := DisplayHint;
  CurrentTime := GetTickCount div 1000;
  while ( (GetTickCount div 1000) <
(CurrentTime + 4) ) do
    ;
end;
```

VK Thakur is a PC Quest contributing editor and a Delhi-based database and information consultant. You can reach him at kuku.thak@axcess.net.in or as THAK on PCQ Online.

Coming together is a beginning, keeping together is **progress** and working together is **success.**

Your only chance to own the most prestigious name in multimedia training.

★★ ★ ★ ★★★★ ★ ★★

In case you are interested in opening a **"MULTIMEDIA FRANCHISE TRAINING CENTRE"** in your city.

CONTACT:-

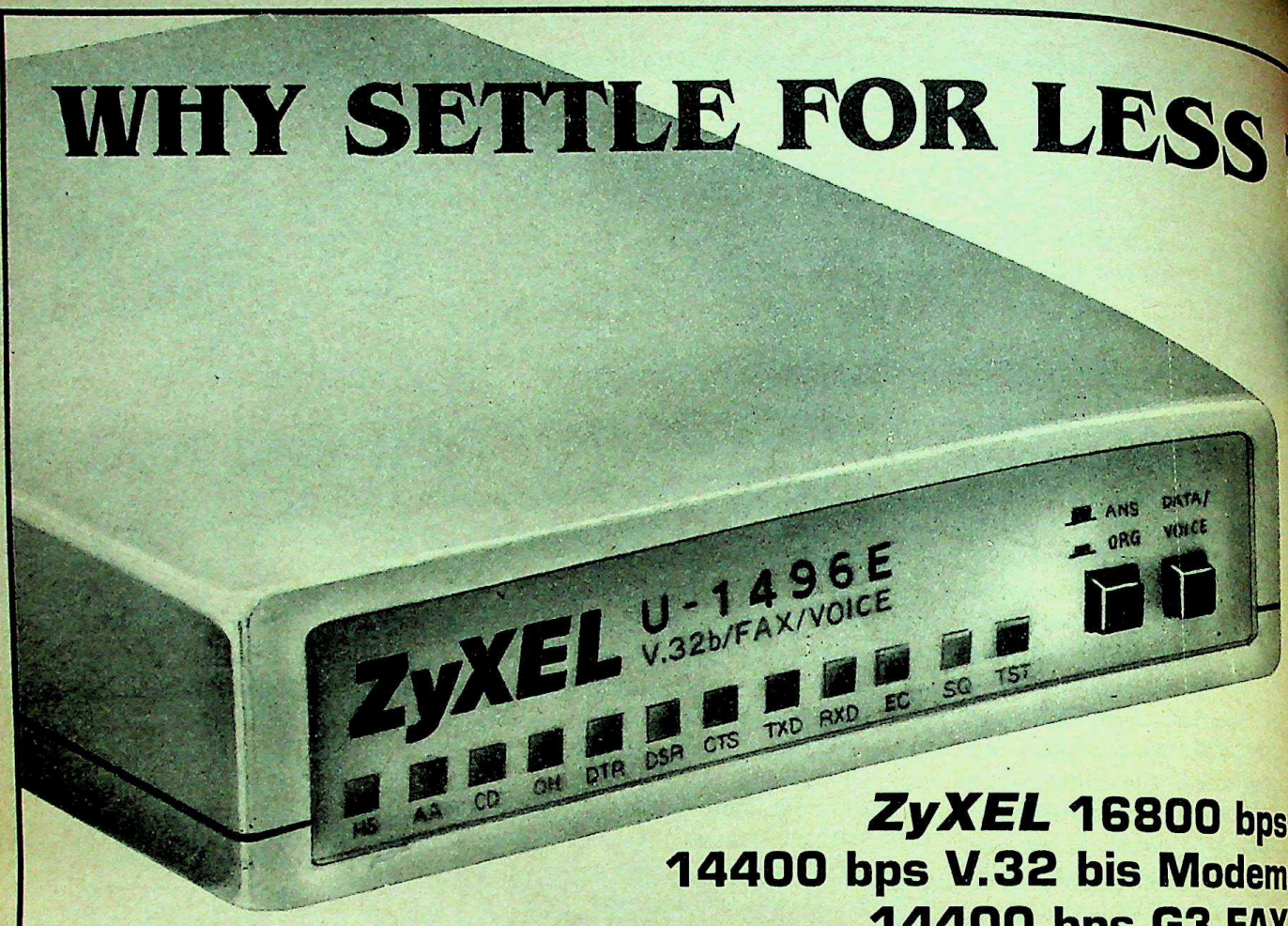
SATYAM Graphics Pvt. Ltd.
B-61,Kalkaji,New Delhi-110019,
Ph:- 6228217,6478760,6483187,
Fax:- 011- 6438780

News:- SATYAM'S **"MOST EFFICIENT CENTRE"** AWARD GOES TO **"JAIPUR CENTRE".** **"CONGRATULATIONS."**
Ph:- 381922

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHY SETTLE FOR LESS ?



ZyXEL 16800 bps
14400 bps V.32 bis Modem
14400 bps G3 FAX
Digitized Voice capability
Excellent for poor line conditions

EDITOR'S CHOICE 1994

TEC Approved

TWO YEARS WARRANTY

PLUS MORE FEATURES :

- ***ZyXEL*** 16800 bps ultra high speed data transfer
- Automatic data / fax call detection
- Fast rate renegotiation in addition to Auto fall-forward and fall-back
- Special ***ZyXEL*** mode for lines with high impulse noise
- Line condition monitoring
- V.42 bis / MNP5 data compression with upto 57600 bps throughput
- V.42/MNP4 error control
- Asynchronous or synchronous
- Advanced voice mail capability - upto 1000 voice/fax/data mail boxes. Fax-on-Demand & Voice Announcements.

Distributed & supported by :

WANLANd 231 Kevtuo Industrial Est., Kondivita Road, Andheri (E), Bombay 40
Tel: (022) 8353636. Fax: (022) 8367765, (022) 3871790

ZyXEL **DEALERS:** **Ahmedabad: KARNET. Tel: (079) 7475244.**
Baroda: KAS On-line. Tel: (0265) 342362. **Indore:** Oracle Computers. Tel: (0731) 533240. Fax: (0731)533241., **Trivandrum:** Manickam Communications and Sys. Pvt. Ltd.. Tel:(0471)462116. Fax: (0471)463702., **Nagpur:** Netcom Systems, Tel: (0712)543747. Fax: (0712)530497

DEALER INQUIRIES FROM UNREPRESENTED AREAS SOLICITED.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

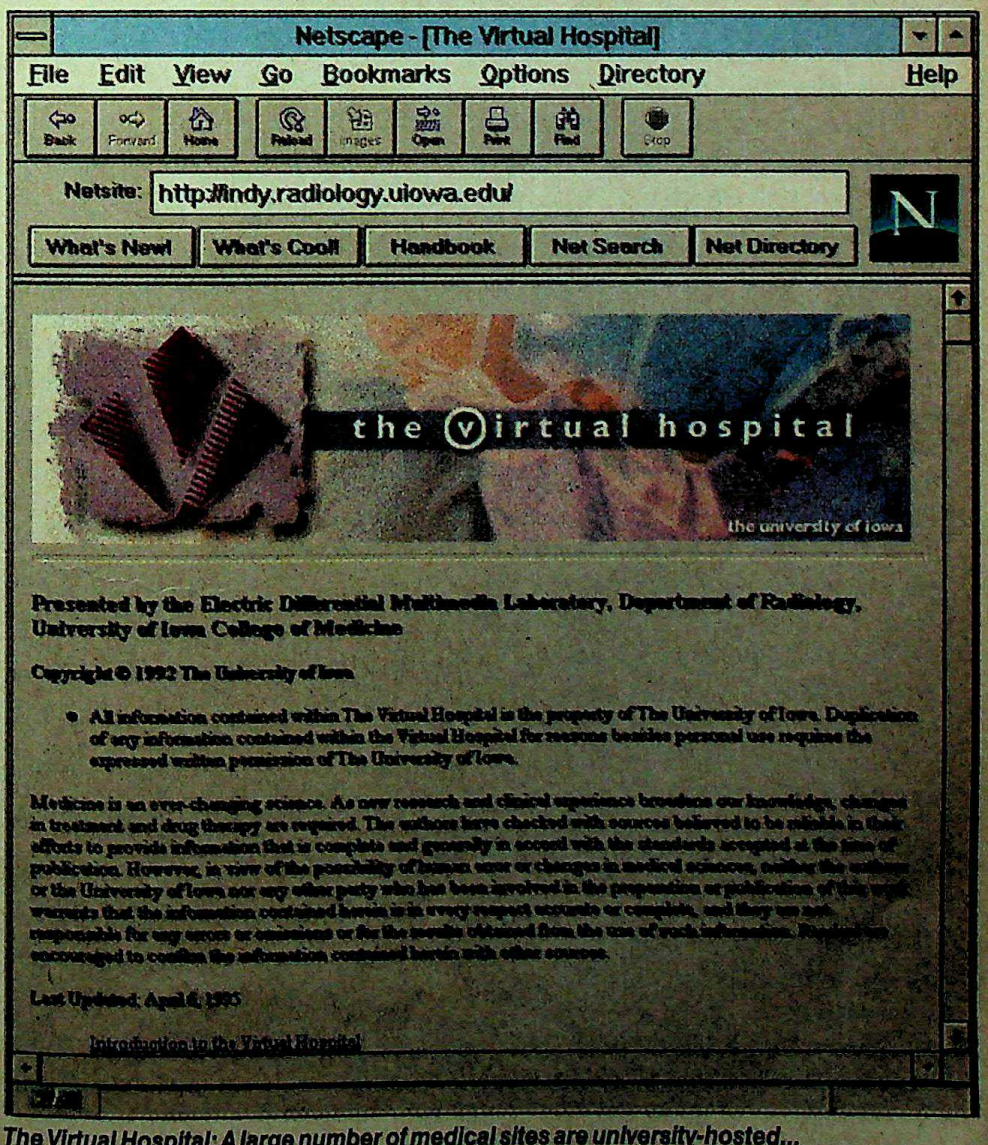
MEDICINE Internet

You'll find doctors all over the Web's thousand-plus medical sites. But to get serious information online, you need to look hard

Connectivity right
s the globe, the ability to share informa-
and ideas. Just what medicine and the
ences needed.
The Internet has linked doctors, healthcare
ers and patients, accelerating medical
rch and lending a new dimension to
care. India has only recently gone
proper to the Internet, and many
s are eager to find out how this will
them in their work.
he list of what is possible on the Internet
y long indeed. From job opportunities
edicos to online consultation with spe-
s, from the newest in imaging tech-
s to link ups with hospitals.
arly, medical information abounds on
ternet. But how do you get to it?
obvious way of searching for medical
ation is through the search engines on
ternet.
ost search engines such as Yahoo, Lycos,
y, Excite, Infoseek, AltaVista, etc, will
medical and health category with lists
ces, hospitals, health topics, news,
, indices and links to medical sites.
Health reference for example, in-
specific topics on Women's Health,
t issues, or Workplace, but also gen-
categories like Medicine that go on to
medical specialties ranging from Acu-
ge to Veterinary Sciences. Other cat-
s are Diseases, Fitness and Drugs. The
Lycos Point Survey also has medical categories: Family Medicine, Mental Health, Professional Medicine, Government Policy, Nutrition, and others.

Finding Your Way

Yet whether you will eventually find what you are looking for is another matter. Several search engines failed to come up with any match at all for an



The Virtual Hospital: A large number of medical sites are university-hosted...

CC-0. Jia Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

entire, legitimate field of medicine that I was interested in: psychogeriatrics. Eventually, I did find six matches through Lycos, but these were abstracts on Parkinson's Disease and related problems and not really about psychogeriatrics as a field or even about any other topics within the field.

Using other search words, I still failed to come up with the psychological aspects of caring for the elderly. Looking for information on eye-related problems such as cataract induced by the drug Clozapine, through the search engines, I found a smattering of abstracts, none of them very recent, and once again, not quite what I wanted. Showing off the Internet to four doctors, each of whom then asked me to look for something, I was unable, much to my embarrassment, to find anything on the specific topics they asked for.

Should you be lucky enough to find the information you want, you next have to deal with the problem of getting to the full text of an article—not always possible, especially free of charge.

This brings us to the plethora of medical and health journals on the Internet. They're all there...somewhere. Some are prominently listed, as are medical and health magazines and newsletters. Some of these will have separate Web sites of their own—as in the *British Journal of Medicine*. The question is whether you can access them.

Most journals and their archives are accessible only by subscription (usually paid in US$), and some would require too much time and effort to reach access. In a list of magazines and journals, I found an old favorite of mine, *Psychology Today*. Much to my disappointment, it wasn't even clickable.

Anyone looking for articles or research reports, especially the latter, must be extremely careful about the sources of these. While scientific journals have strict rules about what they publish, scrutinizing methodological issues thoroughly before publishing, the Internet is an anarchy, where anyone can put up whatever information they like.

The authenticity of medical research and the research they were based on is impossible to determine or control. Looking for information on sleep

Medical Web Sites

World Wide Web Virtual Library: Biosciences - Medicine
http://golgi.harvard.edu/biopages/medicine.html
Whole Internet Catalog - Health and Medicine
http://nearnet.gnn.com/wic/med.toc.html
HealthNet
http://hpb1.hwc.ca/healthnet/#medapp
HospitalWeb
http://dem0nmac.mgh.harvard.edu/hospitalweb.html
Interactive Medical Student Lounge
http://falcon.cc.ukans.edu:80/~nsween/
Journal of Medical Imaging
http://jmi.gdb.org/JMI/ejourn.html
US National Library of Medicine (NLM)
http://www.nlm.nih.gov/
Your Health Daily
http://ny/syn.com/medic/
OncoLink
http://cancer.med.upenn.edu/
Virtual Hospital
http://indy.radiology.uiowa.edu/VirtualHospital.html
Visible Human Project
http://www.nlm.nih.gov/extramural.research.dir/visible_human.html
WebPath:Internet Pathology Laboratory
http://www-medlib.med.utah.edu/WebPath/webpath.html
Cochrane Collaboration
http://hiru.mcmaster.ca/cochrane/default.htm
Cool Medical Site of the Week
http://www.hooked.net/user/wcd/cmsotw.html
Physician's Guide to the Internet
http://www.webcom/pgi/
The Interactive Patient
http://www.medicus.marshall.edu/medicus.htm
Physicians Online
http://www.po.com/
Medical Web
http://www.medical-web.com/
Med Nexus
http://www.mednexus.com
World Health
http://www.world_health.net/

PCQ Lab Notes

How To Get Onlin

To connect to these sites featured, need an Internet account from V (or ERNET, though that is not a able to most individuals or co nies). The TCP/IP account gives graphical access for Rs 16,000. shell account gives you charac mode access for Rs 6,000. (First-y fees, 250 hours or one year, which is earlier.)

The TCP/IP account with a gra cal browser is the most elegant, given the poor usability of VSNL's up TCP/IP account, the Rs 6,000 account is recommended. Be warn however, that the low availability VSNL dial-up lines means that probably will find the lines busy d ing daytime and evening hours; ea mornings are best.

Reader Query Service #E

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

I want Pentium® technology without the extra cost.

With the trouble-free HP Vectra PCs, problem solved.

Affordable

3-year warranty

intel inside pentium PROCESSOR

*5/75, 8MB/420MB with SVGA Monitor, 3 year comprehensive warranty, including 1 year on-site warranty- Rs.1,09,500**

s Vectra VL 3 PC, you
ave Pentium®
g for what you have
ost 486 PCs. And for
e power, the new HP
Series 4 PC breaks
performance barrier.
e with the Intel
chip and a cartload
ing features.

When it comes to business, HP Vectra PCs represent trouble-free computing across the globe. Pre-installed with MS-DOS and Windows for Workgroups so you can be up and running straight away, saving time. With industry leading 3 year warranty, and down to earth pricing, HP Vectra guarantees great value.

For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST at (011) 6226420** from your fax machine or touch-tone telephone, and request document ID number 6369.

HEWLETT PACKARD

Packard India Ltd., Paharpur Business Centre, 21 Nehru Place, New Delhi-110 019. Tel : 6472311, 6472328-30.
Dealers : CMS Computers Ltd., Bangalore : Tel : 5586790. Bombay : Tel : 2851580. Calcutta : Tel : 408949. Delhi : Tel : 6912036. Hyderabad : Tel : 848336.
Electronics Corporation Of India Ltd., Computer Group, Bangalore : Tel : 2267082. Bombay : Tel : 4227492. Calcutta : Tel : 2991145.
Hyderabad : Tel : 620483. Madras : Tel : 4349620. Godrej Trading & Services Co. Ltd., Bangalore : Tel : 2216487. Bombay : Tel : 2049663.
Delhi : Tel : 6846331. Hyderabad : Tel : 201876. Madras : Tel : 6257331. • HCL Hewlett-Packard Ltd., Bangalore : Tel : 5584091.
Calcutta : Tel : 2476120. Delhi : Tel : 6444293. Secunderabad : Tel : 814525. Madras : Tel : 8276242.
Computers Ltd., Bangalore : Tel : 2264999. Bombay : Tel : 8377300. Calcutta : Tel : 4753872. Delhi : Tel : 6841147. Madras : Tel : 4349661.
Tel : 512494.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

*Intel, Intel Inside logo and Pentium processor logos and Pentium are registered trademarks of Intel Corporation. * Estimated street price. Local taxes and levies extra.*

Digitized by Arya Samaj Foundation Chennai and eGangotri

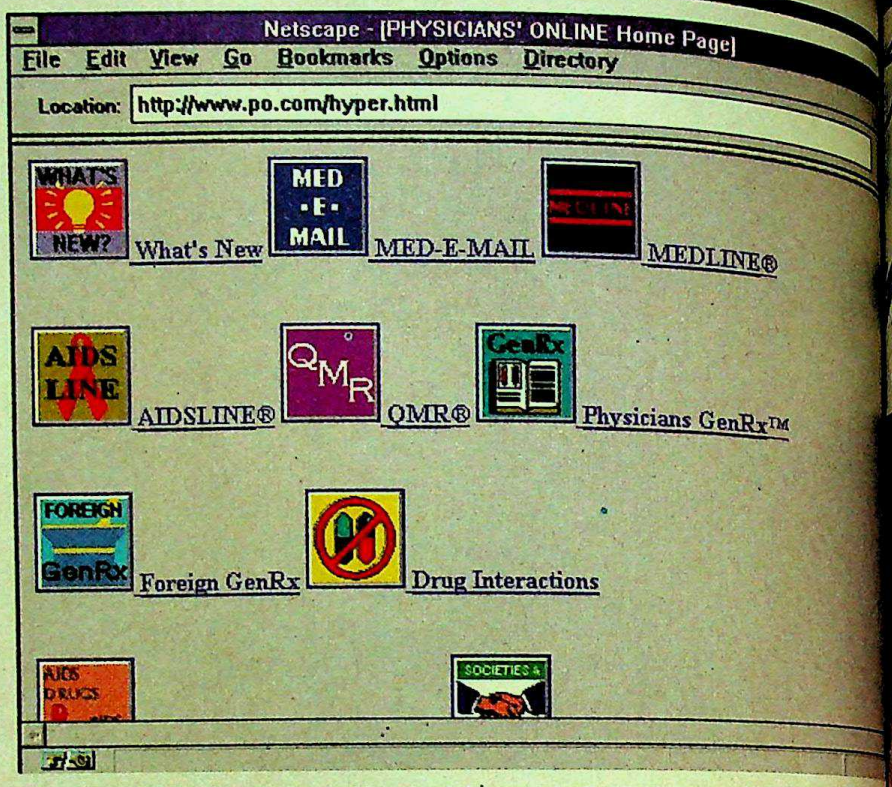
vation, I ended up not with articles of the extensive and carefully controlled experiments that have been going on for years in this field, but something on what reduced sleep did to a student volunteer over a six-week period. At the end of the account, apparently the conclusion was that sleeping less than you need to over a long period *can* have deleterious effects, because by the end of six weeks "not even his girl friend could command his attention"! Probably quite valid, but rather unscientific criteria.

NetQuacks

In the same vein, it's difficult to control the quacks on the Internet. There is little way of ascertaining the credibility of information or indeed, for consulting patients, the advice that they are receiving.

Leaving the search engines to follow links, newbies have to be careful not to be bounced between links indefinitely. Invariably, and necessarily, one medical site will give you links to others, which in turn will give you links to others. As this could go on for quite a while, a good place to get your bearings would be Internet medical resources pages.

One such page is the **Medical Matrix**, a project of the Internet Working Group of the American Medical Informatics Association. The Medical Matrix is meant to be a comprehensive pointer to global resources that can assist in patient care, and is intended to be of help to those who need information on clinical topics in the fastest possible way. Gopher access which allows key word searching, and e-mail to any Internet address is available.

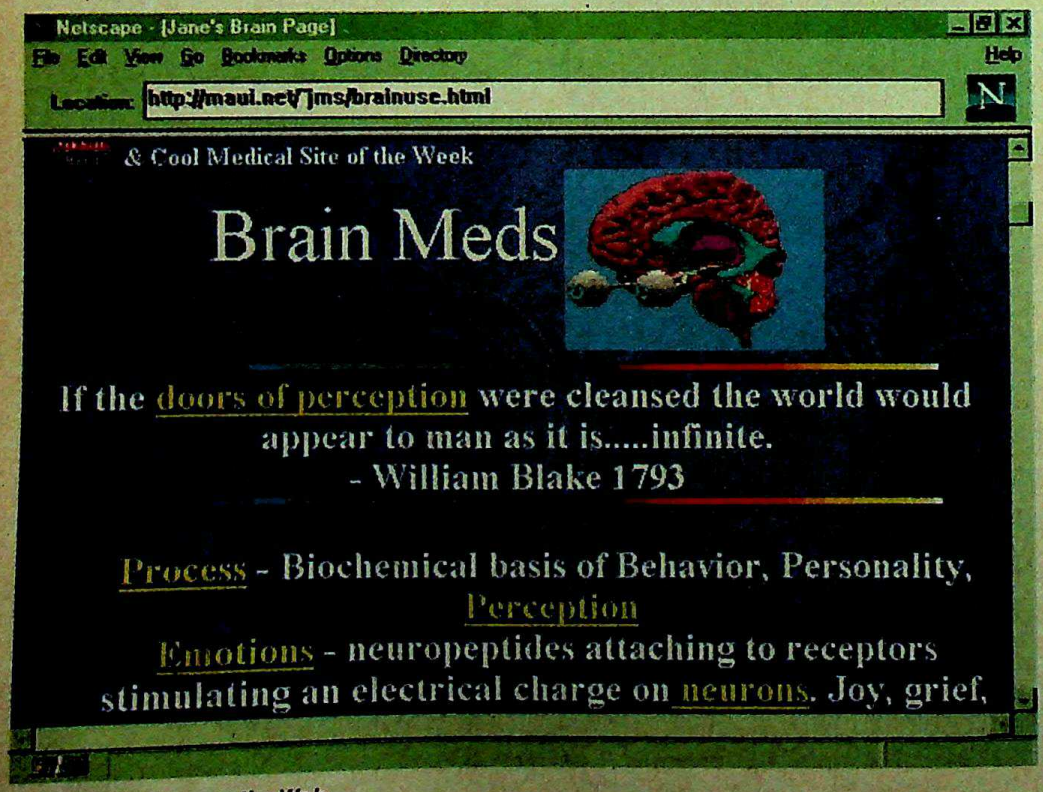


Physicians Online is a site by and for physicians, and a finalist in several interactive services awards

The Matrix has a long list of ... Disease Categorized Information, ... cialty Categorized Information, ... Practice Issues, Medical Educa... CME, Medical Literature Sear... Medical Electronic Journals and ... letters, Basic Medical Sciences, ... cal Virtual Communities, Medical ... ters, Institutions and Healthwor... and many more links.

Galaxy's search engine, apart ... health topics and speciality categ... has a really comprehensive list of ... to sites for medical technologies, ... cal directories, periodicals, ... tion centers, Internet resources, ... ies, organizations, and academic ... tutions. A link to the **Physician's ... to the Internet** can be found here ... includes Internet tips and tut... There is also an extensive guide ... **NIH Database** items which is a ... able index using keywords.

There are several hospital ... on the Internet. **Hospital.Net** is ... formation network, linking ... hospitals, patients and families th... the Internet. It intends to build co... rative environments for scientific ... search and improved patient ... Hospital.Net gives access to ... tion on more than 100 hospitals ... wide, including hospital market...

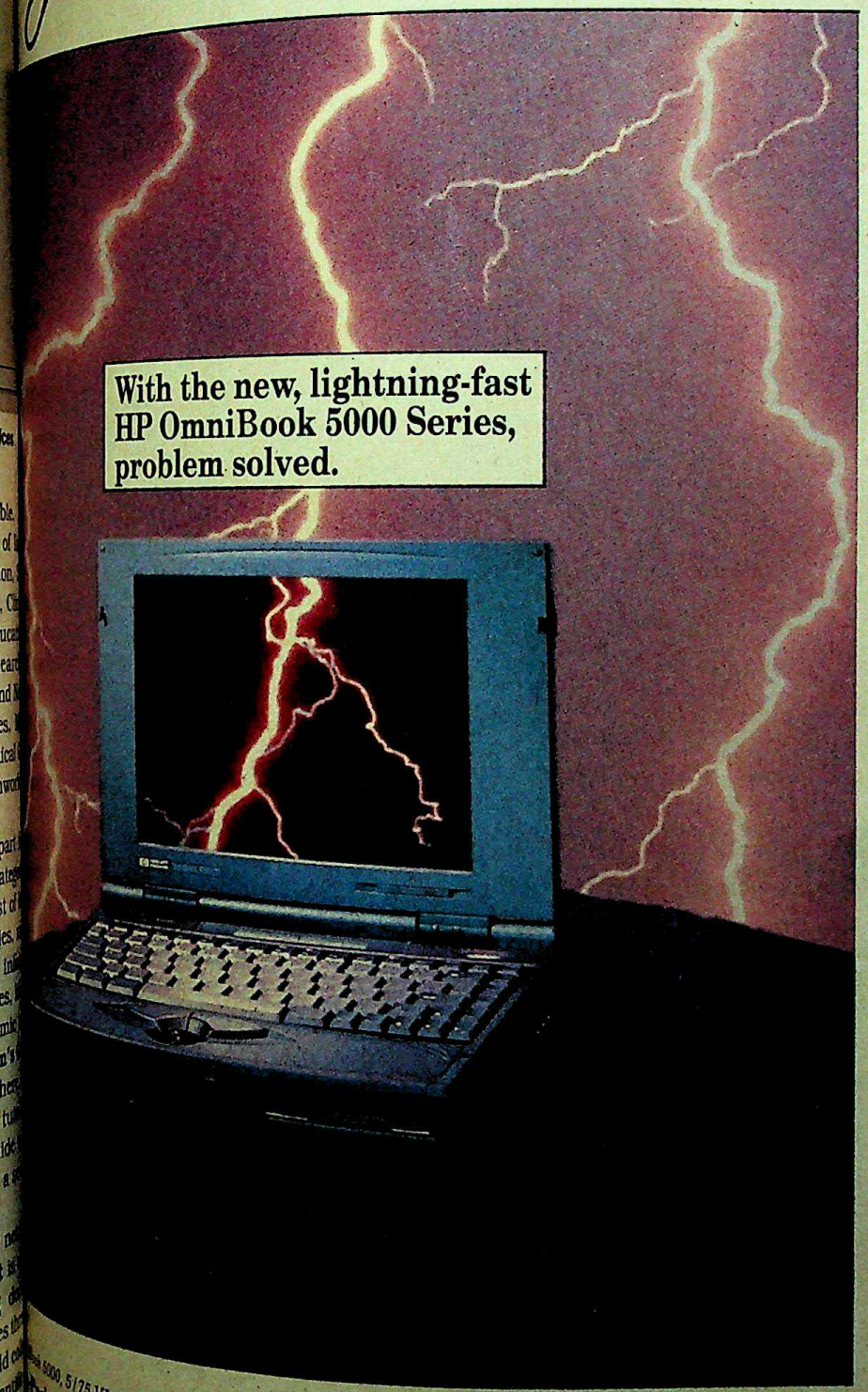


Jane's Brain Page on the Web

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

I want the power to blow my competition away.



With the new, lightning-fast HP OmniBook 5000 Series, problem solved.

When you're working with power-hungry applications, your computer's speed can mean the difference between working or waiting.

intel inside
pentium PROCESSOR

Well, you wait for no one with the power of a 120MHz Pentium® processor at your fingertips.

The new HP OmniBook 5000 Series gives you the fastest processing speed, plus dazzlingly clear video and instant screen refresh for ultra-smooth multimedia presentations. The VGA version supports 64,000 colours; the SVGA version has 800 x 600 resolution.

Flexibility is built in with multiple ports for CD-ROM and tape drives, and you can upgrade the hard disk right up to 1.2GB. Plus you can work immediately thanks to the auto-configure support of Plug & Play.

If you thought the first OmniBooks were fast, this one will blow you away. Who says lightning doesn't strike twice in the same place?

For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST at (011) 6226420** from your fax machine or touch-tone telephone, and request document ID number 90254.

- True instant-on
- PCI Bus Architecture
- L2 Cache (256K)
- IrDA infrared communications
- Two-level password protect
- Rechargeable Lithium-Ion battery
- Optional second battery
- Fast graphics

HEWLETT PACKARD

*5000, 5/75 VL, 8 MB/540 MB, with 1 year warranty- Rs. 2,20,700.**

Packard India Ltd., Paharpur Business Centre, 21 Nehru Place, New Delhi-110 019. Tel : 6472311, 6472328-30.
Dealers : CMS Computers Ltd., Bangalore : Tel : 5586790. Bombay : Tel : 2851580. Calcutta : Tel : 408949. Delhi : Tel : 6912036. Hyderabad : Tel : 848336.
service. Electronics Corporation Of India Ltd., Computer Group, Bangalore : Tel : 2267082. Bombay : Tel : 4227492. Calcutta : Tel : 2991145.
Hyderabad : Tel : 620483. Madras : Tel : 4349620. **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663.
Delhi : Tel : 6846331. Hyderabad : Tel : 201876. Madras : Tel : 6257331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091.
Calcutta : Tel : 2476120, Delhi : Tel : 6444293. Secunderabad : Tel : 814525. Madras : Tel : 8276242.
Computers Ltd., Bangalore : Tel : 2264999. Bombay : Tel : 8377800. Calcutta : Tel : 4753872. Delhi : Tel : 6841147. Madras : Tel : 4349661.
Tel : 512484.

Intel processor logos and Pentium are registered trademarks of Intel Corporation. *Estimated street price. Local taxes and levies extra.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

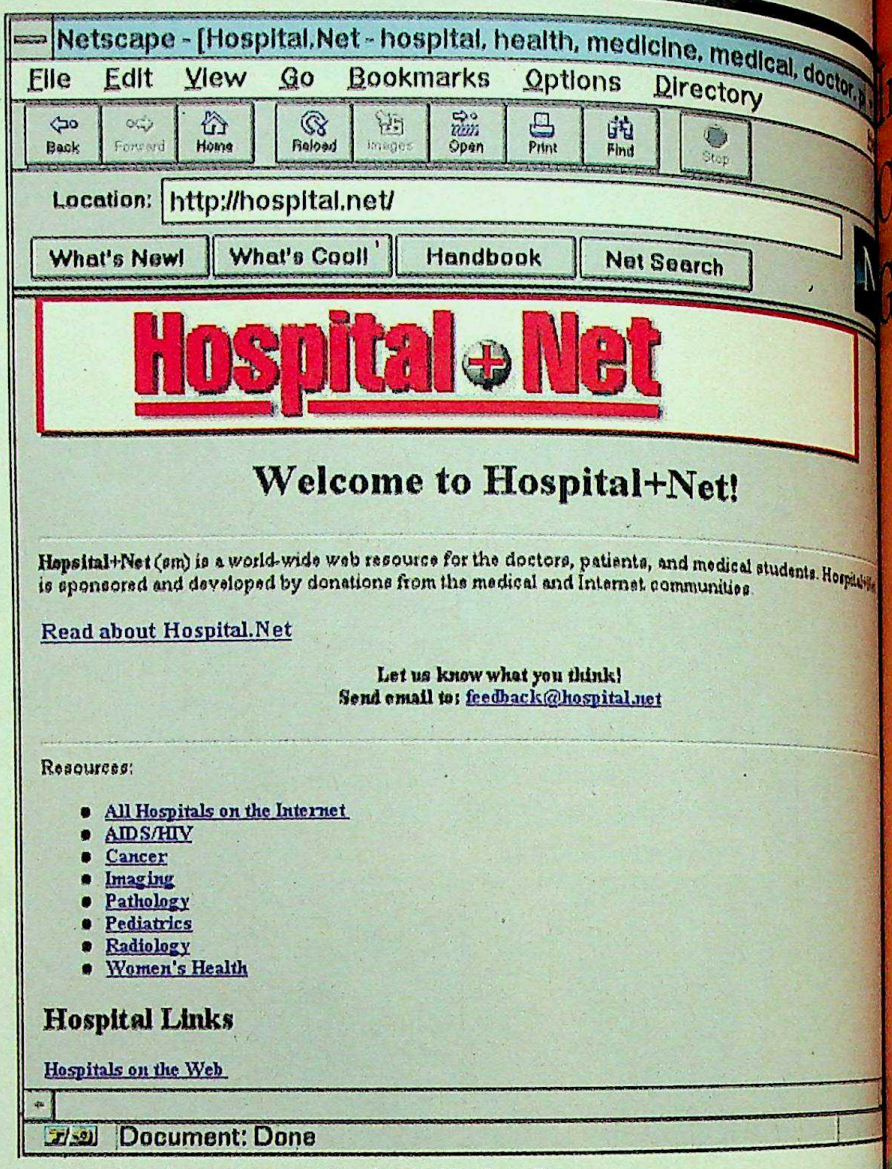
Digitized by Arya Samaj Foundation Chennai and eGangotri

erature, medical research projects, and organizational guides such as hospital maps and guidebooks for prospective patients.

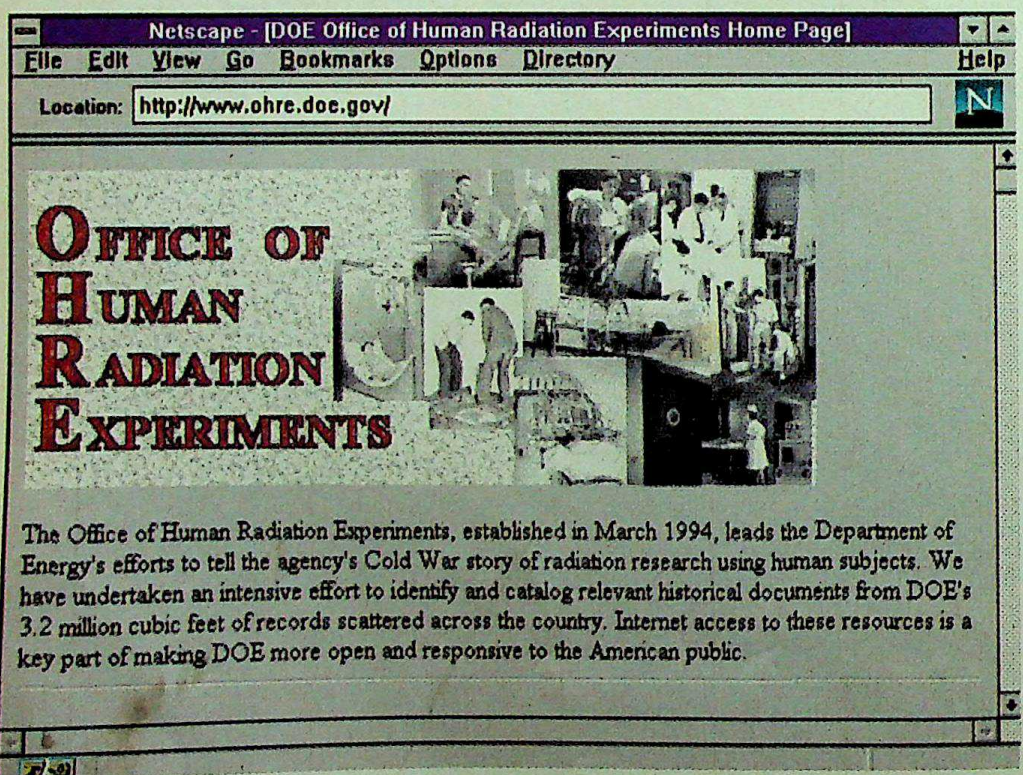
What it plans on is doctors and families being able to query hospital systems from anywhere in the world to get instant updates on a patient's condition. Doctors should be able to consult other doctors all over the world, sharing medical data, charts, and test results. Hospital Net hopes this will lead to better care, more informed decisions, and lower costs for the hospitals and the patients.

A matter for concern though, especially when sharing information, is the confidentiality of patient reports. While some hospitals and their networks are sharply conscious of this and are trying to use technology are available to maintain various degrees of security, whether these measures are enough or not is to be seen.

Physicians Online is a site by the physician for the physician. From here, you can access Medline, Aidsline, Cancerlit and other health networks—for a subscription. There's also the Medical Web, Med Nexus, World Health and a host of others. You will find, however, that many of these sites are advertiser-sponsored and heavily commercial. Some are meant solely for prod-



...while several are voluntary sites, funded by donations



A US government medical research site

uct and services information and ing. Filtering out the advertising c another problem for the doctor se information on the World Wide W

The more serious searches then have to be with gopher resources, a and other methods that allow acce libraries. Many universities and demic organizations are on the ne have libraries and databases c **The National Library of Medicine** world's largest biomedical library over 4.9 million items in all health areas. However, online acce it is apparently restricted to th the United States. The Virtual Hos was one site where I found easy a to topics. Moving into the Psyc classification, I found I had the ous choice of three articles to pick

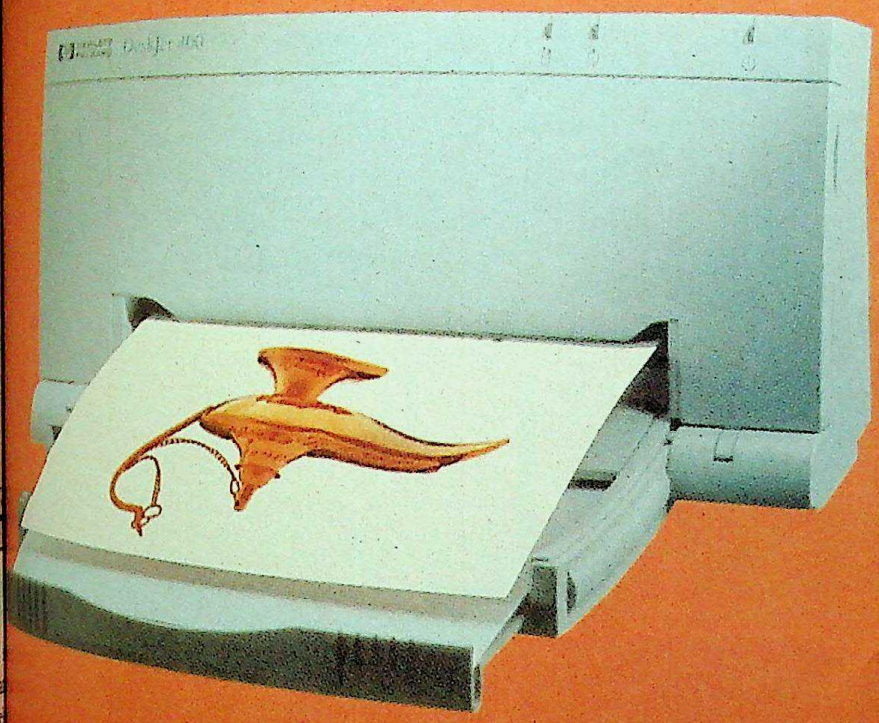
Unfortunately, doctors on the will find that this is true of though not all, sites and data

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

FOR JUST RS. 11,900*

Incredibly low price.
Colour capability.
Great print quality.



HP DJ 400 makes all three wishes come true.

*Maximum Retail Price.

1st
Great quality printing

Rs. Rs. Rs. &
Breakthrough price

HP ColorSmart technology

The HP DeskJet 400 unleashes the magic of world-class printing right on your desktop. For just **Rs. 11,900*** you get incredible print quality from a full-featured Desktop printer. You can even print in colour by simply adding a colour cartridge. And if that's not enough, you get the world leader's promise of quality, reliability and service. With the HP DeskJet 400 you couldn't wish for more.

For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST Fax Service on (011) 6226420** from your touch-tone telephone or fax machine, and request document ID number 90202.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

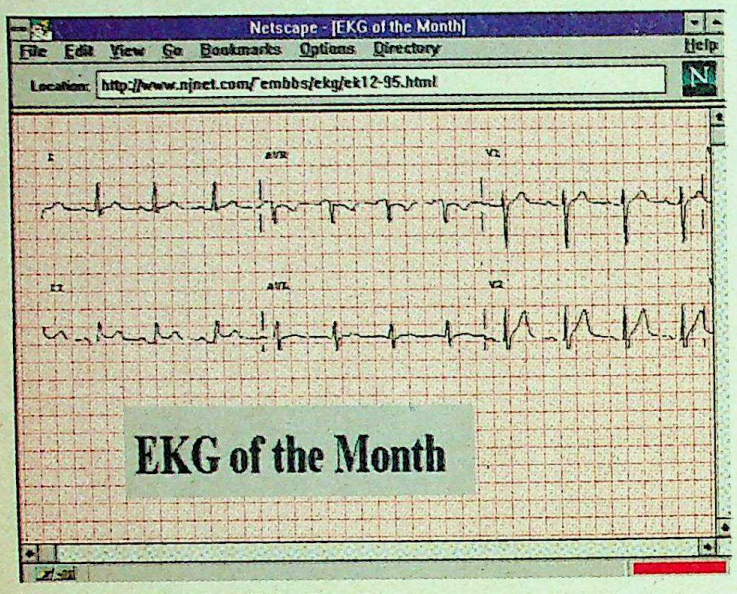
Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.

Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Madras : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Hyderabad : Tel : 3596111. Calcutta : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Calcutta : Tel : 2626984. Bombay : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. • **Kvabro Ltd.,** Bangalore : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 5511808. Bombay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. **Tech Computers Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi : Tel : 6940218. **Wisdom (India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 2532478. Calcutta : Tel : 246674. Hyderabad : Tel : 819134. Madras : Tel : 2353313. Tel : 6923224.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

MAA Bozell-HP-84-96

Digitized by Arya Samaj Foundation Chennai and eGangotri



Pinups for the medically inclined?

What you want, you usually can't get to and what you get, is not necessarily useful—although it may look wonderful. Medical multimedia, imaging and other online visuals goodies found at some sites are thrilling as they appear on your PC, as if magically. The real test of these however, will be when they begin to be put to practical use on a regular basis.

Then there's a **Cool Medical Site of the Week** that links you to different and interesting medical sites. Among these were **Go Ask Alice** (http://www.cc.columbia.edu/cu/healthwise/) a thoroughly popular site from **Healthwise** for interactive question-answer archives on various health problems, particularly sex, relationships and mental-health problems. Another cool medical site is **The Interactive Patient** but I have unfortunately not been lucky enough to access it even *once* over several attempts.

So, is the upshot that there is nothing for the Indian doctor on the Internet?

Not so. Medical news is available readily on the net. For example, 'Your Health Daily', a Web site devoted to international health and medical news by the *New York Times Syndicate*. The advertiser-supported site's services, including health news, features, and discussion groups, being offered free in the initial phase. You can view current news stories or choose from a selection of common health-care topics such as AIDS, cancer, pregnancy, and smoking to access articles in the site's archives.

There's also a press report of a Bombay-based **Association of Indian Doctors on the Internet.** I don't have the details, so more on this later.

Perhaps the most useful aspect of access to the Internet is the exchange of information that can go on through listservers and special interest groups, and the e-mail contacts that can be made with specialists in various fields of medicine.

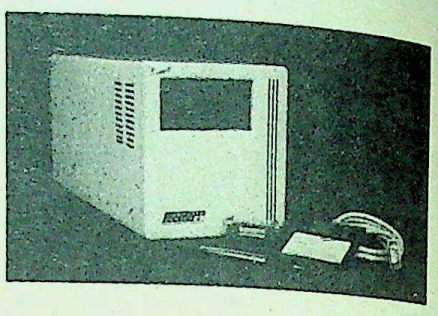
For this alone, access to the Internet is invaluable for the Indian doctor.

Mala Bhargava <mala.bhargava@glasdl01.vsnl.net.in>, a former psychologist at AIIMS, New Delhi, is a freelance writer and reviewer for PCQ Labs

Now in INDIA at ex TAIWAN price

Smart POWER UPS

Compatible with world famous UPS monitoring software "SAFEWARE"*

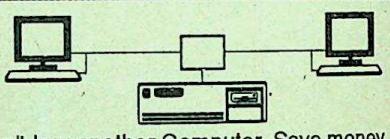


Goodbye CVT & SERVO

Now at Rs. 1500/-

POWER GUARD 1KVA

For Connecting :- Computers, Laser Printers, Xerox, FAX, EPABX, E. Type, Medical, Defence & Commun. Equi etc.



Don't buy another Computer, Save money
Use our **PC SHARE SWITCH** at Rs.2000/- **
Available for CGA, VGA (Mono & Colour) Monitors

* "SAFEWARE" is the registered trademarkk of Lantech Computer Co. TAIWAN.
** Cable Price extra.
*** Prices are exclusive of taxes etc.

A Product From -

COMPUTER CENTER

SERVING INFORMATION TECHNOLOGY

40E, Nimtolla Ghat Street, Calcutta - 700 006
Tel - (033) 5554429/5337740. Fax - 91-33-5554429
E Mail - Power. is @ aXcess. net. In

Available at :

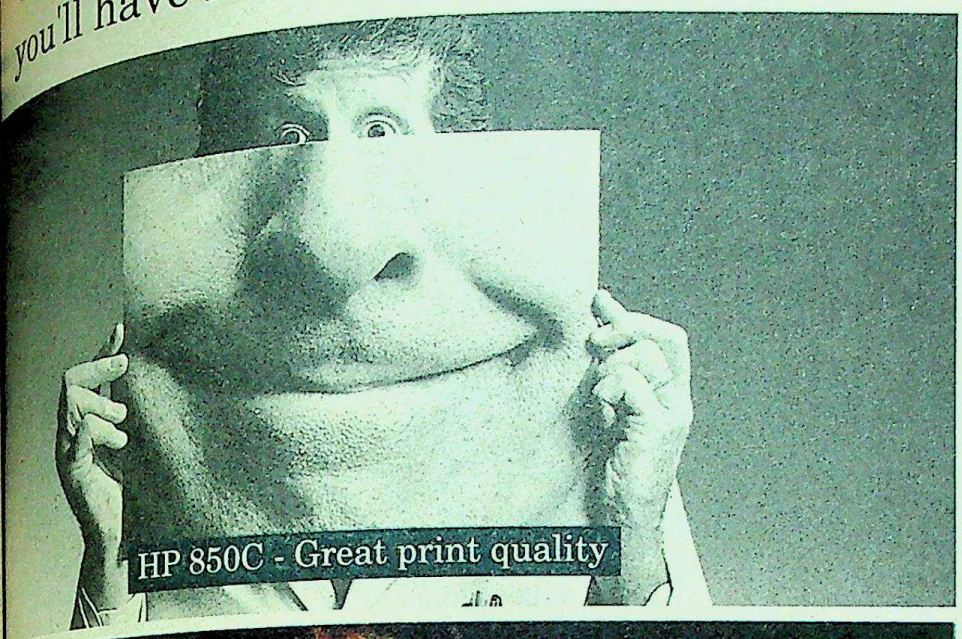
BARODA - Integrated Electronics - 559615, 431465. **BHUVANESHWAR** - Lalani - 402013/405178. **BOMBAY** - Lalani - 2049308. **BHILAI** - The Designer - 357181 / 358520 (P.P.). **BURDWAN** - Sonal Electronics - 4140. **CALCUTTA** - Lalani - 260441/2. Computer Point - 2424670/7831. **COCHIN** - Globe Mart - 374091. **DHANBAD** - Quintech - 6, Lake View. **GOA** - Star Computers - 6630466. **GUWAHATI** - Lalani - 545422. **GANGTOK** - Metro Traders - 23245. **GUDIVADA** - More Services - (08674) 2427. **IMPHAL** - Sangolsem Mani Singh - 220795/296. **JABALPUR** - Rahul Engg. - 311854. **JAIPUR** - Computer Clinic - 311017/310635. **JAMSHEDPUR** - S. K. Computers - 428450 (P.P.), **NEW DELHI** - Indserve Infotech - 7194343/501403. **PATNA** - Prabhat computers - 280080, 283... **RAJKOT** - World Engg. - 54185. **RANCHI** - The Globe Electronics - 202551/3. **CHANDIGARH** - Micro-Tech Computer System, 545... Satyam Electronics - 41586, Fax -706551. **SAMBALPUR** - Prasad Inf. 32903. **SECUNDERABAD** - Lalani - 846934. **TINSUKIA** - Computers - 30432 / 21512. Fax - 22037. **TRIVANDRUM** - **Comphard Engineers** - 710036, 460818. **VISAKHAPATNAM** - Sankou Speciality - 531063.

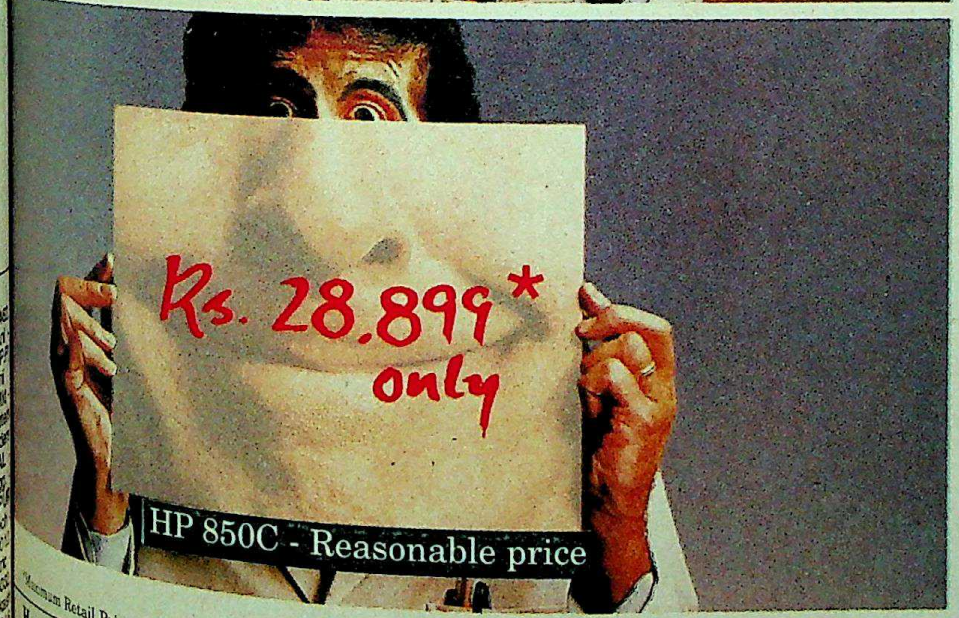
Dealership enquiry solicited

CC-0. In Public Domain. CC-0 UGC Kendriya Vishwavidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

With the HP DeskJet 850C, you'll have many reasons to smile.



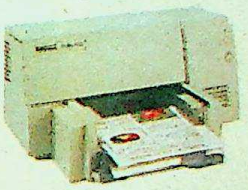


*Maximum Retail Price.

600

Clear sharp
600 x 600 dpi black

HP ColorSmart
technology



DJ 850C

The HP DeskJet 850C certainly gives you a lot to smile about. It puts a professional touch to your black and colour printing at a speed that's as fast as a laser printer. Furthermore you get the legendary HP reliability and service. All this for just **Rs. 28,899***. With the HP DeskJet 850C you'll be all smiles.

For further information, please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machine or touch-tone telephone and request document ID number 90300.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.

Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Madras : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. • **Larsen & Toubro Ltd.,** Bangalore : Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. New Delhi : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 5511808. Bombay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. • **Pentech Computers Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi: Tel : 6446935. • **Rolta Wilkinson (India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 8832478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313. New Delhi : Tel : 6923224.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Mas Rotzall.HP_93_06

Digitized by Arya Samaj Foundation Chennai and eGangotri

India INTERNET

Some more Web sites with an Indian flavor

As India's Internet users grow in number, so do the number and variety of Indian web sites. Some are purely information and resource based, others primarily commercial—and some are plain fun. And very often there are sites that blend in a bit of everything.

And with everyone suddenly getting onto the World Wide Web, there are also lots of personal Web pages.

We've earlier looked at a few of the best-known sites, such as Ravi Database's Indiaworld (http://www.indiaworld.com/). Here's a sampling of other web sites with an Indian flavor.

Silver Leaf

http://www.silverleaf.com

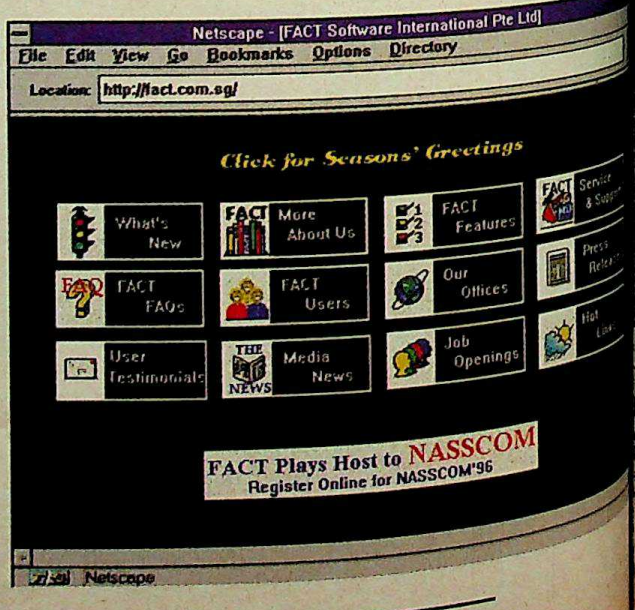
Silver Leaf Software is a company doing its development in India. The company's focus is on Webware and edutainment software. At the Silver Leaf web site, you can read about the company and its people. Silver Leaf is headed by educator Steven Rudolph, and helps fund Jiva, his K-6 school in Faridabad which uses the Internet and learning-based education to implement the conventional curricula.

A section on Webware describes the Webware services available, and how to do business with Silver Leaf. An Educa and Multimedia section describes t ware software, client-server software a interactive learning. There's more ab Silver Leaf's ideas for developing softw in India. An India Online section ha collection of Indian resources on Internet, including information business opportunities, softw development and the state of technol education.

FACT

http://fact.com.sg/

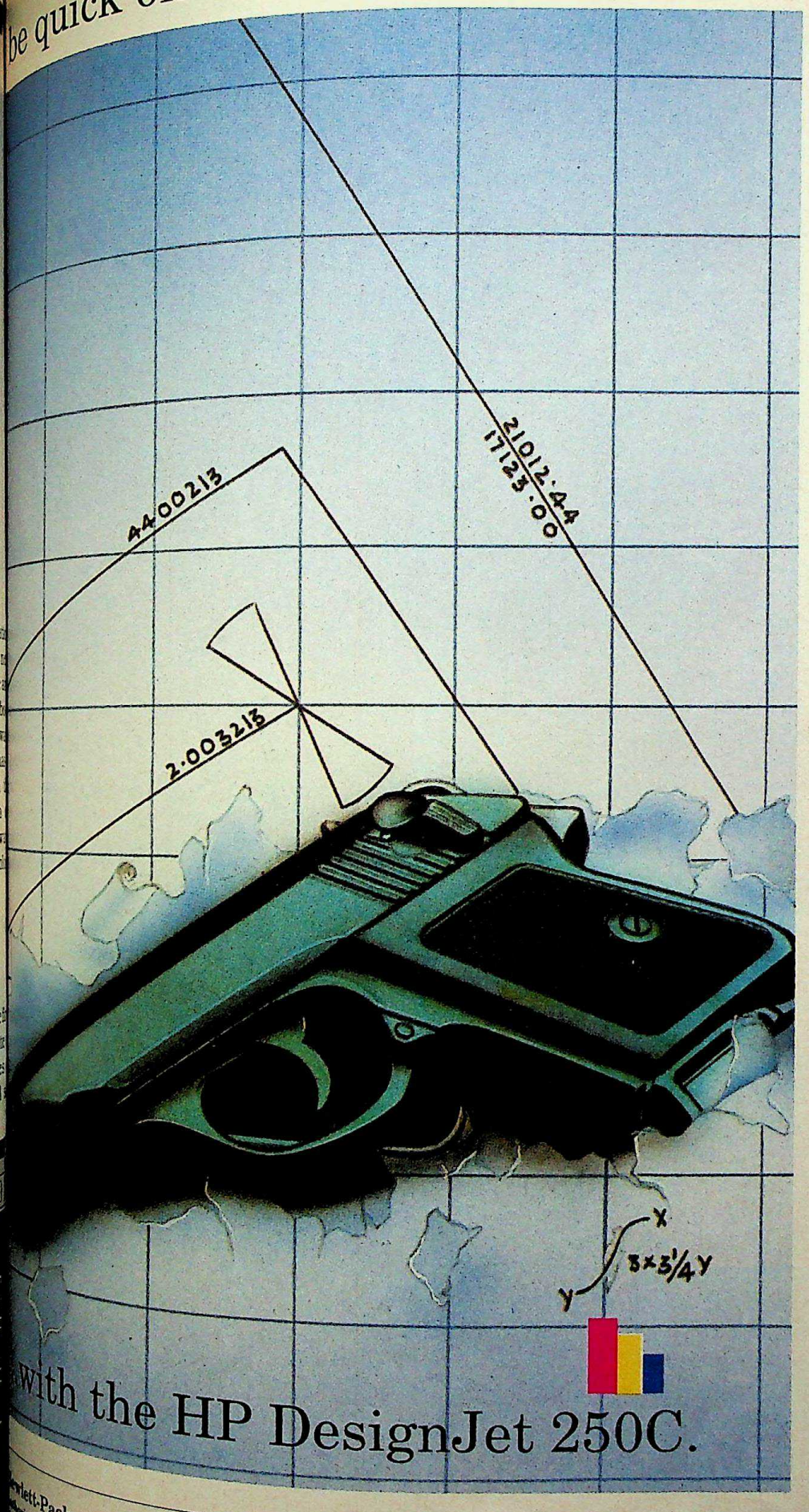
Vedika Software was probably the Indian IT company to set up a Web site the Internet (as against home pages other sites). The Singapore-based



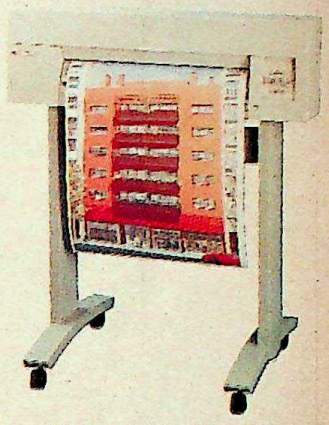
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Whatever you're Plotting, be quick on the draw...



...with the HP DesignJet 250C.



HP DesignJet 250C

When it comes to your plans and plots, you require a plotter that does it's job and let's you get on with your's. Presenting the HP DesignJet 250C, the plotter th brings you top-quality colour plotting, great speed and printing on plain paper too.

The HP DesignJet 250C let's you be quick on the draw, with D-size plots in under 3 minutes. With it's superior print quality (600 dpi monochrome and 300 dpi colour), and the HP reliability, all at an incredible price, you couldn't ask for more.

If your projects require only monochrome plotting, the HP DesignJet 230 is available at a even more down to earth prices.

For more information, please conta any of our dealers listed below. Or, receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machi or touch-tone telephone and reques document ID number 90246 for HP DesignJet 250C/ 230.

HP Plotters.
Setting new standards.

HEWLETT® PACKARD

lett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.
Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505.
: Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663.
: Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091.
: Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293.
Peripherals Pvt. Ltd., Bangalore : Tel : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218.
Computers Ltd., Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi : Tel : 6446935.
(India) Pvt. Ltd., Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313.
: Tel : 6923224.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

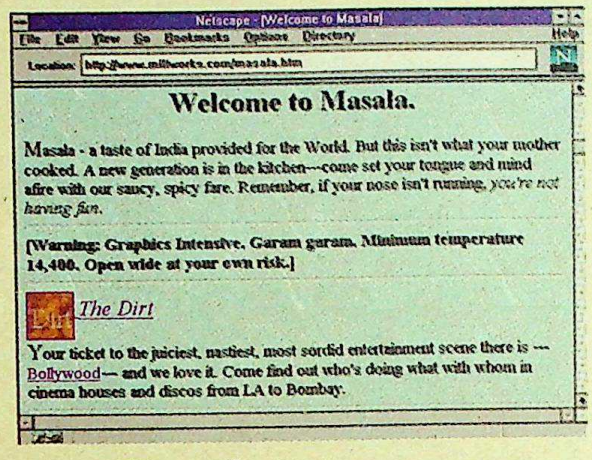
MAA Bozell-HP-81-96

Digitized by Arya Samaj Foundation Chennai and eGangotri

PCQ Cool Site

Masala

http://
www.millworks.com/
masala.htm



This site is hosted in the US by a company called **Millennium Cyberworks**. It's a commercial site, for marketing on the World Wide Web.

Millennium's "Masala" gives you a taste of India. It has a Bollywood section complete with graphics, a cultural section about all that's desi, a section on business developments and opportunities Sports, Indian art and Indian cooking, and much more. Well-integrated, with peppy visuals and text, this is among the best of the India sites.

Millennium Cyberworks is based in Boston, Massachussetts (with, like Vedika and Fact, its development in Calcutta). It's a division of Francis Klein & Company, India, in collaboration with Millennium Worldwide, USA. Ravin Agrawal, executive producer of Millennium Cyberworks, is a Harvard Business School MBA who has worked in the new media studio of the Walt Disney Company.

The company has two sites under way: **Saffron**, "a tradespace for emerging South Asian businesses and industries to reach the world", and IMTEX, the "Internet Machine Tool Exhibition" focused exclusively on the worldwide machine tool industry. Masala promises "garam-garam graphics" that demand 14.4 kbps speeds (so VSNL users can have many coffee breaks while they view these pages). Sites on the cards include **Maya**, a virtual gallery for Indian contemporary art. E-mail: info@millworks.com

Cyber Club

http://
cyberia.cyberclub.doe.ernet.in

This web site features the **Cyber Club** at the **Maurya Sheraton**, New Delhi.

CyberClub is "a Web launchpad" for Maurya Hotel guests, with Silicon Graphics workstations and server on a 64 kbps link at the hotel. You'll find a photograph of the Cyber Club at the web site. The page takes you on a tour of the Maurya Sheraton Hotel and Towers, and links in to the IT Asia '95 Vision Seminar and Virtual Vision Seminars pages.

Software Technology Parks of India

http://www.stph.net

The Indian Goverment's Software Technology Park scheme encourages the export of computer software from India. This web site, from STP Hyderabad, describes the scheme.

There are several Software Technology Parks such as at Kerala, Bangalore, NOIDA, Gandhinagar, Rajasthan, West Bengal, and other places. These are set up by the Department of Electronics through an autonomous organization known as the STPI. The STPs act as resource centres for exporting units which they offer infrastructural facilities. Information on government policy, infrastructure, how to start exporting software from India, and NRI related information can be found at this web site. This, as far as we know, was the first authentic Web site within India and ahead of NIC Delhi's or any others.

Mala Bhargava
<mala.bhargava@giasdl01.vsnl.net.in>

features, and is named after, that company's accounting software package **Fact**.

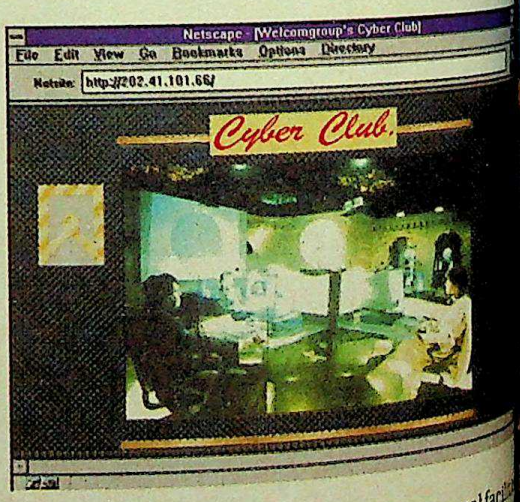
Vedika Software was set up in 1987 in Calcutta, and moved to Singapore in 1993 though Fact's development team remains in Calcutta. At the Fact site, you'll find information about the package, its features, upgrades, news about FACT, and even a FACT FAQ. This could be the first vendor-hosted FAQ on any Indian product.

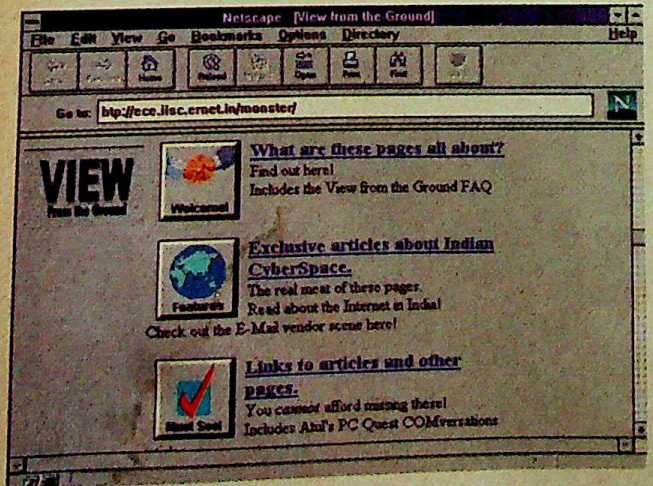
View From the Ground

http://
ece.iisc.ernet.in/
monster/

India's Cyberspace Page is authored by Atul Chitnis and Kishore Bhargava.

At this site, to which you will find links from many other India related sites, there are articles about Indian Cyberspace and India on the Internet. Newbies can find information and an FAQ here, and a lot of software to download. There's a fun section and a section about the authors.

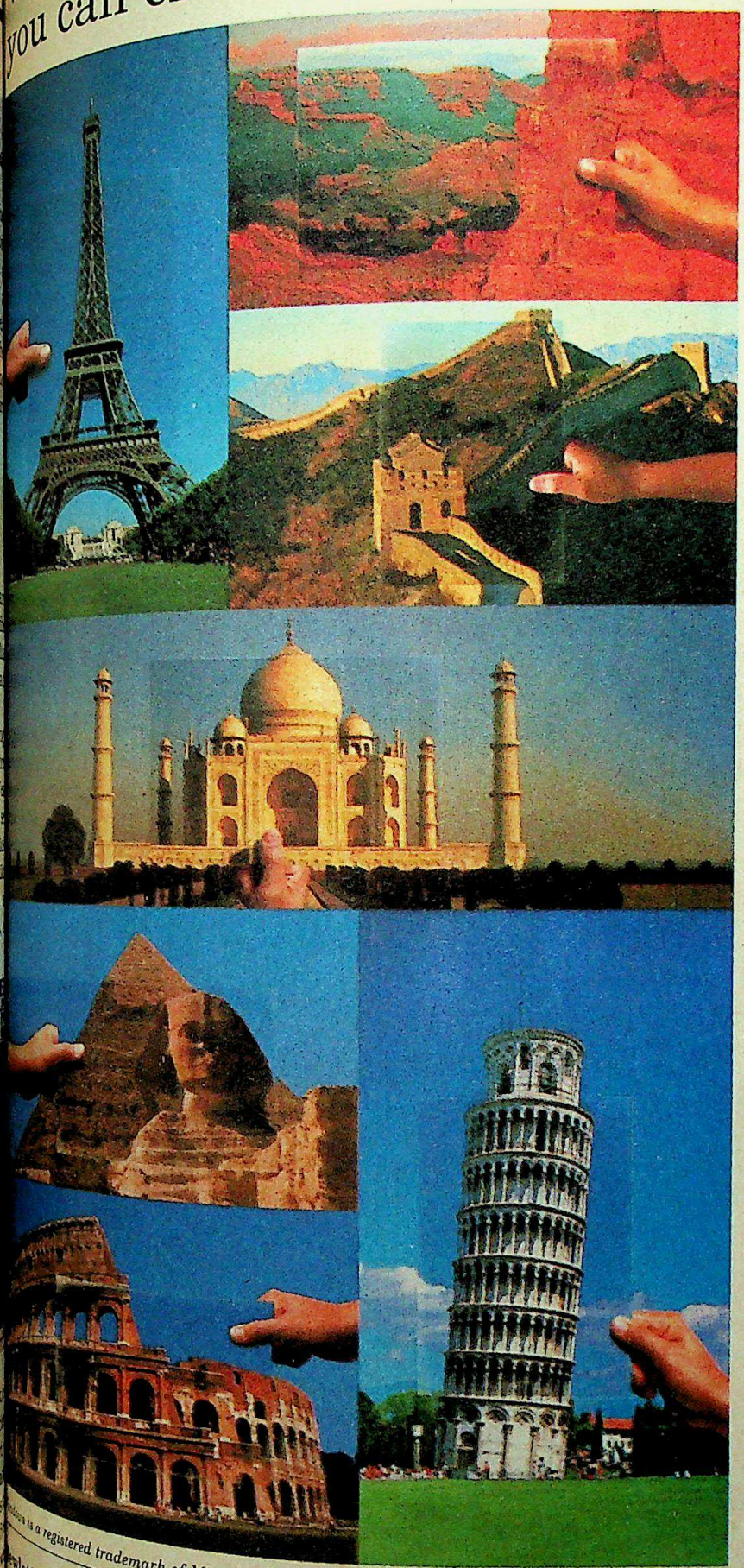




CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

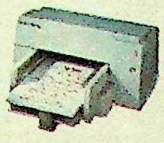
Digitized by Arya Samaj Foundation Chennai and eGangotri

With HP DeskJet printers, you can create wonders.

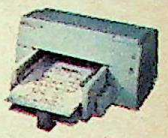


HP DeskJet 340
ID No. 90201

HP DeskJet 400
ID No. 90202

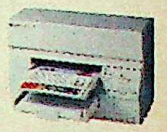


HP DeskJet 600
ID No. 90249



HP DeskJet 660C
ID No. 90191

HP DeskJet 850C
ID No. 90300



HP DeskJet 1200C
ID No. 2331

HP DeskJet 1600C
ID No. 90016

HP's wide range of DeskJets introduce you to the wonderful world of superb, life-like colour printing. HP's exclusive ColourSmart technology and Resolution Enhancement technology give you outputs that are a sight to behold. In addition, HP's advanced paper handling capability gives you great print quality on a full range of media.

What's more, all DeskJet printers are Windows® '95 compatible, easy to install and operate, and come with HP's legendary reliability and quality.

From networkable to portable, let HP DeskJet printers give you the world.

For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST Fax Service** on (011) 6226420 and request document ID numbers as indicated above.

HP printers.
The way the world prints.

HEWLETT® PACKARD

Windows is a registered trademark of Microsoft in the U.S. and other countries.

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.

Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. Tel : 5511808. Bombay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. Tel : 5585025. Bombay : Tel : 4224145. Madras : Tel : 8258465. New Delhi : Tel : 6446035. Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313. Tel : 6923224.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

MAA Bozell-HP-80-96

Digitized by Arya Samaj Foundation Chennai and eGangotri

MAILING LISTS On The Net

The most basic form of "offline internet access" is available to anyone with an e-mail address that can receive Internet mail

If you have been surfing long enough, you must have heard of mailing lists and the talk about joining or subscribing to them. A mailing list is a collection of e-mail addresses of people who share common interests. On the Internet, it provides an arrangement where a group of people can discuss matters of common interest via e-mail. The basic idea behind mailing lists is pretty simple. If one member wants to convey an opinion to other list members,it is mailed to all of them. This is true for follow-ups and new discussions. It is not mandatory for list members to actively participate in discussions through frequent postings; they can just sit back and listen.

There are some 2,600 different mailing lists on the Net pertaining to a huge variety of topics. Some have a large membership while others are limited to 20-40 people. This article focuses on different kinds of mailing lists and the way these are organized and administered. It discusses the process of finding a mailing list of interest and how to subscribe to or decline a subscription. In addition, it also acquaints you with the mailing list technologies and related jargon.

Distributed Mailing Lists

As long as the number of people on a list is small it's fairly simple to implement a mailing list. Each person on the list keeps track of everyone else. When a member wants to broadcast a message to other group members he or she simply addresses mail to everyone. (This is not as tedious as it sounds. Several e-mail systems support aliases where one tiny word can represent the e-mail addresses of all members on the list). When a person wants to be added to (or removed from) the list, a message is sent to everyone to add (or remove) them. As long as the number of people in the group is small the scheme works, but with frequent changes to list membership and large number of members, the system proves unwieldy.

Centralized Mailing Lists

Centralized Mailing Lists overcome the difficulties of maintaining a decentralized list. One member tracks all the listed members and does general administration like adding and removing people from the list. All the mail to be transmitted is posted to one central address which sends the mail to all members of the list. A centralized mailing list has two addresses. The first is the submission or list address, and is used to submit articles to be read by other members of the list. The second or administrative address, is used to talk to the maintainer (sometimes called the owner) of the list. In most cases, the administrative address is the same as the list address with a request added to it. For example if the list address is nirvana@music.rock.com then the administrative address would most probably be nirvana-request@music.rock.com. To subscribe to such a list one sends a message to the administrative address requesting the maintainer to accept the subscription. Since this mail is read by a human, it doesn't require any special formatting. The most common mistake is to send a request to be added or removed from a list to the submission address. The message gets broadcast and annoys other members.

Automatic Mailing List Maintenance

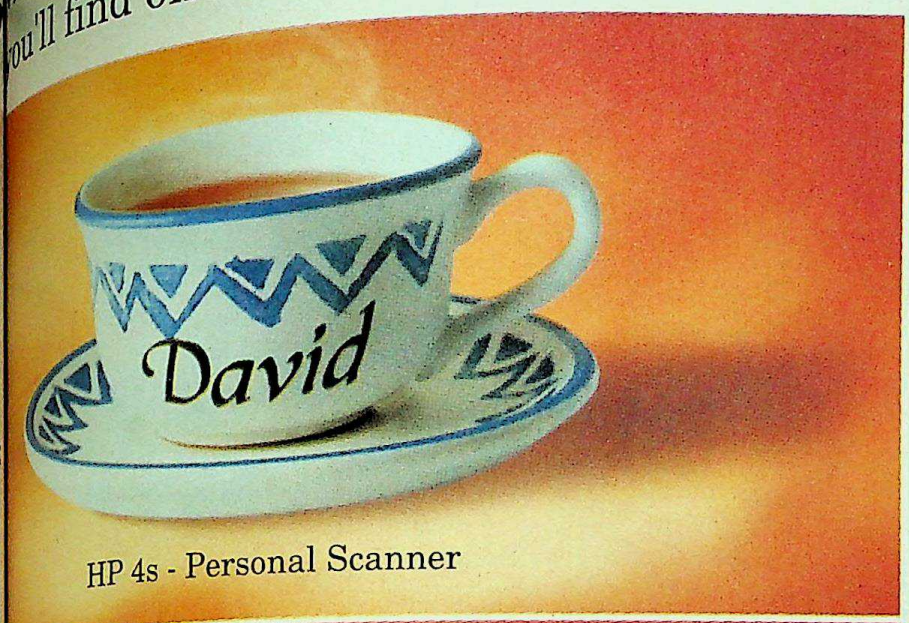
As a list grows in size, maintenance takes up a lot of the list maintainer's time. To conquer the list size and bandwidth, several software packages were developed to automate the list maintenance. One of the earliest and the most widely used list processing packages is LISTSERV. This responds to requests sent in the body of an e-mail message.

LISTSERV accepts commands requesting different actions, such as subscribing to a list or listing members of the group. All these commands (administrative requests) are sent to the LISTSERV address of the mailing list. LISTSERV takes a suitable action

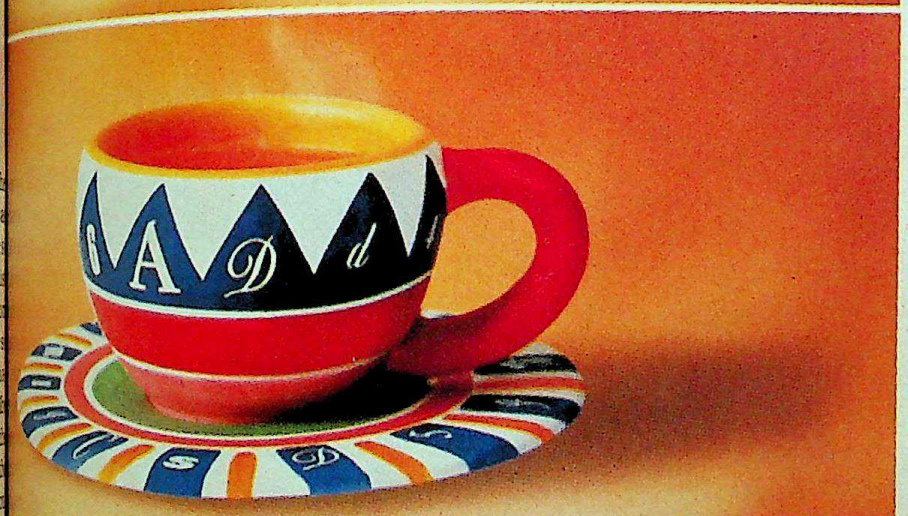
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

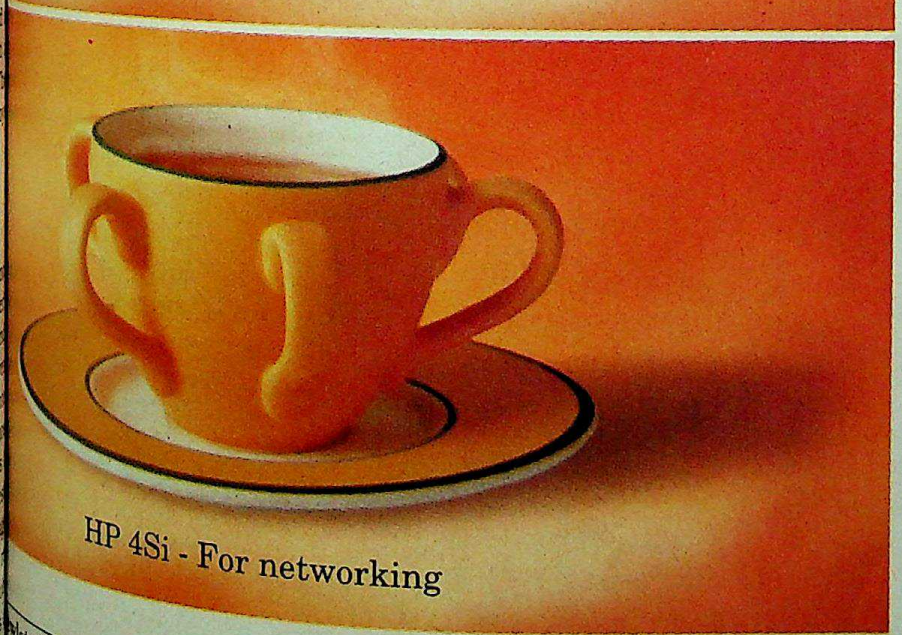
With HP's range of scanners, you'll find one that's your cup of tea.



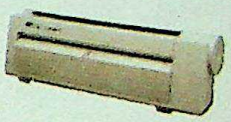
HP 4s - Personal Scanner



HP 4c - For text & colour graphics



HP 4Si - For networking



HP ScanJet 4s
ID No. 90210

HP ScanJet 4c
ID No. 90211

HP ScanJet 4Si
ID No. 90212

If finding a scanner that suits your taste is a problem, HP has some good news. Now, with our new HP ScanJet 4s, 4c, and 4Si, we have a range of scanners to satisfy every need.

Scanners for storing and sharing information. For high quality text and colour images. And networkable scanners too. The HP ScanJet range caters to a variety of tastes. Furthermore, all HP scanners let you add and edit text before sending it electronically. So, no matter what your preference, HP has a cup just for you.

And that's not all. Each product is backed by HP's legendary quality, service and reliability.

For more information, please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machine or touch-tone telephone and request document ID numbers as indicated above.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.

Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. New Delhi : Tel : 4349620. Hyderabad : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Tel : 2596111. Calcutta : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Tel : 2636984. Bangalore : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. & Toubro Ltd., Bangalore : Tel : 5511808. Bombay : Tel ; 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. Computers Ltd., Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi : Tel : 6446935. (India) Pvt. Ltd., Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313. Tel : 6923224.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

MAA Bozell-HP-82-96

Digitized by Arya Samaj Foundation Chennai and eGangotri

Date: Thu, 19 Oct 1995 20:29:41 GMT
From: pubs@uniforum.org (UniForum Publications)
Member Number: 90288

UniNews
The Biweekly Newsletter For UniForum Members

Issue Date: October 18, 1995
Volume IX, Number 17

Dear UniForum Member,

Welcome to the latest issue of our electronic version of UniNews. We hope you enjoy the benefits of receiving the UniForum newsletter faster than ever before. You can look forward to receiving subsequent issues in the same timely and cost effective way.

If you want to let us know you enjoy receiving UniNews via email or if you want to ask us to stop sending it to you, you can email us at pubs@uniforum.org.

sends a status report via e-mail. There are two addresses here, the list address and the LISTSERV (administrative) address. If the list address is nirvana@punkrock.bitnet, the corresponding LISTSERV address would be listserv@punkrock.bitnet. LISTSERV commands are pretty simple. The subscribe command looks like this: *SUBSCRIBE* List-Name Your-Name. A valid example could be: SUBSCRIBE Nirvana Suchit Dubey.

LISTSERV fetches your email address from the mail header. Unsubscribing or signing off a mailing list is equally simple. Instead of SUBSCRIBE use the keyword SIGNOFF.

Other popular mailing list packages are SmartList and MajorDomo. They are almost similar to LISTSERV and are set up to intercept and respond to administrative queries sent in a mail message. These packages send a list of commands they understand in response to mail with the subject "help".

Moderated Mailing Lists

Controversies are only natural. More so, when the topic of discussion is as sensitive as religion. In such cases, lists are moderated (censored is not a word internauts like using). In a moderated list all the messages are addressed to a nice guy called the moderator, who checks the message before it is broadcast to all the members of that list. If the moderator finds the message controversial he deletes it. The moderator does not monopolize thinking; his job is to subtly enforce the guidelines set up for the mailing list.

Digests

If you subscribe to five mailing lists at a time, your mailbox can be the biggest mess in town. More so, if these mailing lists are of a high bandwidth. Digests are a solution in such cases. A digest is a collection of messages accumulated in a large batch which is sent out on a regular basis to the members. Instead of receiving small, individual e-mails you receive a big chunk containing individual messages. Digest messages are sent out on the basis of time or when the chunk is large enough. Most digests also include a table of contents at the beginning of the message. Many mailing lists are available in both digest and regular form.

Finding a List

As we said earlier there are a large number of mailing lists on the Net. A document called List-of-Lists contains information on these lists, and can be retrieved via anonymous FTP from rtfm.mit.edu/pub/usenet/news.announce.newusers/Publicly_Accessible_Mailing_Lists. The document gives the name of the list, a brief description of the topics covered and instructions on how to subscribe. Other information such as whether the list is moderated or available in digest form is also given.

Vipul Ved Prakash

Continued from Page No. 123

equations—makes the task so m... more difficult. Think now of mu... mensional space in place of the ... dimensional Cartesian plane and ... have an estimate of the problem.

Neural nets—in spite of all the ... culties in training—are actually ...

There are no real ru... that tell a designer w... sort of an architecture ... choose. A three-layer ... structure with 4, 5, 2 n... rons in each layer could ... just as good as a m... complex 4, 10, 2 struct...

gressing towards commercial and ... fense use. The uses are still very ... cialized and only in presence of a ... native methods which are more r... suring and reliable. In areas where ... hold sway due to the inability of t... tional methods to provide feasible ... tions, neural nets are used exclus... Yet, these attempts have rarely m... beyond labs. Unlike other revol... ary methods in AI, ANNs have be... familiar tools among the academic ... munity with many graduate stu... working on them extensively. S... day when fuzzy-logic washing ma... give way to neural networked co... probably not very far away.

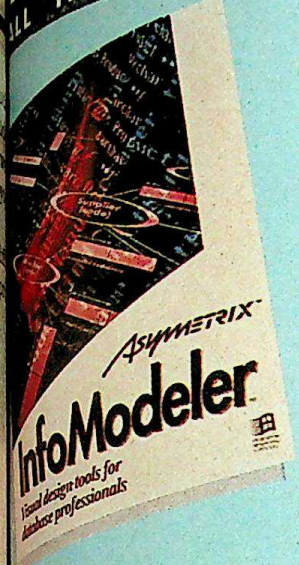
PV Subramanian (pvs@pcq... or PVS on PCQ Online) is with SSS...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

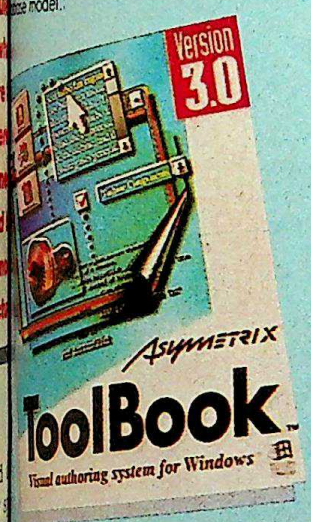
MULTIMEDIA

ALL THE TOOLS YOU'LL NEED TO CREATE YOUR OWN.



INFOMODELER 1.5

InfoModeler is an exciting visual modeling tool for relational database developers. InfoModeler lets you focus your attention on describing your information system in plain English. From these facts InfoModeler automatically generates your logical database model..



TOOLBOOK 3.0

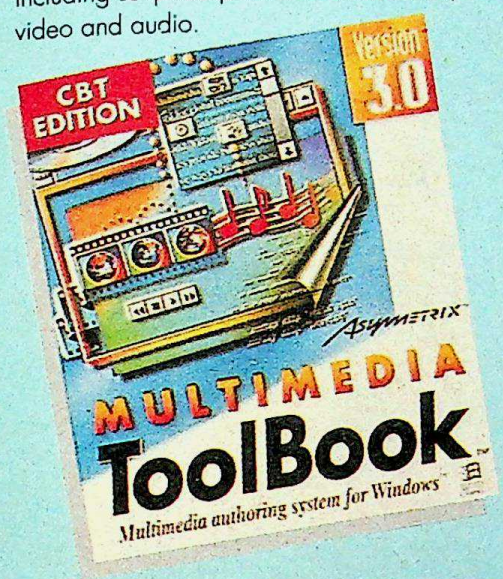
The ideal authoring solution for commercial and corporate developers. When developing business critical applications, ToolBook's familiar book metaphor speeds the process of authoring and results in applications that are easy to use and understand.

DIGITAL VIDEO PRODUCER

A high performance tool, based around an intuitive timeline, which Windows users can use to create professional, high quality digital video. It supports an extensive range of transition effects and users can create clips containing special effects, animated titles, and more - in minutes.

MULTIMEDIA TOOLBOOK 3.0

Contains all the features and benefits of ToolBook 3.0, plus a multimedia engine with additional functionality. It handles more powerful and complex multimedia elements, including scriptless path-based animation, video and audio.

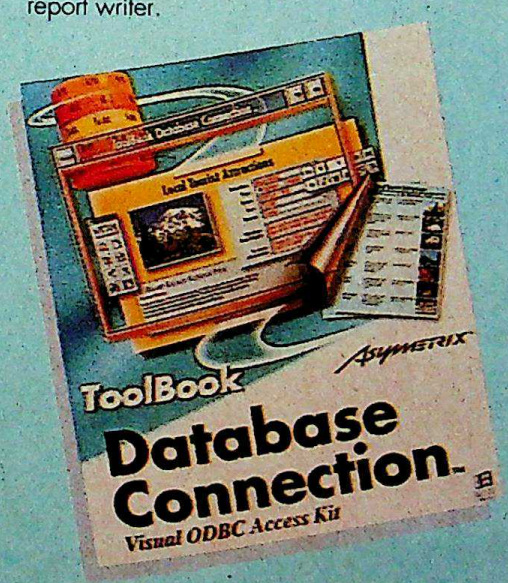


MULTIMEDIA TOOLBOOK CBT EDITION

Contains all of the features and power of Multimedia ToolBook 3.0, plus an expanded feature set tailored to the specific needs of today's multimedia courseware authors.

TOOLBOOK DATABASE CONNECTION

Is a Visual ODBC Access Kit which lets you focus on the content and creation of your ToolBook and Multimedia ToolBook applications, not just data. It provides powerful database access using the industry standard Open Database Connectivity (ODBC) and leading Borland ReportSmith report writer.



MEDIABLITZ!

Includes everything you need to edit and arrange sound, graphics, animation and video. Easily create multimedia shows and screensavers, or add the power of multimedia to your Windows-based applications.

3D F/X

Is the revolutionary, easy to use graphics tool for creating professionally-rendered 3D images and animations. This product gives users the ability to create stunning 3D content for use in many different applications including interactive learning, corporate presentations, information kiosk, CD-ROM titles.

ASYMETRIX
ASIA PACIFIC
AUSTRALIA

Asymetrix is the world's leading creator of Windows-based multimedia authoring and development tools.

With these titles you can create your own programs quickly, simply, with no programming knowledge.

Interactive multimedia for sales presentations, exhibition showings, performance support, graphics and video – these tools let you create them yourself, like an expert.

DISTRIBUTORS IN INDIA

NEW DELHI
70, Janpath, Connaught Place,
New Delhi-110 001.
Ph. # 011-3731844, 3731845,
3320224, 3324551, 3326313
Fax # 011-3723268

BANGALORE
84/2, S.T. House,
IInd Floor,
Richmond Road,
Bangalore-560 025
Ph. # 080-2240396
Fax : # 080-2240397

BOMBAY
104, Adarsh, 1st Floor,
86, Main S.V. Road,
Santa-Cruz (West)
Bombay - 400 054
Ph. # 022-6462053
Fax # 022-6487845

CALCUTTA
Flat No. 306, B-Block,
Mansarovar Building 3B,
Camac Street,
Calcutta - 700 016
Ph. # 033-292260
Fax # 033-2429044

CC-0. In Public Domain. Gurukul Kangri Collection, Ha

Digitized by Arya Samaj Foundation Chennai and eGangotri

Two Seminars that will change the way India does Business

"Hello, my name is Atul Chitnis, and this is my friend, Kishore Bhargava"

Since 1994, these words have been the beginning of an incredible experience for thousands of people across India, as these two internationally renown technology consultants helped launch them into Cyberspace.

Now they are back, with a never-before combination of not one, but two full day seminars, held on consecutive days.

Seminar 1 : Introduction to Datacomm

A seminar designed to introduce the audience to the fantastic world of datacommunications. Starting with the very basics, this seminar will carefully guide you through subjects such as what is datacommunication, what modems are and how they work, how to select a modem best suited to your needs, all the way to Electronic Mail, online services such as BBSs, CompuServe and, of course, the Internet.
No prior knowledge of datacommunication is required.

Seminar 2 : Business on the Internet

A seminar designed to guide CEOs, managers and executives through the process of getting their business onto the Internet. It will address various methods of business communication via the Internet (including advertising and marketing), as well as various mission critical topics such as security and financial transactions via the Internet, setting up of a presence on the World Wide Web and the linking of offices via the Internet.
Knowledge of datacommunication concepts is required.

Seminar Organisation

Each seminar is supported by its own detailed demonstrations, in-depth discussions, extensive printed course material and disks full of useful utilities andapplications that will get you up and going immediately.

While completely self-contained, newcomers to the world of datacommunication should consider attending both seminars for maximum benefit. Topics covered in Seminar 1 will not be repeated in Seminar 2.

Global and Indian Focus

These seminars do not just present the concepts and the technology, but also focus on the Indian aspects and issues involved. Together, they will give you all the knowledge you need to understand the way the world will communicate in the final years of the 20th century.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...troduction to ...atacomm

...ction to Datacommunication
...ng Modems
...g a Modem
...sfers
...dem and Kermit
...ing Electronic Mail
...e Electronic Mail
...Services
...Board Services (BBSs)
...ic BBSs
...up a BBS
...Serve Information Service
...rnet
...ld Wide Web
...rm Troubleshooting

Business on The Internet

Intro to Business on the Internet
Internet Business Resources
Internet Marketing Platforms
Marketing with the WWW
The Internet for Customer Support
International Business on the Net
Web Browsers
Advertising on the WWW
Development of WWW Pages
WWW Page Design Guidelines
Internet Financial Transactions
Intellectual Property Rights & Patents
Privacy on the Internet
Security Strategies
Internet as a Business

City	Seminar 1	Seminar 2	Time	Venue
Bangalore	4th March	5th March	10:00 a.m.	Taj Residency
Madras	7th March	8th March	10:00 a.m.	Chola Sheraton
Calcutta	11th March	12th March	10:00 a.m.	Park Hotel
Bombay	14th March	15th March	10:00 a.m.	Airport Centaur
New Delhi	18th March	19th March	10:00 a.m.	Taj Palace

...INAR PARTICIPATION FEES

...duction to ...comm : Rs.3,000

...ess on ...ternet : Rs.5,000

Seminars : Rs.7,000

...include Printed Course Material, ...ches, Lunch, Tea and Snacks.

REGISTRATIONS

For bookings and more information, please contact any of our offices at the addresses shown here, or contact us electronically at:

E-Mail : cyberb@giasbm01.vsnl.net.in

World Wide Web : http://ece.iisc.ernet.in/monster/seminar/

Please book well in advance to avoid disappointment

...YBEREXPO

...vision of Cyber Media (India) Ltd.

BANGALORE
401, 4th Floor, MBC
134 Infantry Road
Bangalore 560 001
Phone: 551-1511, 556-8238
Fax: +91 (80) 556-2971

MADRAS
7th Floor, Guna Buildings
304/305, Mount Road
Madras - 600 018
Phone: 45-9458
Fax: +91 (44) 825-2828

CALCUTTA
Sourya's Business Center
233/3 AJC Bose Road
Calcutta - 700 020
Phone: 247-1285, 40-6492
Fax: +91 (33) 40-8423

BOMBAY
2, Jain Chambers
577 S.V.Road, Bandra
Bombay - 400 050
Phone: 645-0050/1, 642-7910
Fax: +91 (22) 640-3986

NEW DELHI
506 Meghdoot
94 Nehru Place
New Delhi - 110 019
Phone: 641-6315, 647-6664
Fax: +91 (11) 641-1692

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Visual FoxPro 3.0

This popular xBase platform has now been extended with object-oriented features

Microsoft's Visual FoxPro 3.0 ships on 12 high density (1.44 MB) diskettes and takes up over 40 MB of space. It introduces Object Oriented Programming (OOP) capabilities to FoxPro. The Professional Edition of Visual FoxPro allows developers to create, compile, and distribute royalty-free applications. In addition, the following features and tools are available only in the Professional Edition:

1. Setup Wizard to create EXE files
2. Documenting Wizard
3. Upsizing Wizard
4. Printed Language Reference and Professional Features Guide
5. Two versions of the Windows Help compiler
6. OLE controls for communications, messaging, outlining and picture clips
7. API Library Construction
8. Class Browser (displays classes in a class library or form)

RAD

Rapid Application Development was a major design goal for Visual FoxPro. This is how Microsoft has gone about achieving it:

- The xBase procedural programming has been extended with object oriented features and now allows for the creation of classes, subclasses and objects.
- It is possible to create objects through programming constructs as well as visually.
- User-created classes can be placed on the design palette in a manner that mimics the installation of components and custom controls.

Event-driven programming (previously based on the Foundation read method), has been replaced by the simpler and traditional Windows event model supported by all contemporary development environments. In fact it supports the full set of Windows events including mouse events, making it feasible to implement drag-and-drop. As a result, programming with VFP now should be a lot easier than it earlier was. Like other visual environments, you would be able to develop applications by placing objects on a user interface form, setting the object properties and writing event handlers using the property inspector.

Client/Server Development

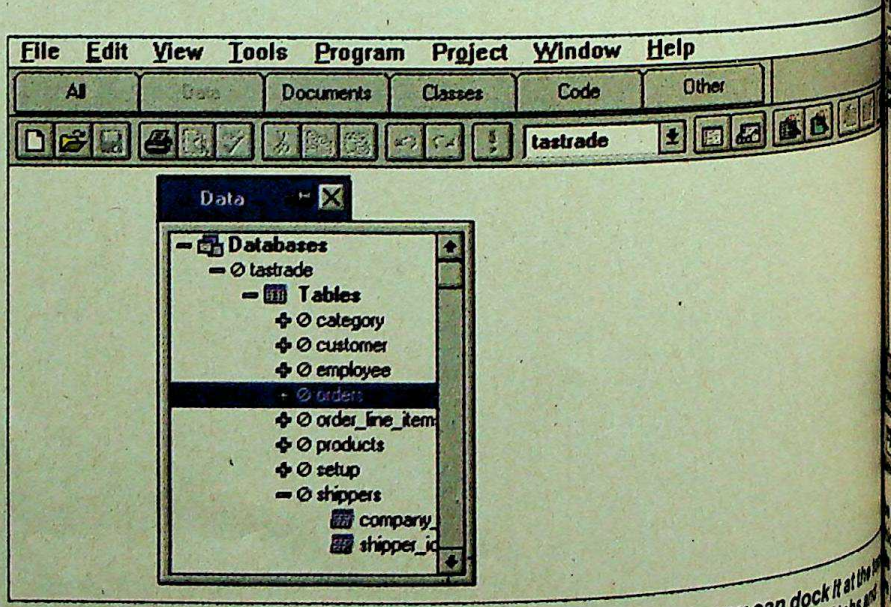
There are other significant improvements besides the introduction of object orientation and event driven programming. FoxPro can now use ODBC to access data from SQL servers on the network. The VFP database engine also provides creditable support so it is possible to prototype S applications using just VFP and scale the application to a server.

Visual Design Tools

The Project Manager is a lot versatile and now includes functionality of the Catalog ma What impressed us was the effort by Microsoft programmers t the Project Manager easily acces even on a crowded desktop. You collapse the Project Manager so only the tabs show or you can dock the top or bottom of the screen so it appears like a tool bar. You can off tabs from a docked Project Ma and expand it to access files. The even a push pin on the Project Ma to keep it on top of all windows o desktop.

Altogether new is the Data Designer that lets you graphically tables using drag-and-drop and define the update and delete rules reminiscent of a similar facili Access 2.0. Table relationships, set, are persistent and automat apply when you place linked table a form.

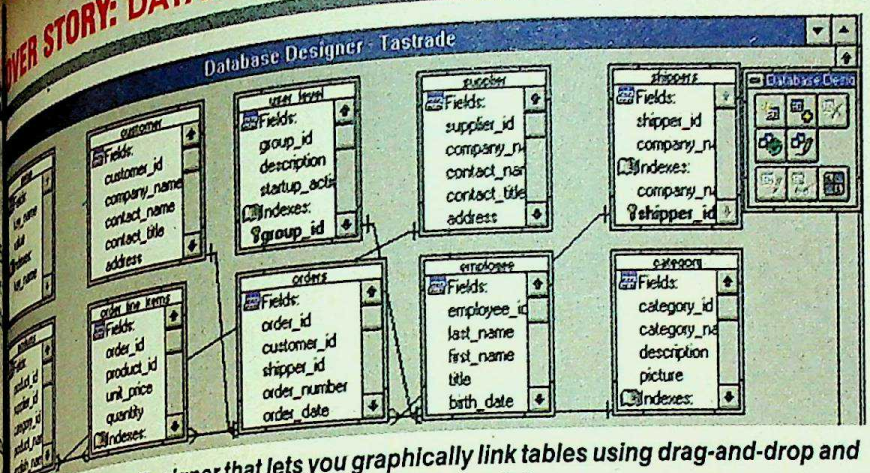
The Form designer now l identical to many other vi development environments. The the tool bar from which you can s



You can collapse the Project Manager so that only the tabs show, or you can dock it at the bottom of the screen to make it look like a tool bar. To access files, you can tear off tabs and expand them

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



In VFP is the Database Designer that lets you graphically link tables using drag-and-drop and define the update and delete rules, reminiscent of Access 2.0

There is View Builder that is almost identical to the query builder except for an additional page to specify the Update criteria. The user can use the Update Criteria page to set options and control how update requests are sent to the source tables. Views allow users to restrict the data that they pull out from the server and thus restrict the network traffic. Like Queries, Views too can be parameterised.

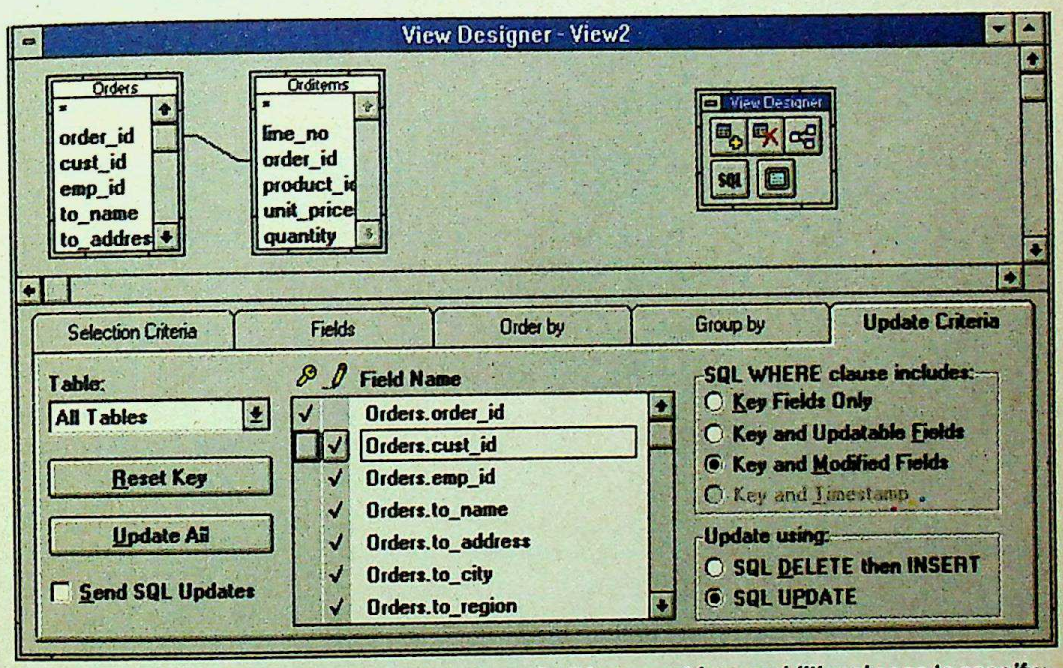
Backward Compatibility

Users have the choice to migrate

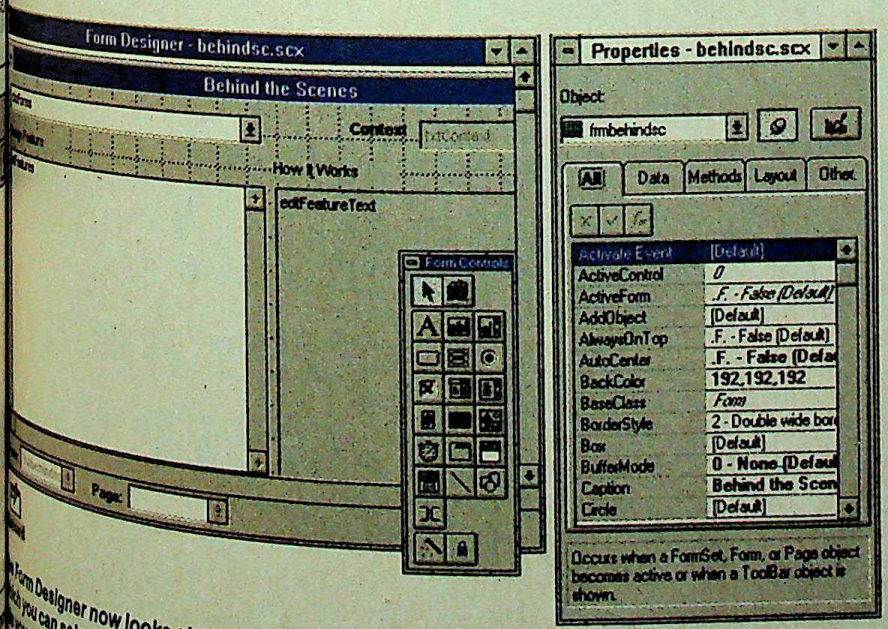
cts and place them on the form. A ingle page Properties inspector lets set properties as well as write t handlers and methods for the cted object. There are productivity es such as a layout toolbar to objects.

Similar to the Form designer is the l Class Designer. You can use it to ly create new classes and define properties and methods for them. created classes behave exactly like classes and their properties and ds also appear on the property . While creating a class the Class igner lets you inherit from an ing class.

Another new feature is the Visual y Designer that draws upon the in Access 2.0. Querying in Visual ro is a lot easier than in the earlier ion.



The View Builder is almost identical to the Query Builder except for an additional page to specify the Update Criteria. The user can use the Update Criteria page to set options and control how update requests are sent to the source tables



The Form Designer now looks similar to the ones in other visual tools. There is a tool bar from which you can select objects and place them on the form. A multiple page Properties inspector lets you set properties as well as write event handlers and methods for the selected object. There are productivity features such as a layout toolbar to align the objects

from FoxPro 2.x to FoxPro 3.0 in stages to leverage their existing investment in FoxPro. To start with, they can run their 2.x code unchanged in FoxPro 3.0 so that there is no down time. As they start to feel comfortable with the new environment, they can tap into its potential by adding object extensions to their program files. Finally, to upgrade an application fully, they can use a converter program that ships with FoxPro 3.0 to convert FoxPro 2.x objects to VFP format.

Ease-Of-Use Redefined

Visual FoxPro finally works and feels like a true Microsoft product. Microsoft products have an enviable reputation of being extremely user friendly. FoxPro 2.6 was a bit of a let-down on that count; not so with VFP. The wizards and builders in VFP

CC-0. Mumukshu Bhawan Varanasi Collection. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

automate the routine part of application development.

Builders, like the List Box Builder, are programs in VFP that interact with the Form and Class Designer. They consist of one or more dialog boxes that present alternatives to the users and in response to the user selections automatically set the properties of an object on the form.

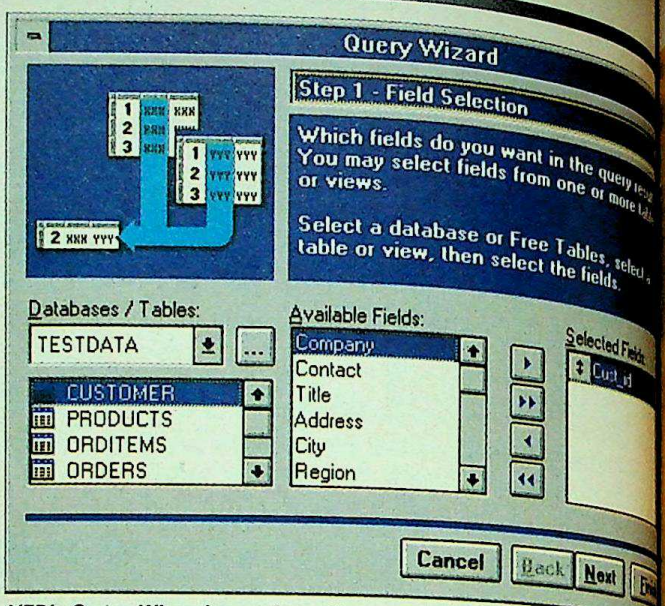
Good Database Engine

The database engine of VFP offers a rich assortment of SQL server features like:

The VFP Wizards

- Form Wizard for creating single table and master-details forms
- Report Wizard for creating single table and master-detail reports with groupings and totals
- PivotTable Wizard
- Remote View Wizard
- Setup Wizard
- Upsizing Wizard

- Stored procedures
- Triggers. For each table, you can create one trigger for each of the three events: Insert, Update, and Delete. A table can have a maximum of three triggers at any one time. A trigger must return a true (.T.) or false (.F.) value.



VFP's Query Wizard speeds up the querying process significantly

- Table-level validation rules for record validation
- Field-level validation
- Indexes—Primary, Candidate, Unique and Regular

Performance

For Fox loyalists, VFP represents a giant leap into a contemporary visual, OOP and event-driven environment. However, it comes at a cost. VFP developers will need to be content with operating speeds that are a lot slower than what they have been used to. In our first look, the product appeared sluggish on a 486DX2 with 8 MB RAM.

VK Thakur is a PC Quest contributing editor based in Delhi-based database and information consultant. You can reach him at kuku.thak@axcess.net.in as THAK on PCQ.

Big Power Problems:
Small Solutions

Features
★ Very Compact in Size
★ Built in SMF Batteries
★ Built in AVR
★ Protection for NOVELL/LAN/UNIX Systems with an optional Software.

The Answer
WELP UPS

INFINITE POWER SYSTEMS
No. 770(3306), 1st Floor, 10th Main, 34th Cross, 4th Block, Jayanagar, Bangalore 560 011. Telefax: 080-2272258 ☎ 6635996

DEALER ENQUIRIES SOLICITED

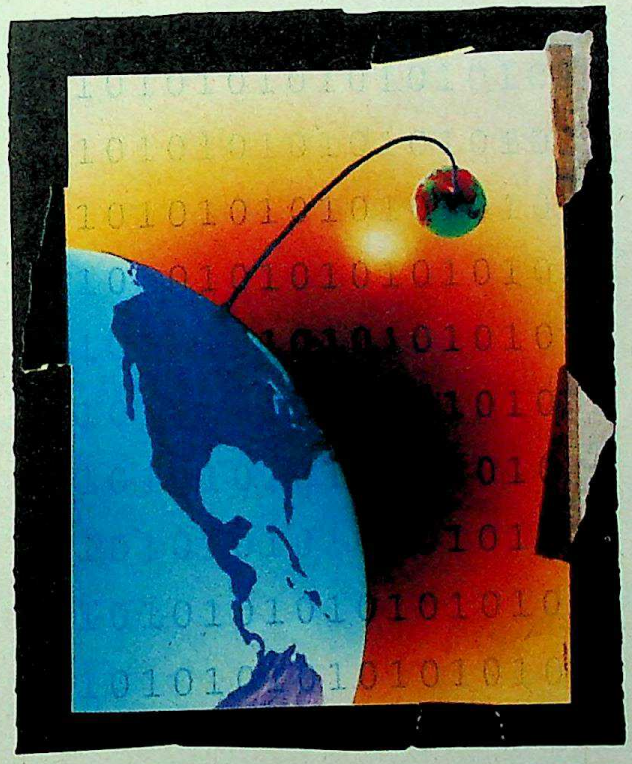
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Oracle Workgroup 2000
Proof that you can.

FREEDOM TO DEVELOP CLIENT/ SERVER APPLICATIONS ON YOUR PC.

WITH TOTAL SCALABILITY AND TOTAL PORTABILITY.



PERSONAL ORACLE7
AND
ORACLE POWER OBJECTS
FOR RS. 19,900/-
VALID TILL 29th FEBRUARY

With Personal Oracle7, for the first time you can develop client/server applications on your PC which are

TOTALLY PORTABLE
(to any of the 90+ platforms supported by Oracle7)
and
TOTALLY SCALABLE
(only Oracle offers a single database architecture that spans from the laptop to the workgroup to the enterprise level).

Personal Oracle7 offers unmatched ease of use. And is a part of the Oracle Workgroup/2000.

ORACLE®
Enabling the Information Age

Oracle Software India Pvt. Ltd., 705, International Trade Tower, Nehru Place-110019. Tel.: 6475286, 6475287, Fax: 6467923.
National distributor for Oracle Workgroup / 2000: **Hexaware InfoSystems Ltd.**, Bombay, Tel: 8389831, Fax: 8389828. Bangalore, Tel.: 2213334, Fax: 2274405. Delhi, Tel.: 6440644, Fax: 4632517. Calcutta, Tel.: 402842, Fax: 407705. Madras, Tel.: 456596, Fax: 4343206.

Please visit us at Nasscom 1996 in Bombay at stall no 130-138 and at Cyber City stall no 708-709

Clarion AVO806

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Delphi 2.0 For Windows 95

Borland's popular development tool uses Win95's architecture to cross 64kB datasizes

Borland introduced Delphi 1.0 in February 1995. Combining a visual component-based development environment with a native code compiler and a scalable database architecture proved a heady brew for developers; enough to convert die hard Visual Basic, PowerBuilder and C++ fans to the Borland fold. More importantly for Borland's then grim bottom line, the product was well received by corporations. And Delphi 1.0's brisk sales improved Borland's condition.

Borland is now releasing Delphi 2.0 or Delphi32 as it's referred to. This takes full advantage of Win95's 32-bit architecture and multithreading. And comes with a beefed up database engine to support data sizes larger than 64kB. Delphi32 is available as Client/Server Suite 2.0 (corporate); Developer 2.0 (LAN-based); and Delphi 2.0 Desktop.

Delphi 2.0 can run most existing Delphi code without modification. But you do need to recompile the project. If your application makes a Windows API call that has been modified under Windows 95, you would also need to incorporate these changes in your source code. Similarly 16-bit inline assem and low level codes that depend o physical size of integers would req a rewrite.

At PCQ Labs we were able to existing applications merely recompiling. (We aren't hotshot grammers here who do low level s

For new users, Borland is bun a copy of Delphi 1.0 with every co Delphi 2.0 sold. This will enable D 2.0 users to simultaneously dev applications for both 16- and 3 environments.

New Features

The new 32-bit optimized native compiler is as fast as lightning, (Ne 350,000 lines per minute! While P Labs didn't do a formal test, a v improved compilation speed was cernible. Not that its predecessor slow.)

In Delphi 1.0, to share code bet Delphi and C++ apps, you had to the shared code into a DLL. Delphi uses the same backend compile Borland's 32 bit C++. Now Delphi can be compiled into object mod instead of a .DCU. You then link in object modules into your C++ proj

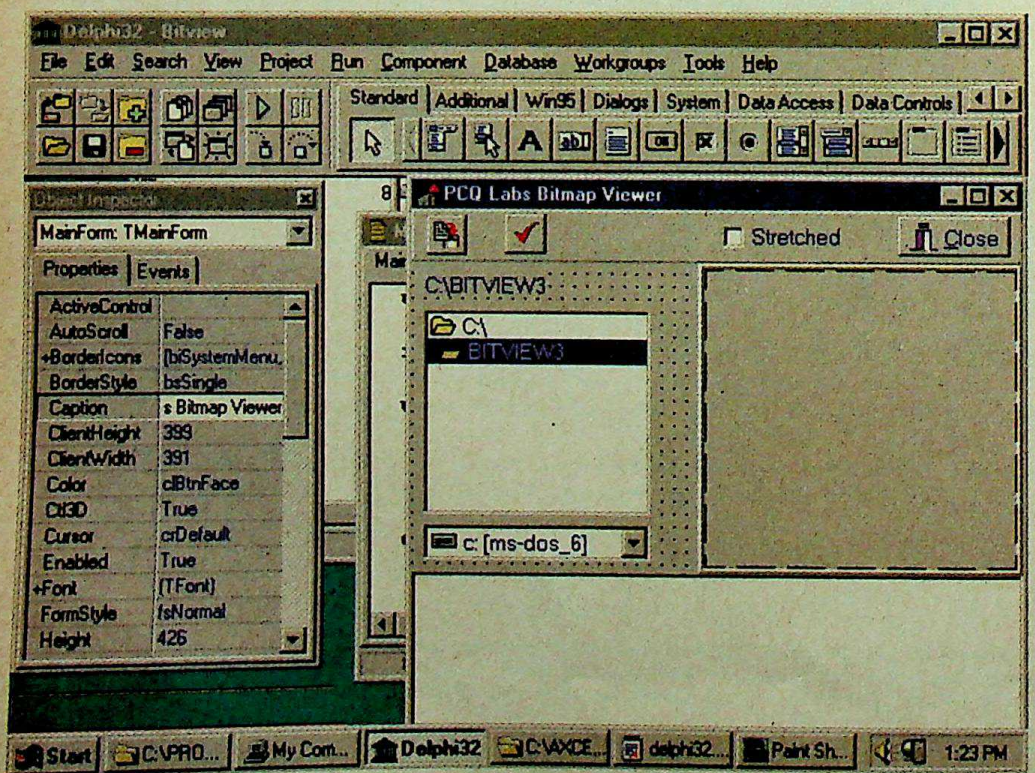
Talking about the compiler, de opers used to compiler environme would be irritated when Delphi stop at the first error encountered duri compilation. Interpreters work this The new version has fixed this with compiler giving complete error lis along with hints and warnings. you can debug your apps faster.

Operating speeds are three to times faster than Delphi 1.0. Eq important, the new linker cuts exe able sizes by 20..25 percent over predecessor.

Delphi 2.0 adheres to an open s egy. It supports OLE automa controllers and servers, including OLE Controls (OCXs), in addit Microsoft's Remote Automa technology and forthcoming Net OLE.

The number of components o palette has now increased to 10 includes OCX controls.

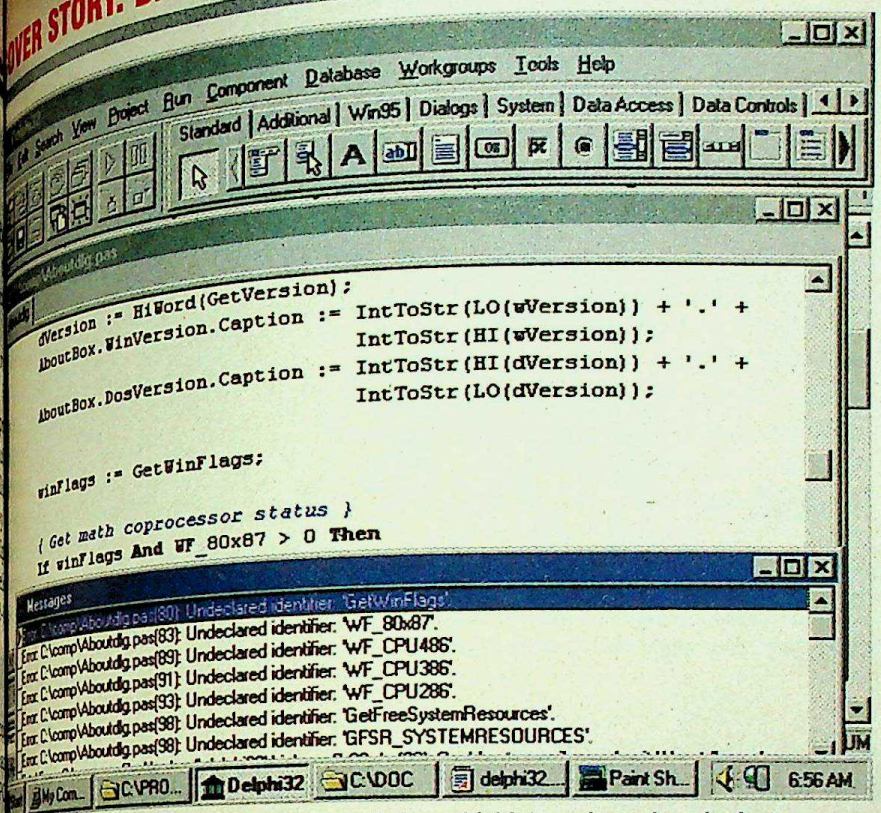
Several new components pro



Delphi's interface remains unchanged, except the component palette tabsets that are now more like the standard Win95 tabs

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Delphi 2.0 compiler provides a complete error listing, with hints and warnings for faster debugging

compatibility with the Win95 development environment. The TPageControl lets you create Win95 style tabbed dialog boxes. The TTreeView is the Win95 version of the TOutline component.

There are three new data types; long strings to let you create unlimited lengths strings, null terminated and compatible with the Windows API; a variant type to allows changing the type of variable any time (Do we see some old diehards squirm in discomfort?) besides providing support for OLE automation; and a new character type supporting the Unicode standard.

BDE 3.0

The new 32-bit Borland Database Engine supports multithreading. Different application threads can concurrently access the same table. It supports Client Data Repository. Besides other things, you can use the repository to define extended field attributes (font, size, color, etc.), that will apply to every UI object placed on a form and bound to the field.

The BDE now supports simple transactions with the local desktop engine. It has a new query engine that complies to the SQL-92 standard. With this comes live and updateable views. Finally, you can delay updates to minimize the access to the backend datasource. This is achieved by caching updates locally before sending them in batch mode to any SQL or local database.

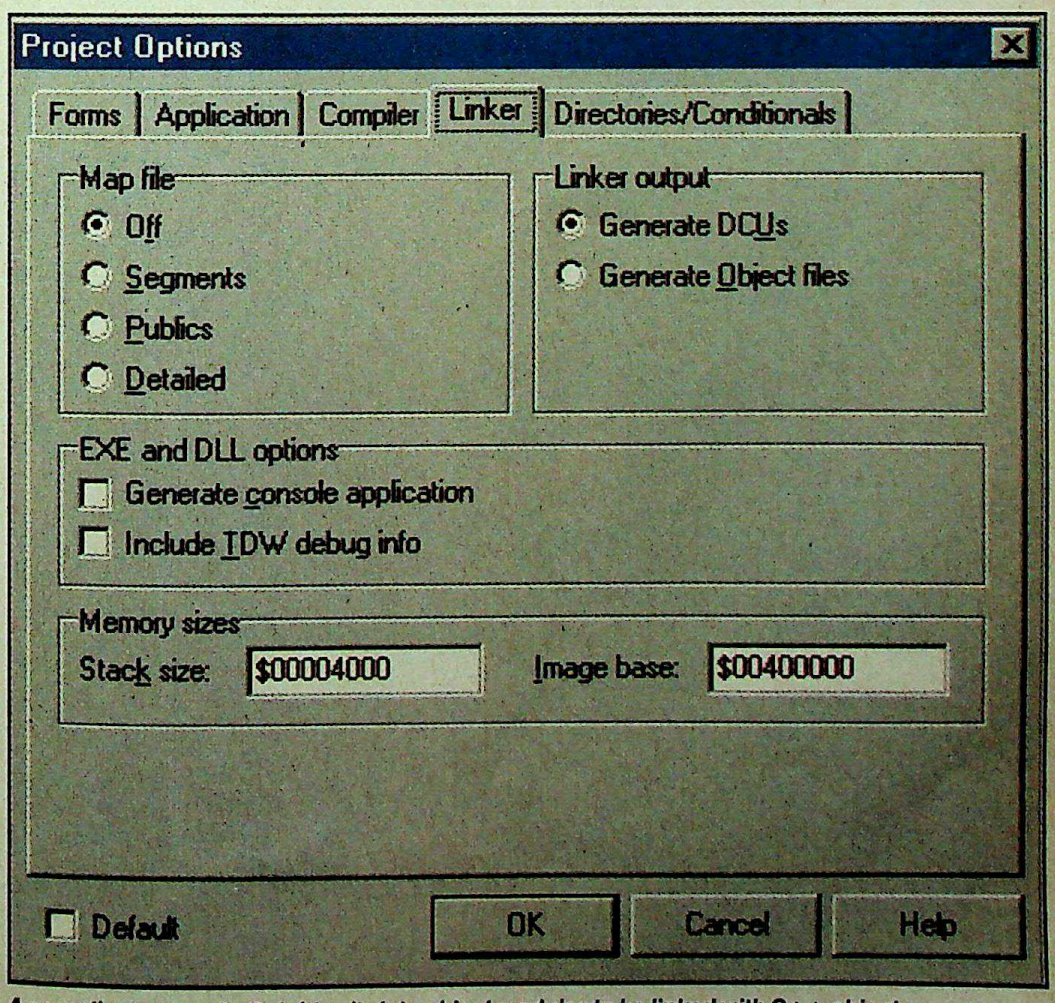
What's available: An overview

Delphi Client/Server Suite 2.0

- Central Object Repository to store reusable applications, forms and database information.
- Tools for testing and fine-tuning client/server application performance.
- SQL Monitor to optimize a client/server applications for peak performance.
- SQL Explorer that performs as the information center for all database development including browsing server-specific meta data (stored procedures, triggers, event alerters).
- Datapump Expert for rapid upsizing and application scaling.
- 32-bit SQL Link native drivers with an unlimited deployment license.
- Intersolv PVCS version control system for file management, check-in, check-out, and branching.
- Open Tools API for integration with third-party tools such as CASE, Object Oriented Analysis and Design, and Transaction Process Monitors.
- InterBase NT two-developer license with each copy.

Delphi Developer 2.0

- Object Repository to create shared



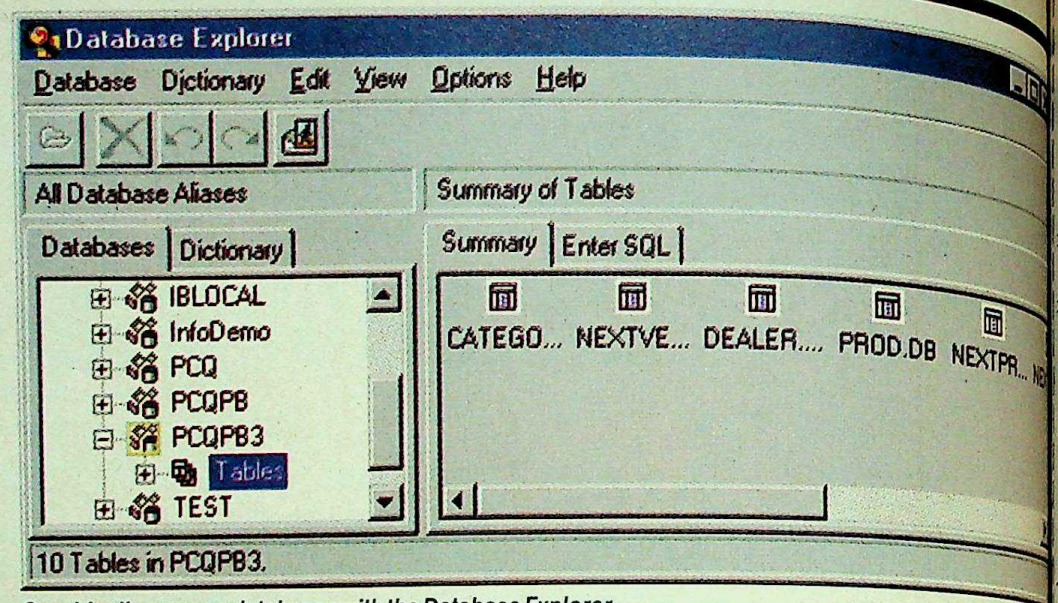
A compiler to compile Delphi units into object modules to be linked with C++ objects

CC-0. Prof. Satya Vrat Shukla Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

and reusable forms and data modules in the C/S version.

- Scalable Data Dictionary to help developers define and reuse extended field attributes through named attribute sets.
- Multi-Object Grid that allows for more flexible database applications.
- Visual Form Inheritance centralizes changes and makes code easier to maintain.
- InstallShield Express deployment expert.
- Database Explorer for graphically managing databases.
- Math library with advanced statistical and financial functions.

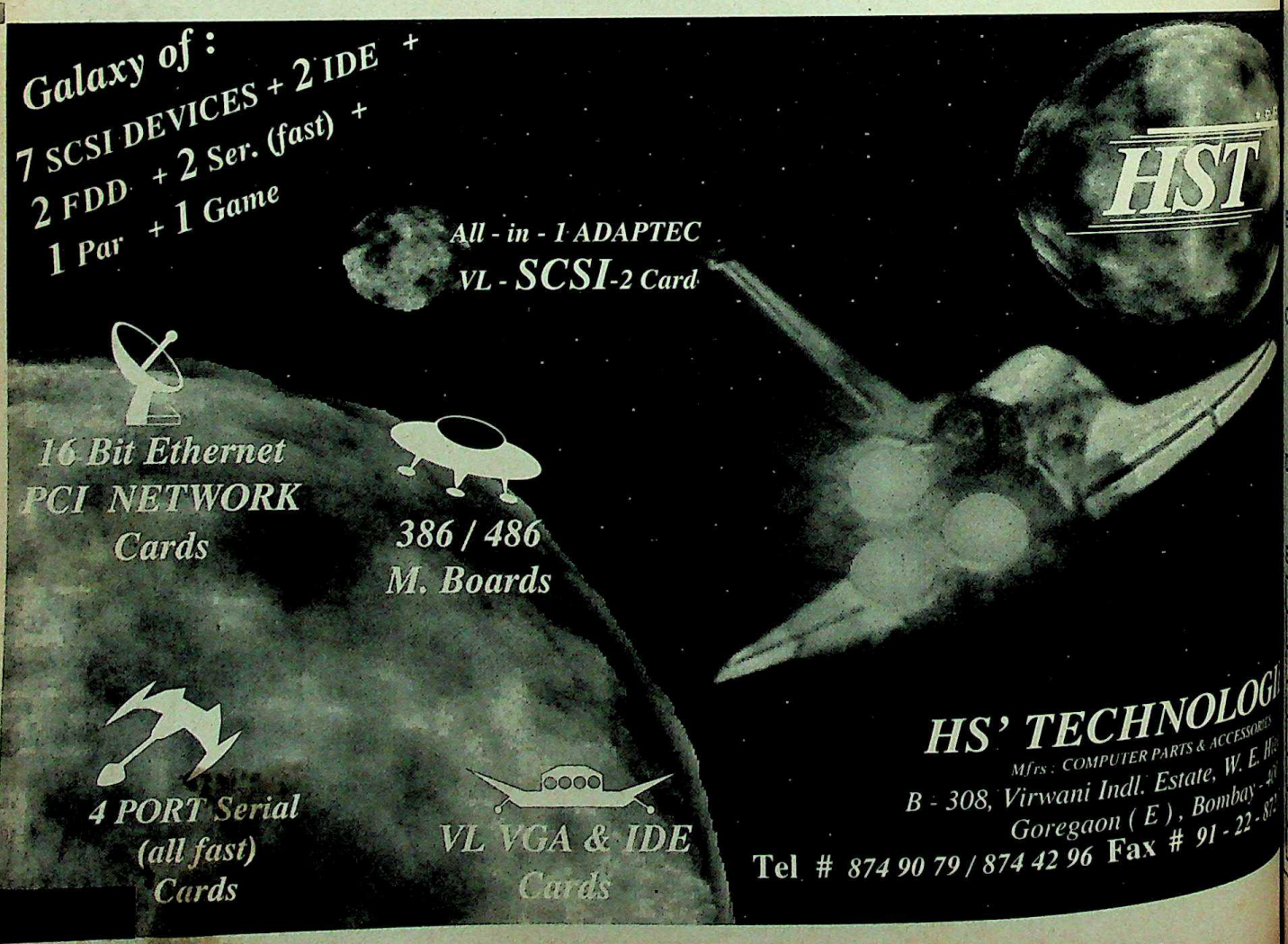


Graphically manage databases with the Database Explorer

Delphi Desktop 2.0

- Delphi Desktop 2.0 corresponds the closest to Delphi 1.0 for Windows and targets the individual.
- Supports 32-bit Win95 and WinNT environments along with the enhancements to the basic product covered earlier.

In conclusion, Delphi 2.0 is an effective upgrade that combines a neat move to the 32-bit platform. It is clear that Borland has a winner and that they are determined to build upon the technological lead they have over competing products from Microsoft and Sybase. As more corporations switch to Win32, developers too need to change to tools such as Delphi 2.0.



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

(For office use)

PC QUEST PRODUCTS ANNUAL: JUNE 1996

The Definitive Guide To Personal Computing Products

The PC Quest Products Annual is a comprehensive directory of personal computing products that is preserved, and referred to, through the year. It's simple and free. So make sure your product doesn't get left out.

*Complete this form, **complete with specs and prices**, attach the product brochure, and mail it to our regional office by **31st March 1996**.*

Please use a separate form (or photocopies) for individual products.

Send entries for products that will be available thru December 1996, in their present form or as updates

1. Product Name/Model/Version: _____

2. Type: ❒ Hardware/Peripheral/Card ❒ Software ❒ Other:_____ (Please specify)

3. This product is: ❒ Imported ❒ Made/Developed in India

4. For this product you are: ❒ Manufacturer/Developer ❒ Reseller/Dealer/Distributor

SOFTWARE

5. Category:
❒ Word Processor ❒ Database ❒ Spreadsheet
❒ Business/Office Automation ❒ DTP/Graphics ❒ OS/System SW
❒ Engg/CAD/CAM/Scientific ❒ Communication ❒ Utilities
❒ Development Tools/Compilers ❒ Vertical Application/Industry specific
❒ Other:_____ (Please specify)

6. Environment/OS:
❒ DOS ❒ OS/2 ❒ MS Windows ❒ Win NT
❒ Netware ❒ Win 95 ❒ UNIX or variant ❒ Other:_____ (Please specify)

7. Minimum hardware required:
❒ PC/XT ❒ AT-286/386SX ❒ AT-386DX
❒ AT-486 ❒ Pentium ❒ Power PC/Mac
RAM:_____ Disk space (MB):_____ ❒ Mouse

8. Price (including excise and CST) exclusive of local sales tax and octroi: _____
(Entries without prices will not be accepted.) _____

9. Brief Description of the product: (Please enter carefully, in block letters, at 1 word per box. Do not exceed 25 words)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

▶ Turn Over

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE/PERIPHERALS/ACCESSORIES

A. Category:

- ❒ Desktop/Portable
- ❒ Workstation/Server
- ❒ Printer/Plotter
- ❒ Monitor
- ❒ Diskdrive
- ❒ Communication
- ❒ LAN Equipment
- ❒ Test & Measurement Equipment
- ❒ Add-On Card
- ❒ Power Eqpt/UPS/CVT
- ❒ Media
- ❒ Accessories/Furniture
- ❒ Other: _____ (Please specify)

B. End-user price (including excise and CST) exclusive of local sales tax and octroi: _____
(Indicate clearly the **configuration/model** for which the price is given. **Entries without prices will not be accepted).**

C. **Brief Description** of product (Please enter carefully, in block letters., at 1 word per box. Do not exceed 25 words):

Name:

Designation:

Organization:

Address:

City: Pin

Tel:

Fax:

E-mail:

(Enclose your visiting card, if available, with this form.)

I declare that the information in this form is complete and correct, and will be valid till June 1996. This product (or an upgrade) will be available from us upto December 1996.

(signature and seal)

Mark the envelope **PC Quest Products Annual 96** and mail to the PC Quest Bureau in your region:

506 Meghdoot, 94 Nehru Place, **New Delhi** 110019

2 Jain Chambers, 577 SV Road Bandra, **Bombay** 400050

401 4th Floor MBC, 134 Infantry Road, **Bangalore** 560001

VII Floor Guna Buildings, 304/305, Mount Road, Teynampet, **Madras** 600018

4 Motilal Nehru Nagar, 1st Floor, Begumpet Main Rd, **Hyderabad** 500016

Souryas Business Centre, 233/3 AJC Bose Road, **Calcutta** 700020

Note: While every possible effort will be made to include a valid entry, PC Quest reserves the right to include or exclude any product without assigning any reason whatsoever.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Why are people who love Visual Basic moving up to Delphi ?

"Delphi blows Visual Basic completely away. I've accomplished more in a few days than I can believe."

Info World, Steve Gibson

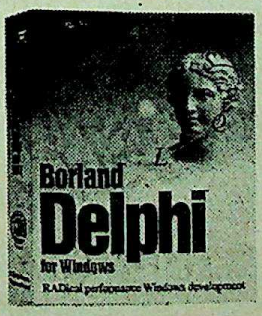
"Spend five minutes working with Delphi and you'll think you're working in Visual Basic. Spend ten minutes and you'll realize that this is Visual Basic as it has appeared only in your dreams."

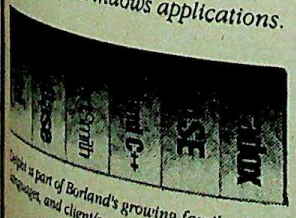
- Byte, May 1995, Raymond GaCote

The fastest way to the fastest applications

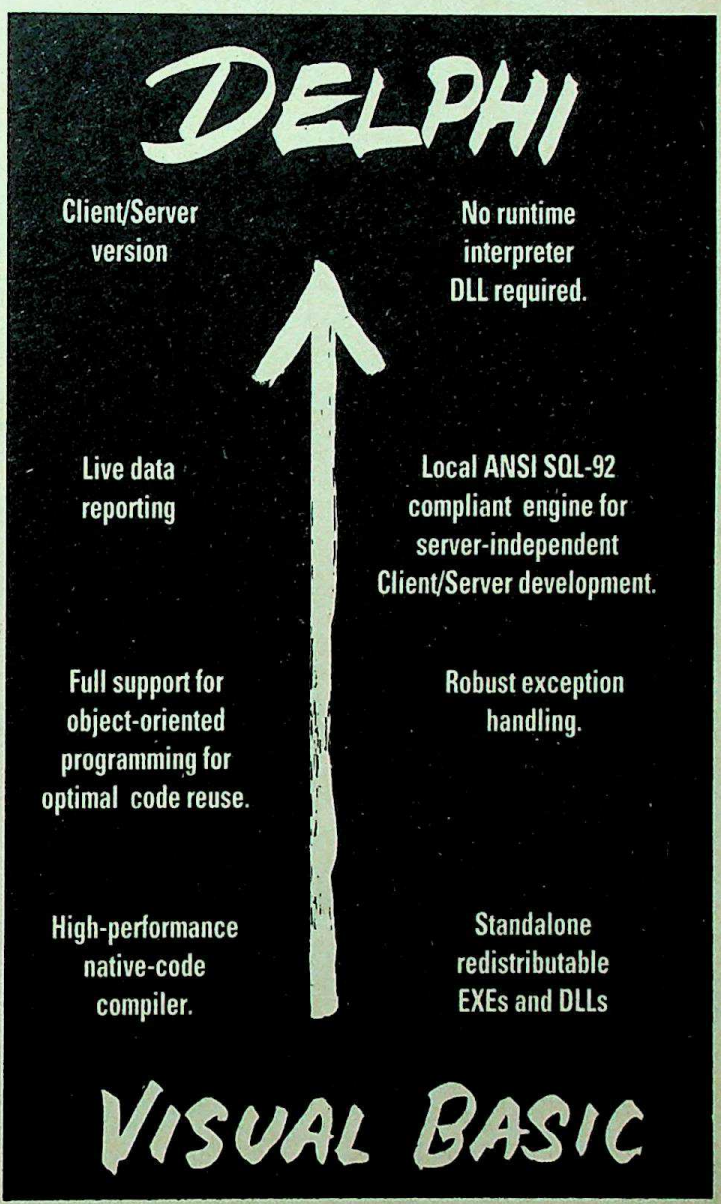
Some Visual Basic (VB) developers are switching to Delphi. Others are keeping VB and using Delphi too! As a matter of fact all of the DLLs built in Delphi can be used with other tools like Visual Basic, PowerBuilder and C++. With Delphi you can create EXEs that are up to 20 times faster than interpreted code, like VB and PowerBuilder! Only Delphi combines the most intuitive visual design environment, with the **unrivaled performance of a 350,000-lines-per-minute native-code compiler and scalable database technology.**

There's simply no faster way to prototype, build, and deploy, royalty-free and blazingly fast Windows applications.





Delphi as part of Borland's growing family of databases, languages, and client/server tools.



Yes! I am interested in Delphi. Please send me more information.

Name: _____

Designation: _____

Company: _____

Address: _____

_____

City: _____ Pin: _____

Phone: _____ Fax: _____

WIPRO / Better People. Better Solutions.

Software Products Division, 40/1A, Lavelle Road, Bangalore-560 001. Fax: 080-2218590

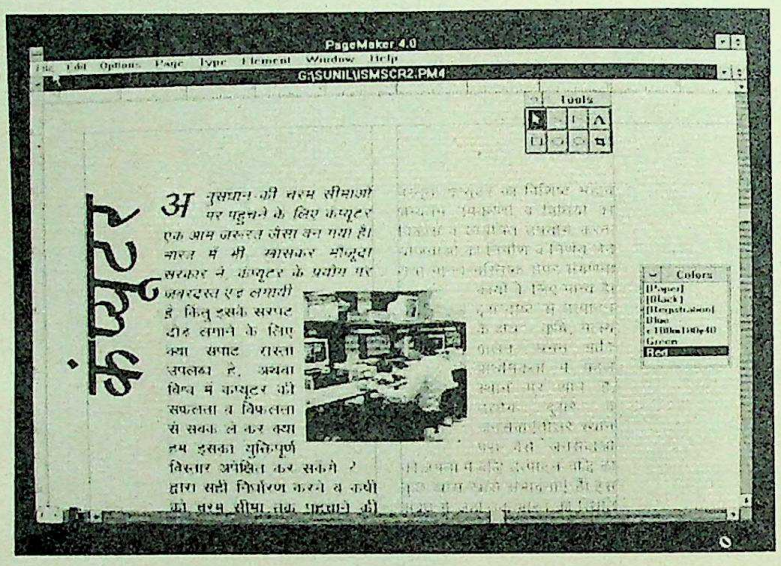
* Available as Delphi Stand alone and Delphi Client / Server

Wipro SPD Offices: ● Bangalore Ph: 2226654/2215010/2215014 Fax: 080-2218590 ● Bombay Ph: 8240966/8246863/8323660-3 Fax: 022-8323605 ● Calcutta Ph: 296579/291381/296816 Fax: 033-291076 ● New Delhi Ph: 6424126/6423624 Fax: 011-6483336/6472188 ● Madras Ph: 4356668/4995410 Fax: 044-4997067 ● Secunderabad Ph: 849548 Fax: 040-811478

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Now Software fo
proudly at par with



Page Maker Screen

ISFOC Script Manager (ISM) for MS-Windows / Video Graphics / Macintos

- An Indian language interface to MS-Windows based applications such as MS-Word, PageMaker, CorelDraw, 3D Studio, etc.
- Offers a rich repertoire of aesthetic True type & Post Script fonts in all the Indian scripts.
- Ideal for publishing, newspapers, advertising agencies, multimedia applications.

Salient features of GIST Software

- Allows simultaneous use of Indian scripts,English and diacritic Roman.
- Supports **Assamese, Bengali, Devanagari, Gujarati, Kannada, Tamil, Oriya, Malayalam, Punjabi, Telugu, Tibetan, Bhutanese and Sinhalese.**
- Unique Spell-checking facility in ALP & LEAP.
- Phonetic typing of all Indian Scripts using the BIS/DOE INSCRIPT keyboard overlay.
- User configurable keyboard.
- Aesthetic Keytop labels.
- Novell Netware version available.
- Site licencing available.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

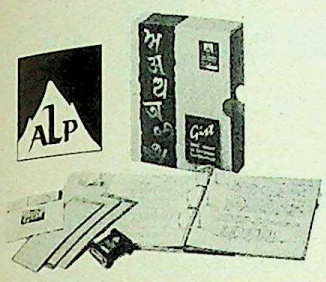
AUTHORISED DISTRIBUTORS FOR GIST SOFTWARE **Ahmedabad:** Shreedip Services Pvt. Ltd. **(079)** Ph.:407173 Fx.:6425570 **Amravati:** D.P. Systems **(0721)** Ph.:555902 **Bangalore:** Pegasus Software Consultants Pvt. Ltd. **(080)** Ph.:2215307 Fx.:2213281 ■ Transmatic Systems Ltd. **(080)** Ph.:2220619 **Baroda:** Shreedip Services Pvt. Ltd. Ph.:2882960 Fx:2873314 **Bhopal:** Turning Point Systems **(0755)** Ph.:565147 Fx:558342 **Bhubaneshwar:** Oritech Systems Pvt. Ltd. **(0674)** Ph.:406180 **Bombay:** Lipi Data Systems Ph.:706175 **Calcutta:** Comp-U-Graphics **(033)** Ph.:4756768 ■ Rahul Commerce (P) Ltd. **(033)** Ph.:4408926 Fx.:4408935 **Chandigarh:** Alsun Systems **Coimbatore:** Transmatic Systems Ltd. **(0422)** Ph.:43916 **Guwahati:** S.M.Computer Consultants **(0361)** Ph.:522156 Fx:522156 **Kanpur:** Quark Computers

Digitized by Arya Samaj Foundation Chennai and eGangotri

ndian Scripts stand
the best in the World !

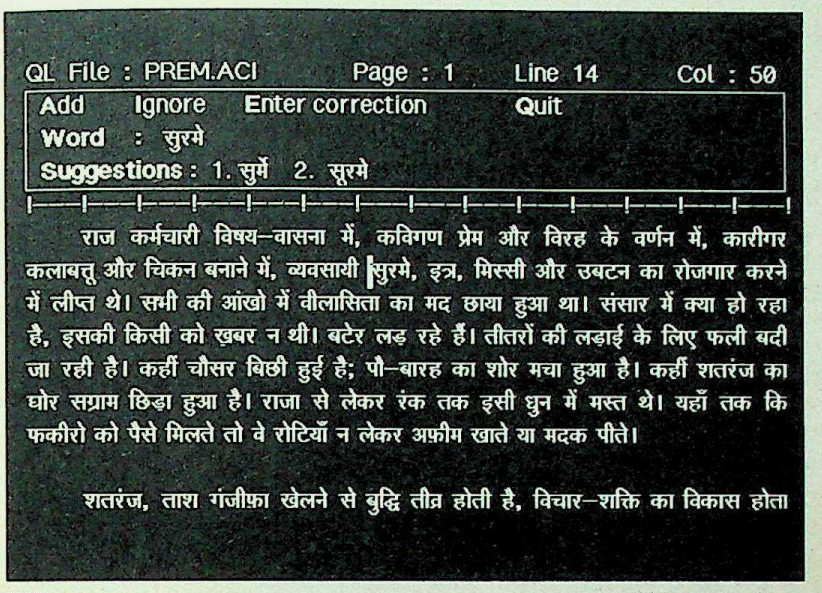
CDAC
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Gist
Nurturing the living Languages



PEX LANGUAGE PROCESSOR
LP) for DOS/UNIX

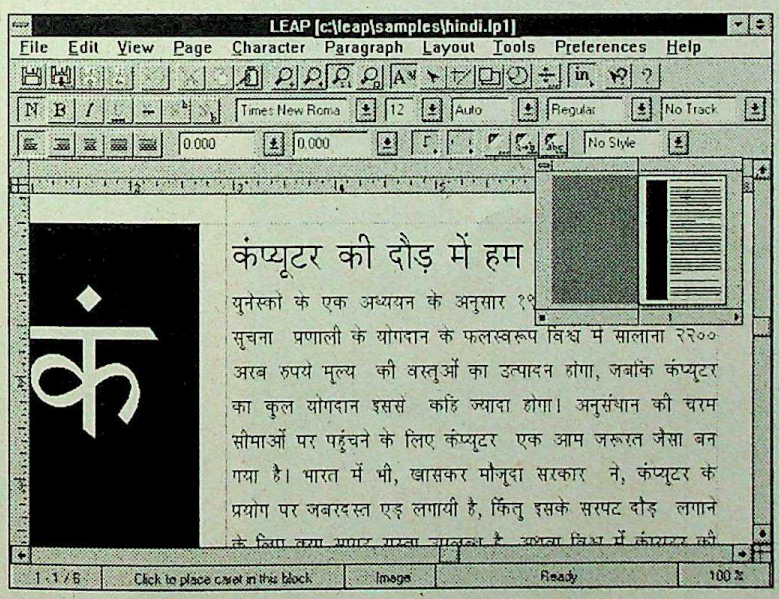
ord processor on DOS/UNIX platforms.
rdStar 4.0 compatible commands.
Special features such as Mail Merge, Macros, easy generation of table of contents and many more.



ALP Screen

EAP

Complete Word processor under MS-Windows specially designed to work with Indian Scripts.
Edits, composes, prints and allows exchange of text in Indian scripts.
Ideal for publishing bulletins, reports, etc.



LEAP Screen

For further details contact :

CDAC Gist GROUP

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
Ganesh Khind, Pune 411 007.
Tel.: (0212) 357020, 352461/79/83, 350484,
Tlx.: 0145-7615 CDAC IN, Fax.: 91-212-357551
e-mail: gist@parcom.ernet.in

All brand names and trademarks are properties of their respective owners.

Ph.:217598 Fx.:548576 **Kolhapur:** Print Aid Centre (Pune) Pvt.Ltd. **(0231)** Ph.:672149 **Madras:** Quark Computers Pvt. Ltd. **(044)** Ph.:611641 Fx.:613526 ■ Systems Ltd. **(044)** Ph.:4990544 **Madurai:** Transmatic Systems Ltd. **(0452)** Ph.:27358 **New Delhi:** Alsun Systems **(011)** Ph.:6473306 Fx.:6438780 ■ C-three-i Pvt.Ltd. **(011)** Ph.:6821533 Fx.:6843309 **Pune:** Priya Informatics Pvt. Ltd. **(0212)** Ph.:449297 ■ Cyber Space Systems & Solutions Pvt.Ltd. **(0212)** Ph.:657347 **Raipur:** Priyanka Computer Services **(0771)** Ph.:535817 Fx.:534957 **Trivandrum:** Transmatic Systems Ltd. **(0471)** Ph.:433805 Fx.:432465 ●●● **BHUTAN,** Centre for Computer Application **(009752)** Ph.:22789 Fx.:22098 **U.K., Huddersfield:** Lingua Languages Services **(0044484)** Ph.:689494 Fx.:689594

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

"I need the best in graphics." The answer is COREL

"I need CAD solutions." The answer is DesignC

"I need easy morphing tools." The answer is GRYPHON

"I need quality multimedia tools." The answer is Asymetrix

"I need powerful DTP solutions." The answer is Serif PagePlus 3.0

"I need statistical tools." The answer is StatSoft

"I need a range of utilities." The answer is SYMANTEC

"I need edutainment for children." The answer is LONGMAN ASIA MULTIMEDIA

"I need solutions for S/W sizing." The answer is CHARISMA SOFTWARE METRICS

"I need voice processing systems." The answer is ACTIVE VOICE

"I need computer education." The answer is CSET

"I THINK I NEED MORE." The answer is

SVAM Software Ltd.

Software Development ● Total Solutions

NEW DELHI
70, Janpath,
New Delhi-110 001.
Ph. # 011-3731844-45
3320224, 3324551,
Fax # 011-3723266

BANGALORE
84/2, S.T. House,
IInd Floor,
Richmond Road,
Bangalore-560 025
Ph. # 080-2240396
Fax : # 080-2240397

SVAM SOFTWARE LTD.

BOMBAY
104, Adarsh, 1st Floor,
86, Main S.V. Road,
Santa Cruz (West)
Bombay - 400 054
Ph. # 022-6462053
Fax # 022-6487845

CALCUTTA
Flat No. 306, B-Block,
Mansarovar Building,
Camac Street,
Calcutta - 700 016
Ph. # 033-292260
Fax # 033-2429044

USE LEGAL SOFTWARE AND AVOID

Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

Lotusphere: Notes Comes To The Net

Notes R4 has a friendly interface, Internet capability and support for components

The newest version of Lotus' messaging and workgroup software has headed mainstream, with a friendlier interface, Internet support, and components.

On the day of the launch at Lotusphere 96 in Florida on January 22, it was clear how much Lotus—and IBM—were relying on the product. Before the 3,000-plus audience, IBM chief Lou Gerstner kept referring to it as "Lotus Release 4". And another major product—SmartSuite 96—was uncovered much later from under a "Notes 4" wrapper on a giant-size, metaphoric gift on the stage.

As the definitive groupware app, Notes is the only occupant of an interesting, and growing, application niche. Aside from being the one major corporate-productivity area where Microsoft has no presence (its Exchange is essentially a messaging product—fax and mail), it can change the way an organization works in a way very different from a standard prouctivity app. This is a network product that becomes a medium for tracking and managing the workflow of a company. But that's if a company adopts it in the first place. It's traditionally seen as a daunting, complex product, not quite an end-user shrink-wrapped app.

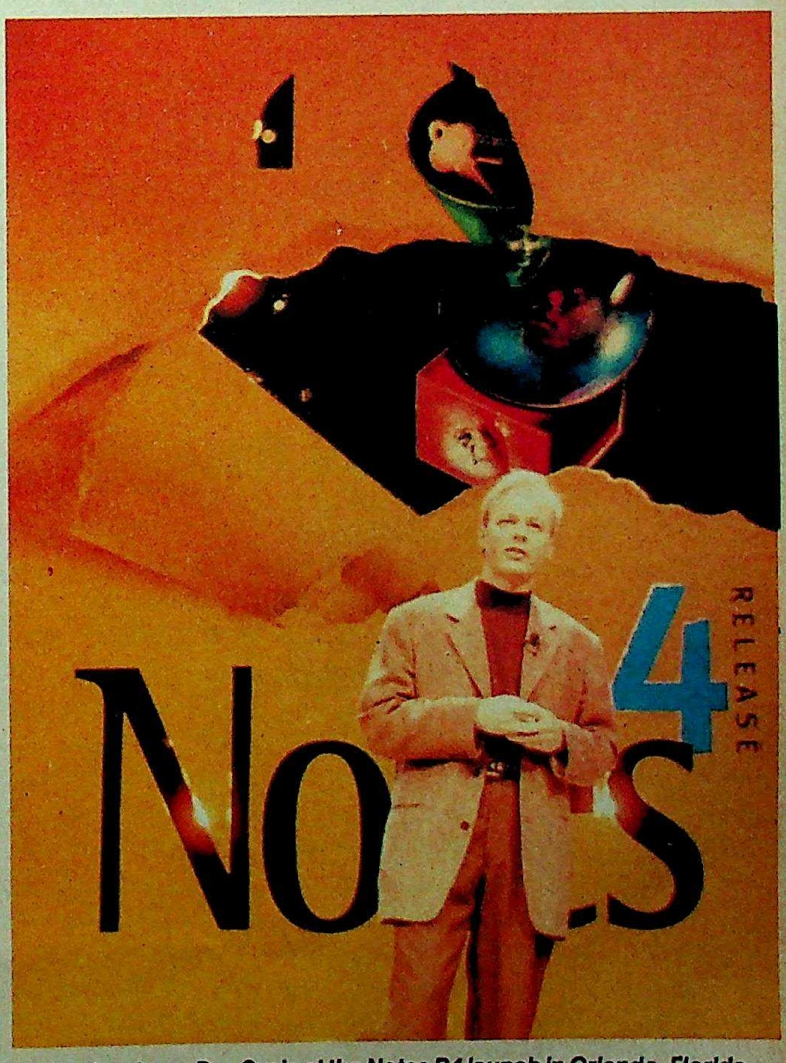
That's one of the several concerns Lotus has tried to address with R4. It's tried to bring in a friendlier interface, add interesting features that could bring it mainstream both as an Internet-capable groupware product and a component-capable development environment.

Internet Support

This hasn't exactly been one of Lotus' and Notes' strong points. So it was interesting to find everyone from Gerstner to Notes chief developer Ray Ozzie taking about little but the Web and Notes' integration with the Internet, and a part of the Lotus vision for many years. If it was indeed so, they did a good job of keeping it a secret.

Yet Internet support now appears to be a clear part of Notes, with several new enhancements. Among them are the InterNotes Web Publisher and Navigator, to be integrated into the Notes server and client, and the smooth integration of URL support with several Lotus products such as cc:Mail. Lotus is also "previewing" Sun's Java language for integration into the Web-related Notes companion products, especially the browser. Java support isn't part of R4, but is probable "along the way, well before R5," as Ray Ozzie put it. And he also compared Notes...to the Web. "Both are based on the concepts of a rich document-oriented database, fielded forms and document linking. So Notes is ideally suited as a platform for Web apps. What has been missing in Notes is the direct support of Web protocols. Now Lotus will...directly incorporate key Internet and Web standards HTTP, HTML and Java, into the Notes architecture, so that Web developers can leverage the mature groupware functionality of Notes to reach non-Notes clients via Internet protocols and formats." (This document is now available at http://www.lotus.com/mediadv/inwhtp.htm.)

Because the InterNotes Navigator is integrated with Notes, users in an orga-



Notes developer Ray Ozzie at the Notes R4 launch in Orlando, Florida.

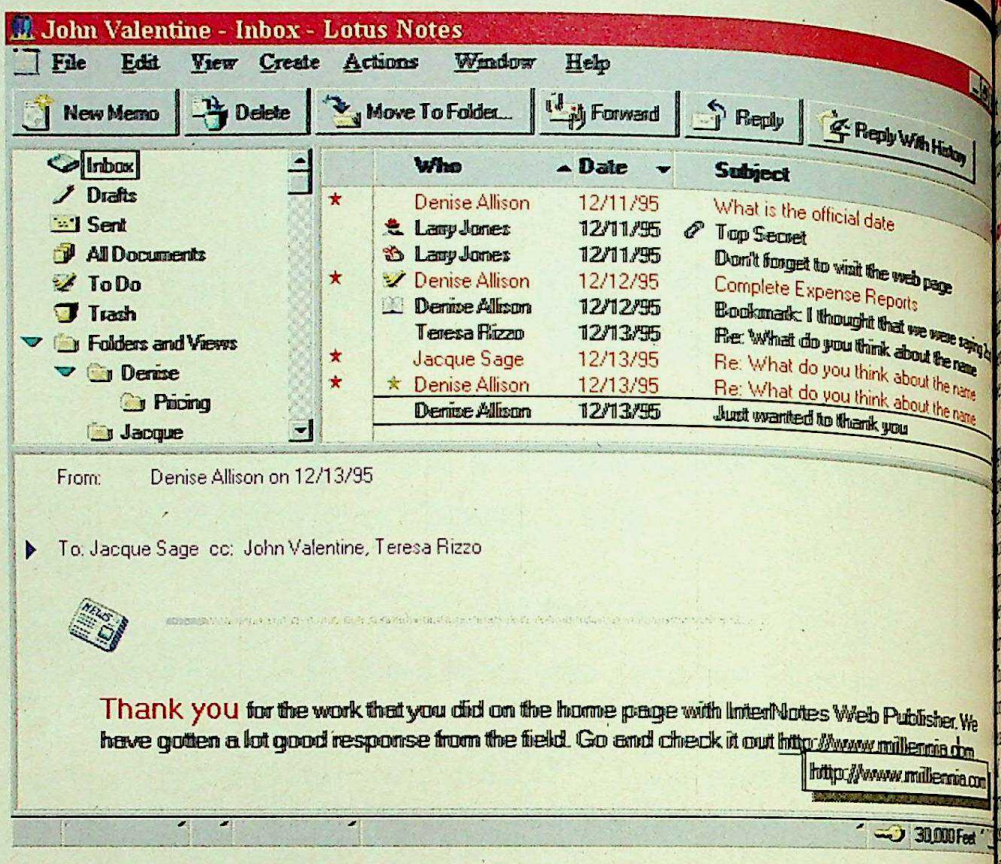
CC-0. Prof. Satya Vrat Shastri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

nization can, apart from surfing the Net, put their time spent to group use—for instance, by echoing URLs or entire HTML or other documents to other users on their network, through Notes. This is simple enough, but could indeed become useful as organizations become more dependent on the Web for information.

Lotus outlined plans for a set of Notes-base "eApps" (electronic application frameworks), building-blocks aimed applications like at publishing information via Notes to the Web. The first eApp, available before mid-1996, is Notes:Newsstand, based on the bundle Lotus will deliver in 1996 first quarter—an HTTP server, the InterNotes Web Publisher, and a Notes server.

In fact, reports suggest that the delay in the Notes R4 release was due to integration of Internet capability, though Ozzie did not acknowledge this when asked by PC Quest.



The Notes Mail inbox screen now lets you view the messages directly as you browse them, in a third Windows. You can also mail URLs directly, so the recipient can click on the URL and go straight to the referenced site

Notes faces another indirect, but interesting threat: from NetScape Server, used within an office network for internal information sharing. Though as a workflow-capable groupware product Notes is clearly a superset of an HTML server, the fact is that many companies see in-house information sharing (network publishing) as a primary requirement, and easier to achieve than workflow process automation.

Ozzie acknowledges this to be a fact at present. "But the situation changes the moment you have more than one server in a network," he says. "Then the cost of ownership goes up significantly, far more than the equivalent costs of Notes setup."

Security in Notes

The Notes R4 International edi is shipping with 64-bit equivalent cryption, which is virtually impossi to crack. According to Ozzie, Notes u a new technique called "differen workfactor cryptography". This al the international R4 edition to use encryption key equal in strength to 64-bit key in the North American tion, without the use of "key esc technologies. (The US Government not allow the export of true 64-bit cryption technology.)

Ozzie explained that in the inter tional edition of R4, whenever an crypted 64-bit bulk data key is ge ated by the product, it is bound "workfactor reduction field," giving U.S. government exclusive access of the 64 bits. When using the edition, full 64-bit encryption is yed without the "workfactor redu field." The two editions of Notes are interoperable. Ozzie, however, po out that a substantial rethinking cryptography policy was necessary

cc:Mail Release 6

At Lotusphere 96, Lotus announced the Beta 2 of cc:Mail Release 6, which was also installed and in use at the conference. The release is up to 170 percent faster when sending a message (vendor claims).

The cc:Mail Release 6 Windows client includes calendering and scheduling. Specifically, it includes Lotus Organizer 2.1, letting users automatically schedule meetings and resources. For instance, you can send an e-mail request for a meeting to five people, after choosing, say, 3:00 p.m. cc:Mail would invoke the network scheduling module and "check availability" from the schedule of the invitees. If it finds that two of the people involved are not available, you can ask it to suggest the earliest time when all five are available. Very powerful.

Release 6 also adds electronic forms and workflow capability, including bundled form templates that include expense reports, travel itinerary, and computer hardware/software requests.

With 9 million installations worldwide, cc:Mail continues to be a strong product for Lotus, despite the increasing integration of messaging within Notes itself. Release 6 is scheduled to ship in May.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

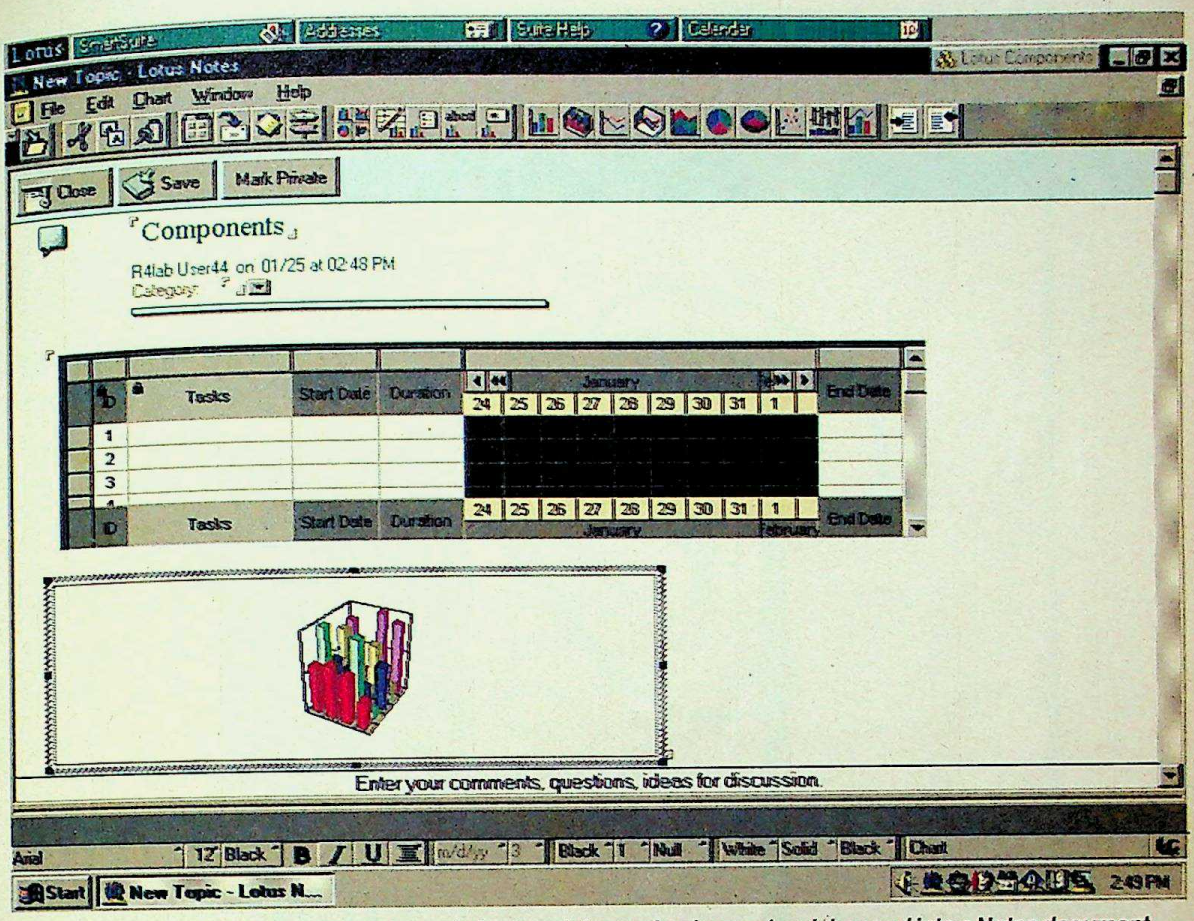
present it put software the same category as clear missiles".

tus Components

This is probably the most eresting development as as this release is con- ed: support for compo- ts.

Components are little plets, small modules that e focused on some spe- task or activity. Com- nents have been making ps development easier for elopers, with object en- onments such as Delphi. e idea is that if a clock, r instance, needs to be ured in a large number apps, it makes sense to ate a component module that clock. Then later, a eloper can simply drag d drop that module into s base application.

The best part about com- nents is that thousands of different elopers, who have never seen each other, could be writing them, and other people can use those components in their apps. With such reusable, customizable components, software development becomes a lot easier, because the developer can focus on what's needed rather than how to get it done—somebody has already done that work for him.

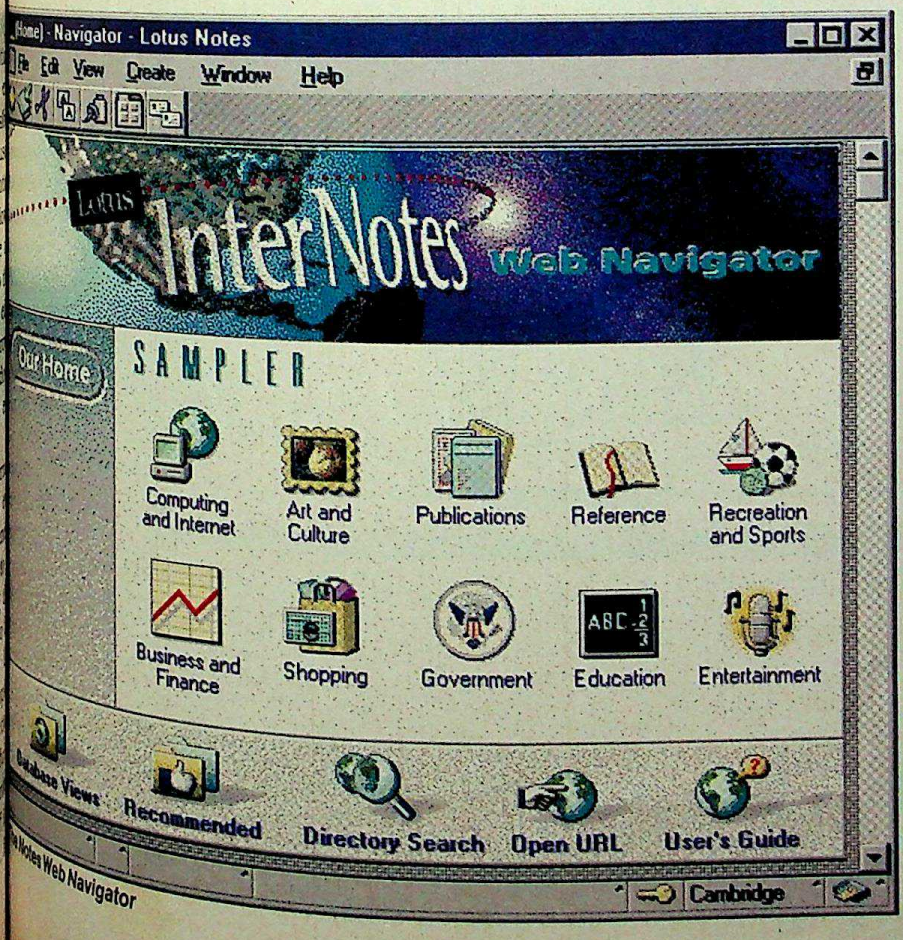


Components, such as these scheduler and chart applets, can be dragged and dropped into a Notes document

Lotus Components for Notes are little applets such as spreadsheets and charting modules, which you can drag and drop into a Notes document. You can then get a small spreadsheet embedded into the Notes documentation, or a chart module, or anything else. When you use those components, the menus change accordingly.

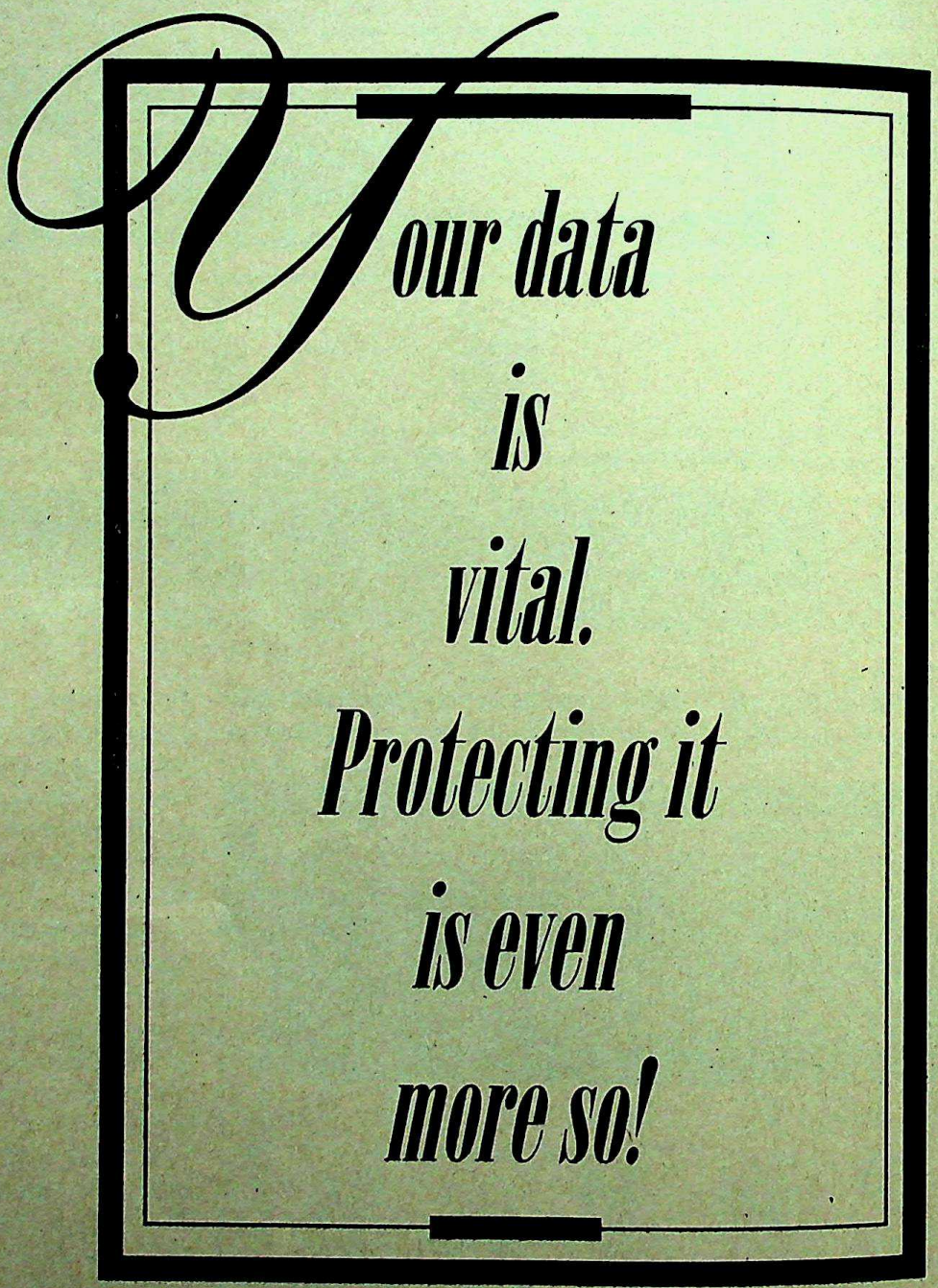
A starter pack from Lotus gives you the basic modules: chart, data query, draw and diagram, file viewer, comment tool, project scheduler, spreadsheet. That's not yet very exciting, but the more interesting possibility is that of many other developers creating Notes components. If that happens, and if we begin to find freeware Notes components on the Internet and on BBS systems, that could be a development more significant for Notes than all the Web support.

PKR in Orlando, Florida



CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

RED ALERT
COMPUTER VIRUS DEFENCE SYSTEM

N & N Systems and Software, a technically advanced company, focussing on Anti-Virus & Management Solutions, is perhaps the only true Anti-Virus Solutions and Strategy provider in the country.

Here is where we come in

With almost 200 viruses being produced a month across the world, Anti-Virus protection is no longer an aspect that concerned Management or EDP/MIS Professionals can afford to ignore.

*Mr. Neville Bulsara, India's acknowledged leading Anti-Virus researcher and author of the much acclaimed **RED ALERT** puts it in perspective when he says "Anti-Virus Defence is not just about Anti-Virus Software it's about a complete Anti-Virus Strategy".*

Out Award winning product Red Alert, India's leading Anti- Virus Software; The Internationally acclaimed DR. SOLOMON'S range of products; A sound management team and some of the most knowledgeable Professionals in the field, make us the Anti-Virus company of choice for corporate giants such as Coke, Pepsi, The Tata Group, Lloyds Group, ITC Group etc. With a country-wide Distribution and Dealership network, an impressive product range and a wealth of experience in this industry, N & N Systems and Software is the # 1 Anti-Virus Solutions and Strategy Provider in India today.

VISIT US AT
PC EXPO
BOMBAY
3-6 JAN 96
BANGLORE
16-20 JAN 96

N & N
Systems & Software

NOT JUST ANTI-VIRUS SOFTWARE - ANTI-VIRUS STRATEGIES.

#105, 1st Floor, Om Chambers, 123, August Kranti Marg,
Kemps Corner, Bombay 36. Tel : 368 05 12/17/18. Fax : 368 05 13.

A NEVILLE BULSARA AND NADIR KARANJIA VENTURE !

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Visual dBASE 5.5

Visual dBASE 5.5 is more stable than dBASE for Windows

dBASE for Windows was a bold move by Borland to move dBASE faithfuls to the world of OOPs, Windows and event driven programming. Visual dBASE concentrates on removing the tangles this shift caused while leveraging current technology trends.

Borland has significantly enhanced the product. You can compile applications to P-code executables using a standalone compiler. This however tightly integrates into with the Visual dBASE environment. An Application Deployer makes it easy to package and distribute your application.

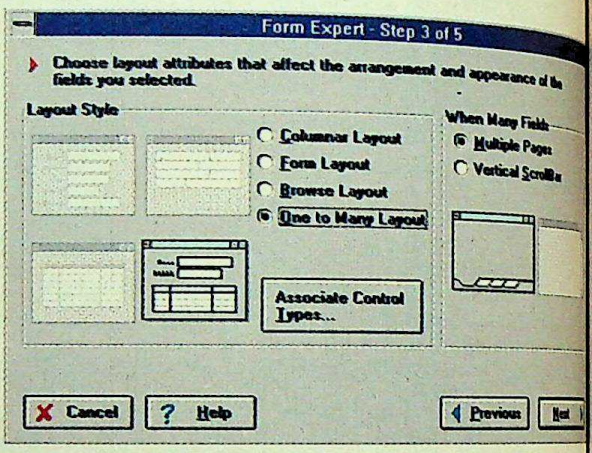
The product itself runs twice as fast as dBASE for Windows. And comes with more visual tools and improved database support. You require a 386 or higher PC, 8 MB RAM and 29 MB free disk space to install this product. Here's a closer look.

Enhanced Visual Tools

IMPROVED EXPERTS

The Form Expert has been improved. It supports four different layouts—columnar, form, browse, and one-to-many. You can opt for a scrollable single page or tabbed multipage forms.

New is the Table Expert that lets you create tables using a sample table as your template.



The form expert is now a lot better. It supports four different layouts - columnar, form, browse, and one-to-many and you have the choice to opt for a scrollable single page form or a tabbed multipage form

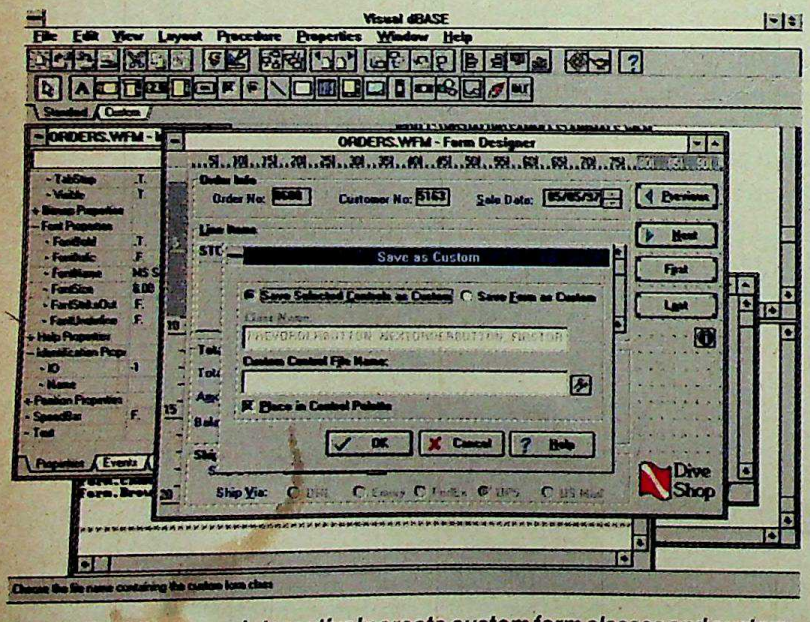
FORM DESIGN

Designing a form in Visual dBASE is no different from other visual environments. You select a control from a control palette and drop it on the form. You then use an inspector to set control properties and write event handlers and methods.

New is the Field Palette that allows associating a control type with a field type. There are new classes such as the MenuBar class. This works with the menu designer to let you cre... Edit and Windows menus for MDI a... plications. A popup class creates pop... menus that appear on demand. A ... sual array builder lets you create ta... arrays for list and combo boxes.

CUSTOM CONTROLS

Visual dBASE lets you interactiv... create and save custom form and co... tom control classes, for reuse later. ...



Visual dBASE lets you interactively create custom form classes and custom control classes, save them, and reuse them. For example, if you repeatedly use a set of buttons on your forms you could create a new class

example, if you repeatedly use a set ... buttons on your forms you could crea... a new class. This is how it works. Y... use the Form Designer to create t... group of buttons you want to sa... Select the group in the Form Design... and choose File | Save as Custom (S... illustration). To reuse a custom contr... Choose File|Set Up Custom Contr... to display the Set Up Custom Contr... dialog box, then complete the dial... box and choose OK.

VISUAL INHERITANCE

When you create a form in Visu... dBASE, the Form Designer opens ... new, empty form by default. The For... Designer uses the Form class as t... base form for all new forms. You c... create a custom form and specify it as ... new base form for use in the For... Designer. For example, if you want mu... forms in your application to have ... similar look and feel, you can specify ... the common attributes for those form...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Atlast, a UPS different from the ordinary.

(Shown here in actual size)

ANDY DIRECT/RP.53

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

such as colors, size, controls, and so forth, once. When you have established all the common attributes, save that form for future use as a base form. To reuse a custom form class as a new base form class you set it up using a menu option

DATABASE

The database support is now stronger with Security, easier specification of referential integrity rules and improved performance.

SECURITY

New with Visual dBASE is database security and data encryption. There are three levels of security

- At the first level you can enforce Login security and restrict user access to Visual dBASE itself unless he or she user clears login security.
- At the second level you can encrypt the data and scrambles dBASE tables so that unauthorized users can 't read the information.
- At the highest level you can opt for full table and field security built around user groups. Access to tables is determined through the group specified by the user at the time of login. Field level privileges are determined by the access level of the user within the group. A user's ability to access a table is a function of both the access level of the group and the user's individual access level. However, only the user's access level determines what the user can do with a table once it is opened.

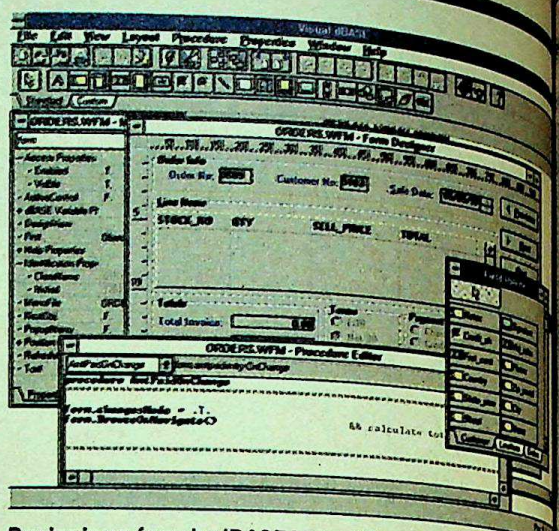
REFERENTIAL INTEGRITY

As before, you can only define referential integrity if you are using Paradox tables or working with a remote datasource which supports the feature. What is new is the ability to define integrity rules using a dialog box. (See illustration)

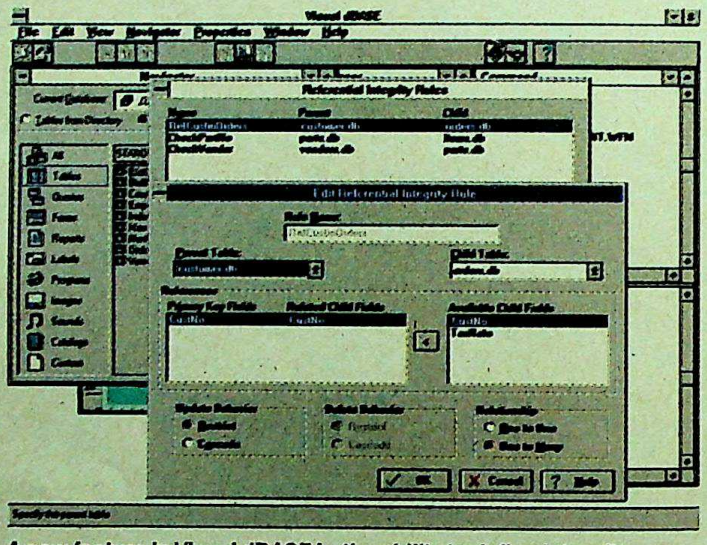
PERFORMANCE

Visual dBASE uses a filter optimization process called SpeedFilters to increase access speed when selecting a subset of records from a table or tables. Speed is enhanced for both "global" filter conditions (SET FILTER TO) and "local" filter conditions (a FOR clause). SpeedFilter optimization occurs automatically when certain conditions are met. In cases where the filter can be fully optimized, you will see the benefits immediately. In other cases, the SpeedFilter is constructed the first time a command is processed, so the benefit occurs the second and subsequent times you work with the data (see the examples below).

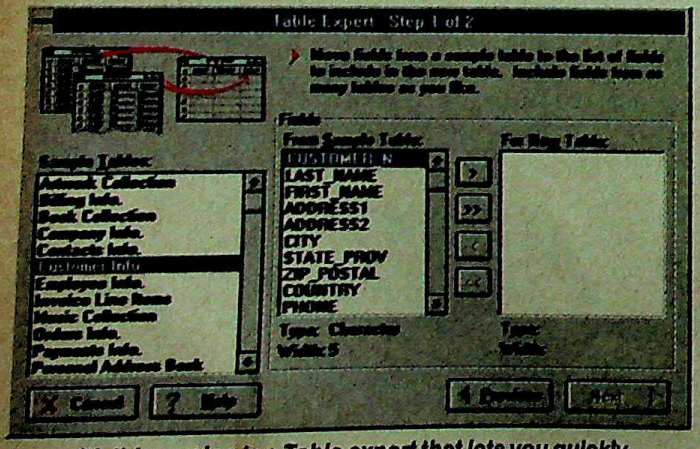
The current version of the BDE that ships with Visual dBASE is less capable then the engine of competing products such as Fox... However, the BDE is shared ... all Borland applications and ... continuously being upgrad... The 32 bit version of the BDE ... a major improvement (See ... write up on Delphi 2.0 in ... same issue) and future 32 ... versions of the Visual dBA... will benefit from the upgrad...



Designing a form in dBASE is no different from doing it in any visual environment. You select a control from a control palette and drop it on a form. You then use an inspector to set the properties of the control and write event handlers and methods. New with this version is the Field Palette that lets you set associate a control type with a field type



A new feature in Visual dBASE is the ability to define integrity rules using a dialog box



New with this version is a Table expert that lets you quickly create a table using a sample table as a template

SQL SUPPORT

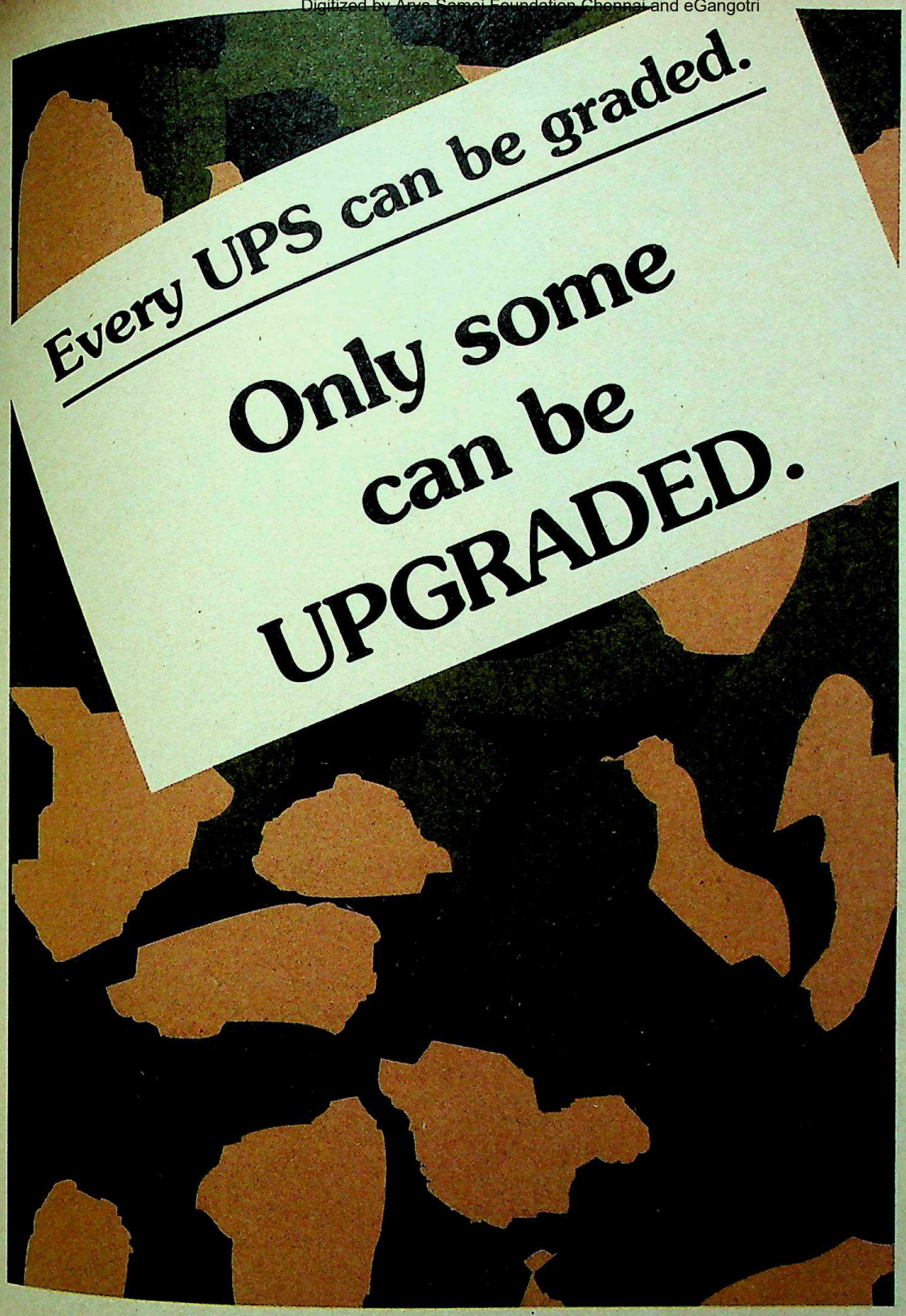
Visual dBASE can acces... SQL servers using either ODB... or Borland SQL-Link drive... which are available f... InterBase, Oracle, Sybas... Informix and Microsoft S... server. Using the drivers dBASE ... access all the features of the backe... server such as stored procedures a... transaction isolation levels. Stored p... cedures are handled like functions ... DLLs. The procedure is first declare... using the EXTERN keyword before ... can be executed.

A GOOD UPGRADE

Visual dBASE is a good upgrade ... signals Borland's intention to contin... ously work at their product range to g... their clients a good deal. A visual en... ronment and good connectivity ... dBASE users keep up with the big ... developers.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



SAFEPOWER COMMANDO entry level 280 VA & 425 VA UPSs are upgradable to 650 VA to accomodate your enhanced power needs. And this, by paying only the differential in the prevailing List Prices of the models ! The entire SAFEPOWER COMMANDO range comes loaded with features •150 V - 275 V input voltage range •Long inbuilt battery back up • Power-fail warning & automatic shutdown with Safeware Lite (optional)•Competent service team to provide the full level of the pre-announced service options.

SAFEPOWER COMMANDO

280 VA, 425 VA, 650 VA, 800 VA

Line interactive design

AJMER : 423453 / 423542 ALLAHABAD : 608374, 600301 AMRITSAR : 548392 CALCUTTA : 724865 / 726733 CHANDIGARH : 706175 CUTTACK : 614292 DEHRADUN : 657119 GHAZIABAD : 754851 GWALIOR : 322911 JAIPUR : 601953, 563097 JALLANDHAR : 271872 / 3 JODHPUR : 37586, 32585 KANPUR : 214039, 296302 KOTA : 421247 LUCKNOW : 218351, 78643 LUDHIANA : 456891 MEERUT : 540874, 540894, 642012 RANCHI : 205360 UDAIPUR : 526987 VARANASI : 351133, 355288

84, Khijrabad, New Friends Colony, New Delhi - 110065.Ph.: 6835523, 6919387, 6918908, 6911566.Fax: 6918908, 6834299

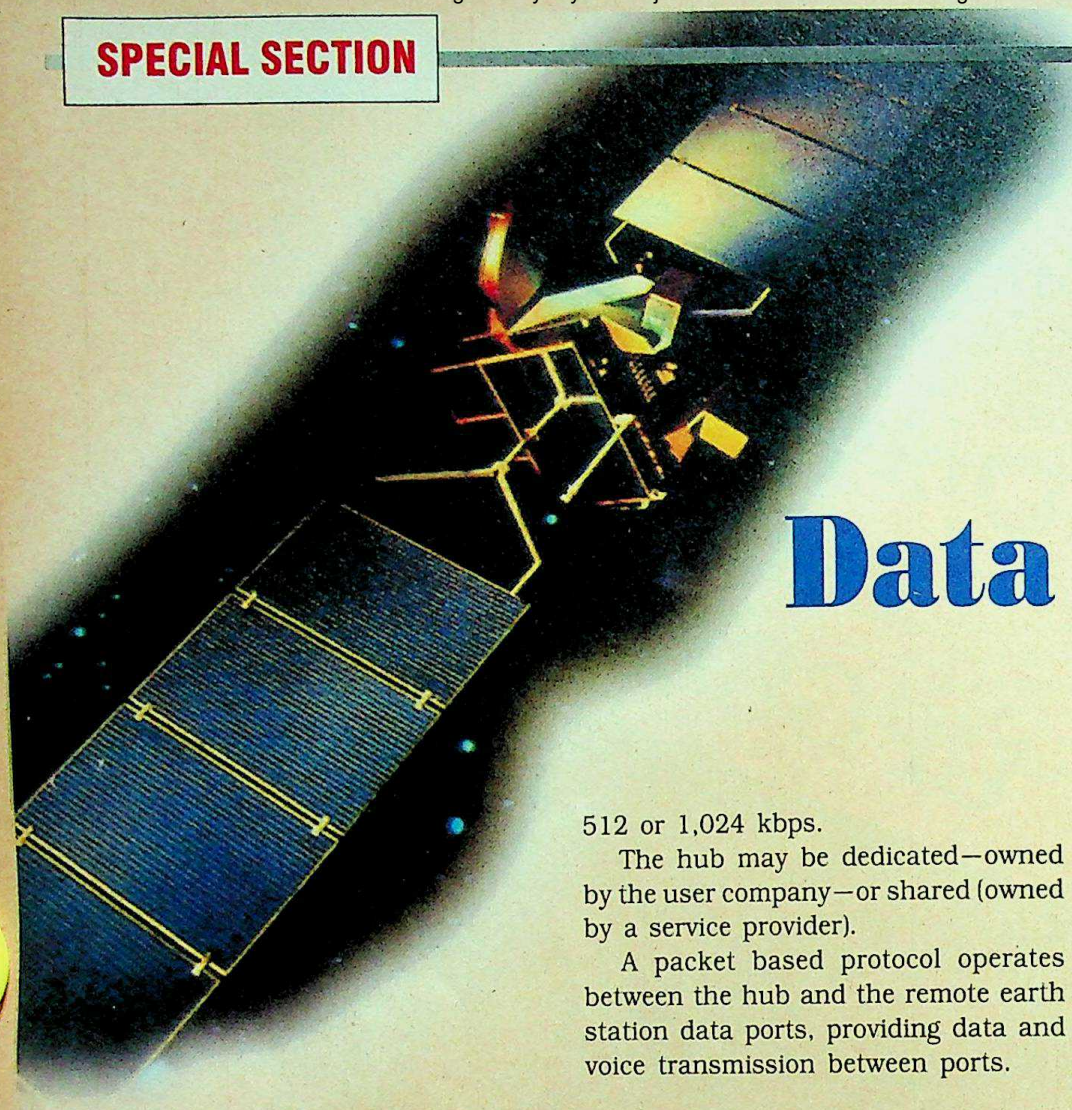
BECOME A SAFEDEALER TODAY. BECOME A PART OF ACTION !

DIANT R SYSTEMS ITY. LIMITED

Trademarks appearing above are the property of their respective owners.CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

ANDY DIRECT/RP.54

Digitized by Arya Samaj Foundation Chennai and eGangotri



Data Skyway

Using VSAT Termi

Whether you're in cities or in remote areas, communications through satellites is usually the most reliable way to go. VSATs are Very Small Aperture Terminals. They are satellite-based communication systems; the "aperture" refers to the extremely narrow and directed "beam".

VSATs use packet switching—the packets are blocks of data—with TDMA (time division multiple access). The topology commonly used is star with a "double hop": The beam goes from VSAT to hub, then from hub to VSAT—both the times striking the satellite.

The VSAT is a remote terminal, from where the beam goes to the satellite and to the shared hub and then from the shared hub to the destination via satellite. In each hop, there's a delay of about 270ms. This is a considerable delay for voice, though not for data.

The **in-routes** have 64, 128 or 256 kbps speeds—TDMA links from the remote site to the hub, allocated on demand to user ports at each earth station.

The **out-route** is a link from the hub to the remote sites, a TDMA carrier which is shared by the remotes and is 512 or 1,024 kbps.

The hub may be dedicated—owned by the user company—or shared (owned by a service provider).

A packet based protocol operates between the hub and the remote earth station data ports, providing data and voice transmission between ports.

The Network

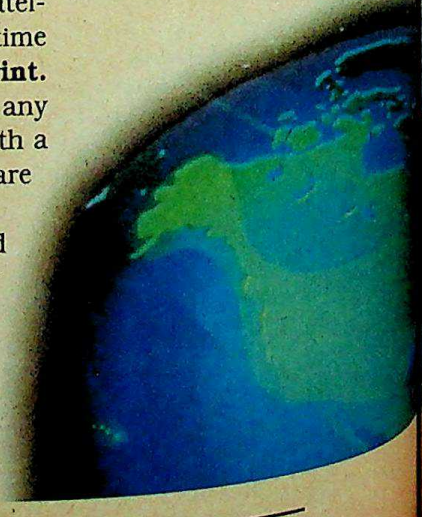
A VSAT network provides two-way datacom between a central hub and multiple remote locations. A large satellite dish (9 to 11 meters) is used at the main hub. At the user site a smaller dish antenna (0.75 to 2.4 meters in diameter) is locked on to the satellite, and cabled to an indoor unit which provides the necessary voice and data interfaces.

The satellite signals are coded before transmission to ensure security. Supported protocols include X.25, TCP/IP, Ethernet, X.3, X.28, Async. The satellite is in geostationary orbit all the time and covers an area called the **footprint.** Changeover to another satellite, or any other tracking changes (such as with a mobile VSAT terminal), are taken care of by tracking motors at the hub.

The hub provides centralized communications management for the remote centers. All traffic between remote centers must pass through the hub; traffic cannot pass directly from one remote to another over the satellite link. The remote centers are geographically dispersed sites that contain earth tions and customer equipment su LANs, computers and workstat Customer equipment is connecte the network through earthstation The hub architecture build redundance, with most compo having a standby.

What does it cost to install a V It starts at around Rs 1 million, an go up depending on the redun and backups built in.

For companies involved in geog cally-spread-out activity, or in inf tion-intensive activity—from minin manufacturing to newspapers, exchanges, courierservices—VSA just what's needed in a country long-distance land lines, espe leased lines, are worse than unre But VSATs are popular worldwi mobile ATMs, retail stores, on-line ing, and many more areas.

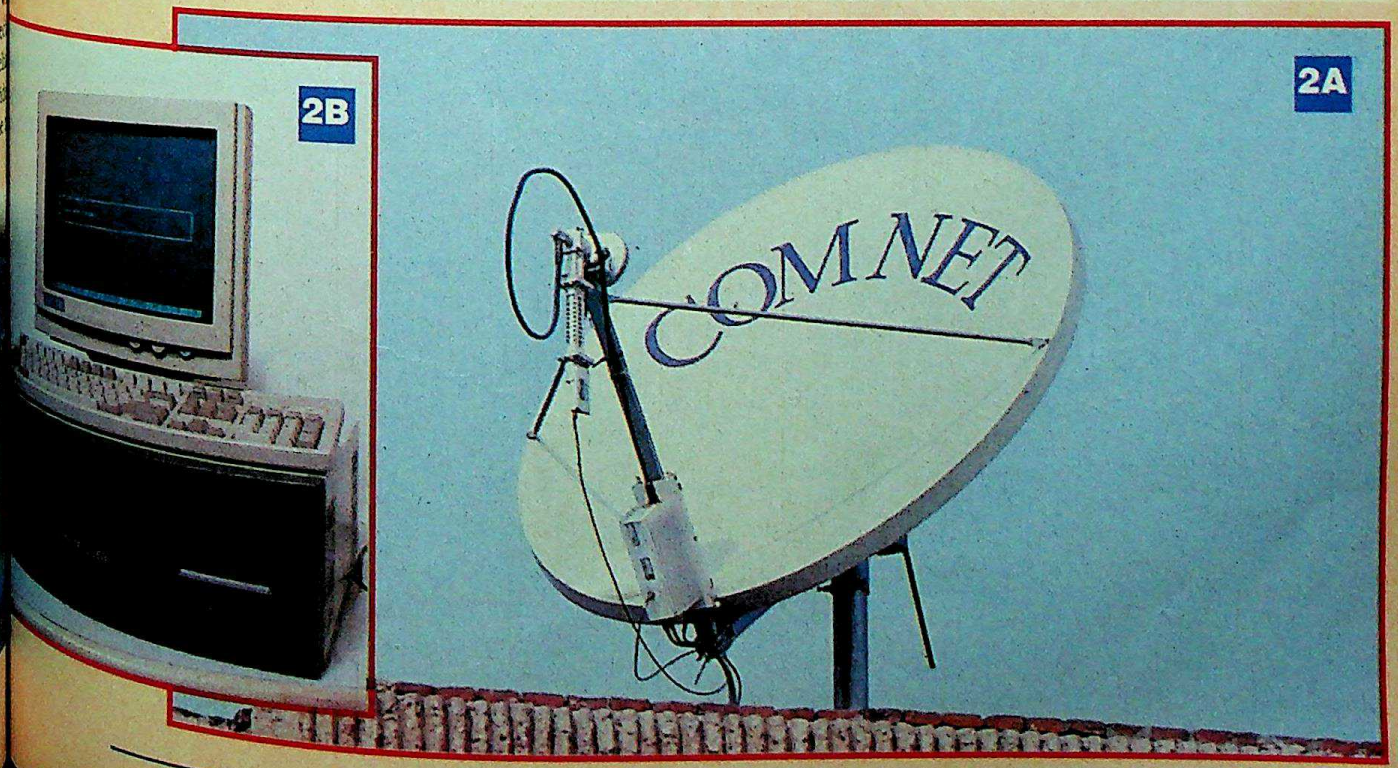


CC-0. In Public Domain. Panini Kanya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The communication takes place within a group (a central hub site and many remote sites) via a geosynchronous satellite link. Here Insat II A is used and a quarter of the transponder is available. The hub has three segments: the RF section, the Baseband Section and the Control Section.

2a 2b Users transmit data through the VSAT (2a-the dish and 2b- the indoor unit) present at their site. At the user end there is an earth station which has two units, indoor and outdoor. The outdoor unit is a small dish 0.9 to 2.4 meters in diameter. The indoor unit converts signals to and from baseband frequencies and provides interfaces to data processing equipment. The outdoor and the indoor units are connected through the cable. Voice and data can be transferred to the remote sites as well. In the indoor unit apart from the frequency converter, it also has voice and data interfaces. These interfaces consist of of a standard data interfaces such as RS-232, Ethernet and telephone interfaces. The advanced VSATs enable users to carry protocols such as X.25, SDLC, LAN protocols and ASync.



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

3 *Seen here is the antenna at the hub site which has the RF/TX circuitry at the top and motors which automatically changes the azimuth, polarization and other minor changes corresponding to the satellite's position.*

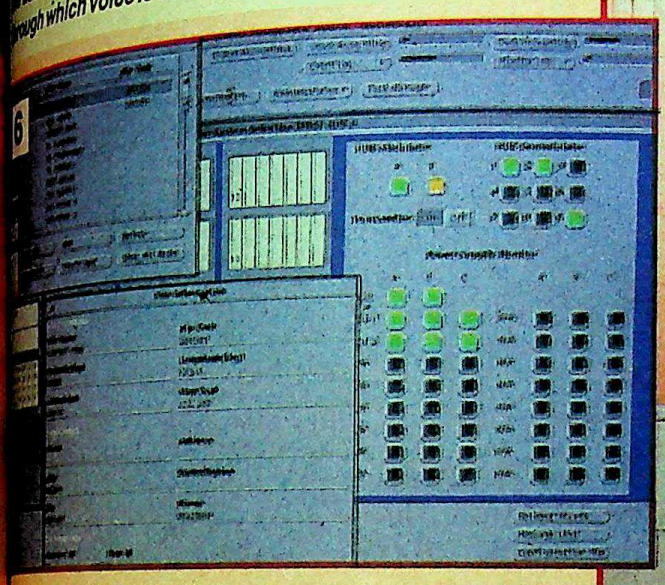
Baseband Subsystem: This is a section which does the necessary proc
conversion required to translate digital data streams to and from the user equip
RF Subsystem: Once the beacon from the satellite is locked, it goes to the R
circuitry depending on what the objective is. This RF Subsystem is connected
antenna with the help of a coaxial cable. The main objective of this subsys
conversion of Radio Frequency to Intermediate frequency in the receive path
the transmit path it does the opposite. At this section, there are up-converte
down-converters.

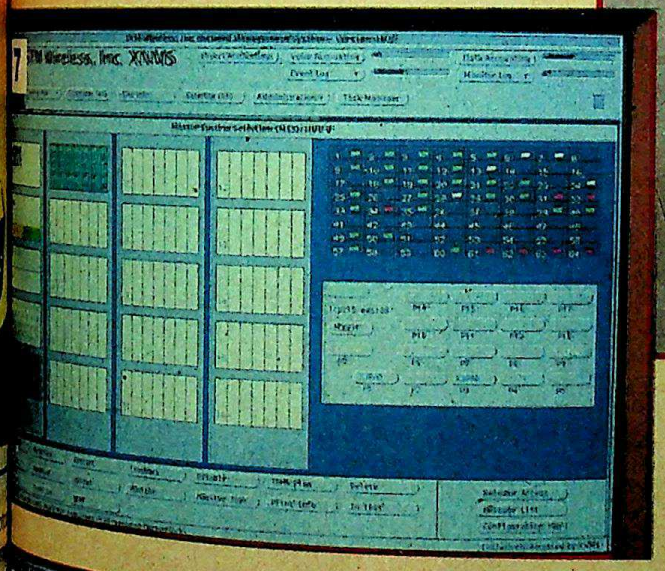
4 *In the RF section there are upconverters and downconverters which h
converting the RF to IF and vice versa. In the receive path, it first goes to the
Noise Amplifiers and then to the down converters where the frequency is re
at the IF level. Following the transmit path, it first goes to the High Power Am
and then to the Upconverters so that the frequency of RF level is attained.*

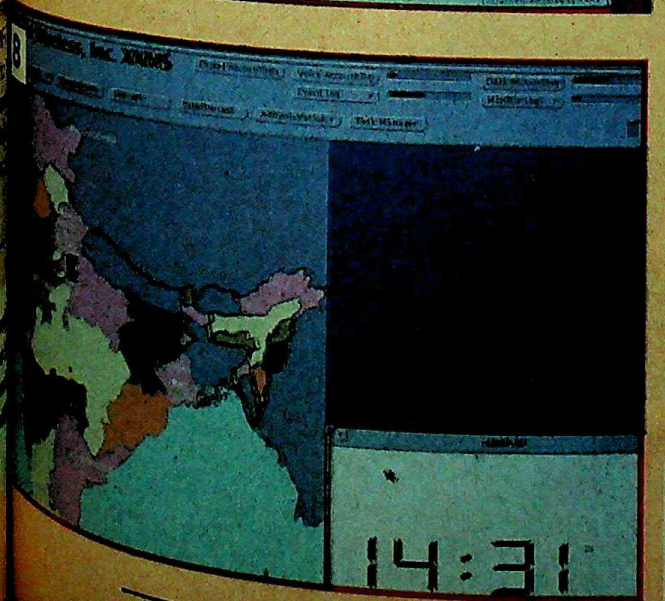
CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

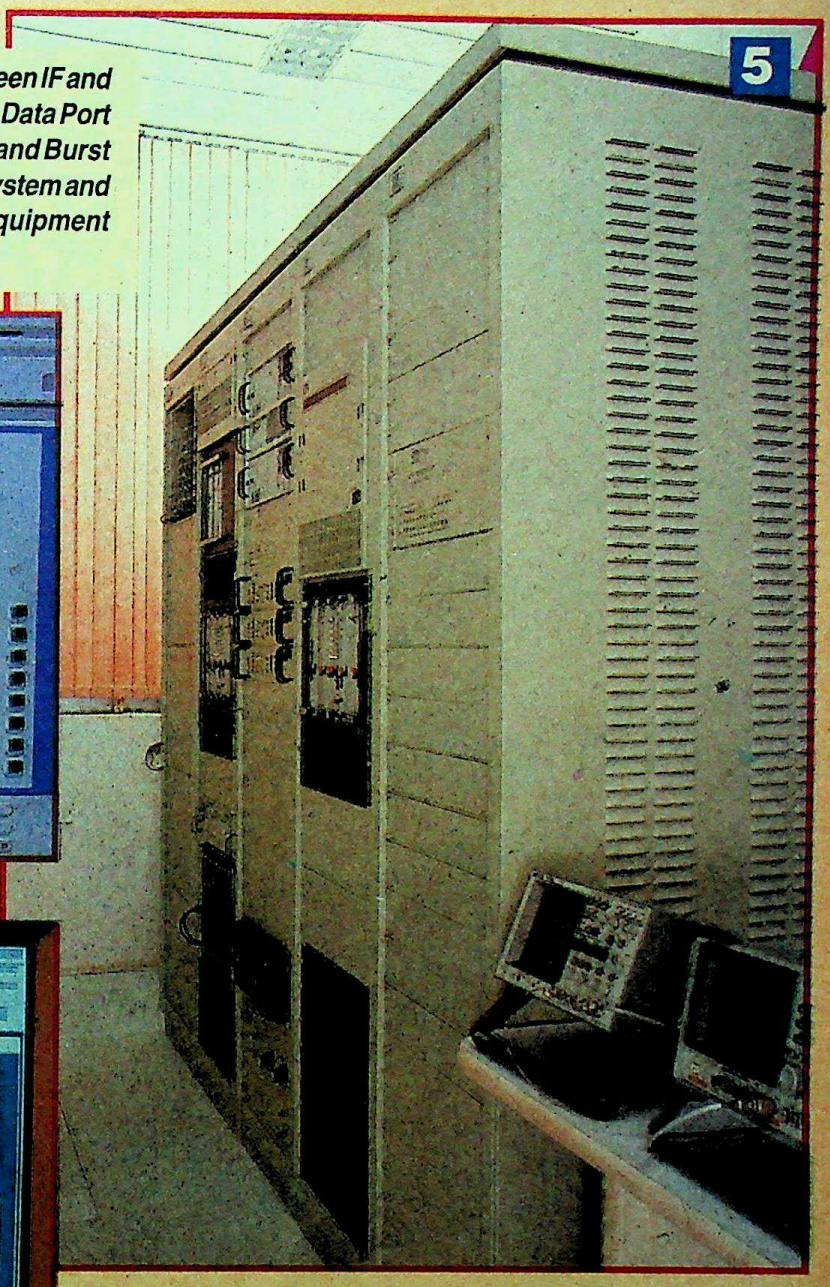
Digitized by Arya Samaj Foundation Chennai and eGangotri

...stacked chasses with slots. This section is an interface between IF and ...r equipment. There are clusters: Network Control Clusters, Data Port ...cluster and Voice Port Cluster. This section also has modems and Burst ...anned modulators. It acts as an interface between the IF subsystem and ...he user's equipment. Modems are housed in the baseband equipment ...hrough which voice is transmitted.









6, 7, 8 *The Control Center, which is olocated with the hub, mostly runs on a workstation from where one can monitor and control the network. The GUI Network Management Software, lets you check details such as the number of packets being transferred and received and the number of data bytes transmitted and received.*

These are Comnet's sites in India. Operational and non-operational VSATS are ishown using various colors. Red indicates downed VSATS, green represents working VSATS and white represents VSATS which are in the process of being set up.

The data transmitted reaches the receiver end through similar equipment - a VSAT and an indoor unit).

Photography: Avinash C Aggarwal
Courtesy: HCL Comnet
Meghna Relan

CC-0. In Public Domain. Sunkul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

COMPLIANCE WITHOUT COMPROMISE

Visit us at
IT ASIA '95
Hall No. 9
6th to 9th Dec. 95

FCC Class B USA appd.

With CHERRY Germany
Key Switches and
Double injection Keytops.

2 Year© WARRANTY
Long Life RELIABILITY
MICROTEK

Long Life
ROBUST - II SLIM
KEY BOARD™
The tough one,
with gentle feel

MICROTEK MICROTEK

MONITORS KEYBOARDS S M P

MICROTEK'S SERVICE CENTERS :- DELHI - 011-5475365. BOMBAY - 022-8392971. MADRAS -
Incase of any difficulty please fax to :-011-5472907, 5472659 (Headoffice)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Crayola Amazing Art Adventure And Art Studio

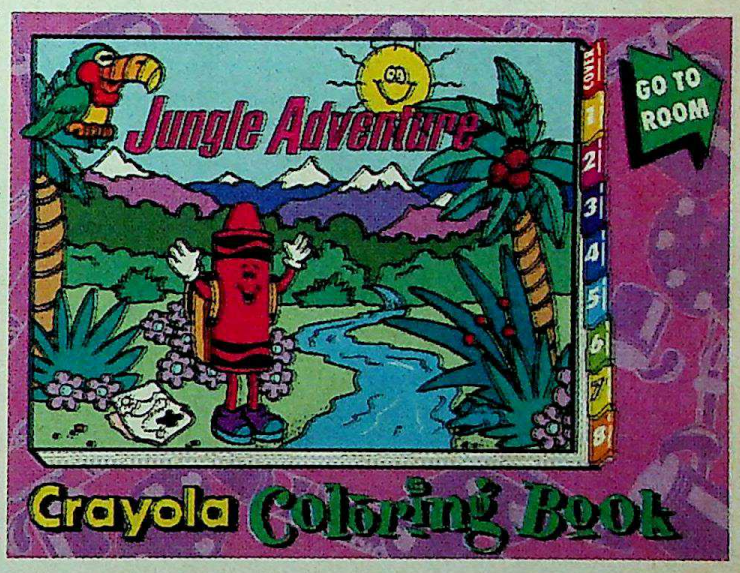
Two too-similar painting and fun packages for kids, from Micrografx

Exploding erasers, talking keyboards, magic effects...Yes, kids will love it. At least the kiddiest of them.

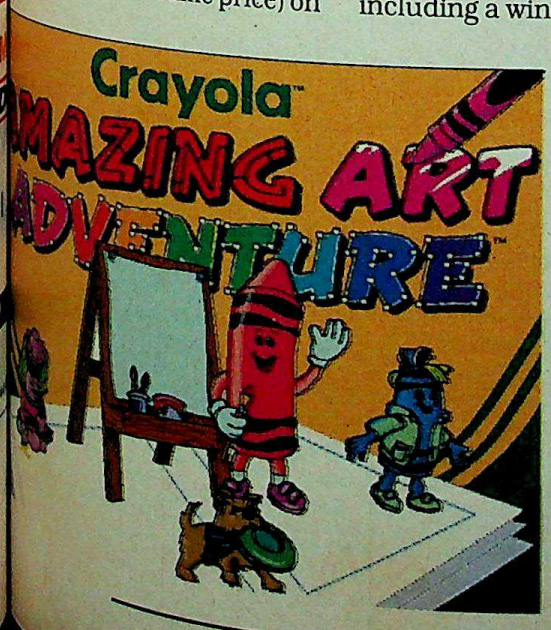
And yes, they'll be busy with colors, forms and games. But are these high-tech painting packages really "empty canvases waiting for young imagination to fill with ideas"? I'm not sure.

Crayola Amazing Art Adventure and Art Studio are in themselves rather similar. Although the senior package, Art Studio, differs in the content of its coloring books, featuring a trip to Europe, African wildlife, Fashion and Vehicles, *versus* Amazing Art Studio's Birthday Dragons and Monster Mix Ups—it still amounts to coloring-in, an activity which most 12 year olds will surely have outgrown. Both packages together are meant to span ages ages 3 to 12. I think 3 to 6 is more realistic, as it would probably be difficult to wean a 12 year old away from DOOM and Channel V with a software coloring-book.

Crayola comes (for the same price) on either floppy disk or CD-ROM. We received floppies, which I installed easily on my 386 with 8 MB RAM. Considering a 386/4 MB is the minimum requirement, the packages were not exactly as fast as I expected them to be. One of the Crayolas takes up over 16 MB of hard disk space. A sound card is recommended—by Micro-Grafx, that is—and there's enough noise generated to send grown-ups straight out of the room. There's also an annoying cursor that finds *everything* very funny indeed.



It all begins at the Art Room. A basic option is the canvas for drawing or painting with crayons, markers and watercolors. You can add to drawings with stickers, animated toys and special effects, including a windy blurring effect, swirls, rainbows etc. There are plenty of options with each tool. Shapes, alphabets and numbers and 'crazy lines' add to the happy mess a kid can make. From the Art Room you can make your way into coloring books about jungles and circuses, paint dot by dot, play mix-and-match games, learn the alphabet with pictures, and play with mazes and pictures gone wrong. And you can save the lot in picture galleries.



Art Studio has a few additional features—more options to some of the tools, including rather impressive 3-D shapes, and control over how much of what. There are coloring books on more advanced subjects, word puzzles, jokes that come out of telephones, and modules for certificates, badges, notepaper, and picture show makers, more maze games. And your tour guide is Matisse, as against Tip from Amazing Art Adventure.

Of the creativity claims, I remain skeptical. The Crayola packages are so automated and have so many ready-made stickers, pictures and effects, that it'll be all you can do to get a child to leave those aside to create pictures on his own in more creative and imaginative ways.

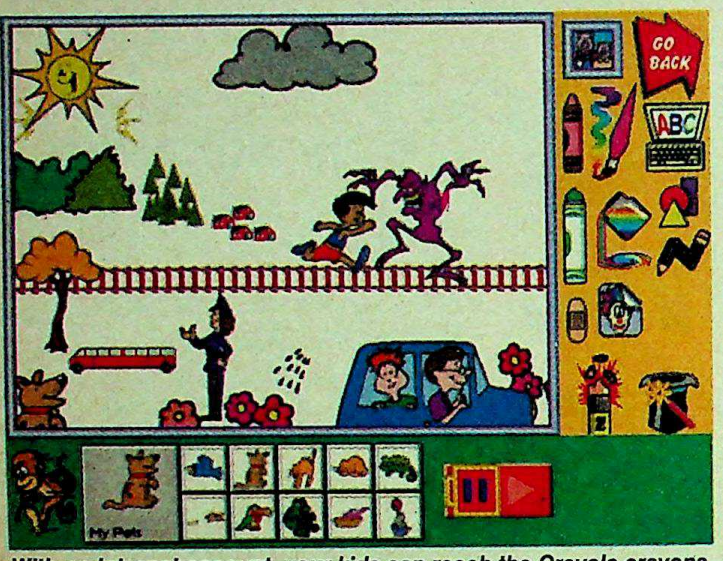
HOME SOFTWARE

Micrografx Amazing Art Adventure and Micrografx Art Studio. Drawing and coloring tutors for kids. Rs 5,000 each, disk or CD-ROM, from Softek. RQS #E0222, #E0223

Two fun packages more geared at clipart use and coloring than art, for preschoolers—or children who need confidence-boosting measures with painting. Color-in with crayons—including real ones—or markers or watercolors, use animated stickers, sounds and effects, play picture and word games. Lively little packages, but the ready-made effects leave little room for creativity.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



With an Internet account, your kids can reach the Crayola crayons Web site at http://www.crayola.com/

The packages are accompanied by a bright-looking booklet that I thought was a coloring book, for it was accompanied by crayons. It turns out, however, to be a user's guide which includes creativity tips for parents—an example of which is: "Let your child think of a picture and start drawing it. See how long it takes for you to guess what it is."

Setting aside creativity, Crayola can be a fun way of teaching the littlest ones about shapes and colors. There are some projects suggested for kids and parents to do. As with most children's software, the value depends less on the program than on the quality time a parent spends working on it with the child.

Oh, and Crayola is not a Micrografx brandname, it's probably the oldest crayons company in the world. In these Micrografx packs you get a set of crayons, and in the slim booklets find interesting trivia, from the crayons made by Crayola in the years, to the fact that among the known smells in America is the crayon.

And Crayola has its very own Wide Web site, (http://www.com/) where kids, little and enter competitions and win a Bubblejet printer, or learn such trivia by clicking on crayons.

As for the packages themselves are well designed and integrated could have allowed more creative imagination to their users. And have been a lot more attractive level of all the spectacular CD-ROM multimedia from Microsoft—at third of this price.

Mala

WHICH MODERN DAY INDIAN COMPANY MAKES HEADS ROLL?

RUTHLESS. BUT TRUE.

Week after week hundreds of dot matrix printheads roll to TRANSDOT for remanufacture. After all, in India only TRANSDOT has the technology and equipment to remanufacture printheads with the flawless precision and ruthless efficiency it calls for.

■ WORLD CLASS TECHNOLOGY FROM DOT SHOP INC., USA. ■ EXTENSIVE LIST OF CORPORATE CLIENTS ■ REASONABLE PROCESS PERIOD, MEGA SAVINGS

TRANSDOT
(A Transmatic Group Company)

TRANSDOT ELECTRONICS PVT LTD
Golf Links Road, Kowdiar, Trivandrum-695 041, India.
Tel: 91-0471-435608, 433805 Fax: 91-0471-432465
Tlx: 435-6217 TSL IN

WARNING

DEALERS' LIST: ● AHEMEDABAD - V Repair, Ph: 405620 ● ALLAHABAD - Grain Technologies, Ph: 602982 ● AJMER - Unicom, Ph.50981 ● AMBALA CANNT.-Computer Touch, Ph.643285 ● - Digitelek Systems & Services, Ph: 3374465; Trinity Business Systems, Ph: 645324, 648029 ● BARODA - Patwa Kinarivala Electronics, Ph: 326588 ● BELGAUM-Microlink, Ph: 21482 ● Computer,Ph:24164 ● BHILWARA - S.R. Enterprises, Ph.22362 ● BHOPAL- Compquest Consultants, Ph:554089, Computer & Computers, Ph: 554089 ● BOMBAY - Automate Technologies, Ph: Computers & Technologies, Ph: 6232002, 6235604, Up-Time Computer Services Pvt. Ltd., Ph:4925111, Video-Tech, Ph:3826357 ● CALCUTTA -Cyber Services, Ph:4730252 ● Automations, Ph:210747 ● DELHI - Nidhi Marketing Computers, Ph.538831 ● GANDHIDHAM - Pars Building Products, Ph: 23824, 22138 ● GOA - Foundation Business Systems, GWALIOR - Vedic Computers, Ph: 320928 ● HUBLI-DHARWAR - Kidiyoor Electronics, Ph: 41817 ● HYDERABAD/SECUNDERABAD - Orient Business Services Pvt. Ltd.,Ph:847478 ● Services, Ph: 491577 ● JALANDHAR CITY- Primrose Computer Aids, Ph.252975, 255249 ● KHOTA- Shobhit, Ph.28282 ● KOCHI- Sighnetics Systems , Ph.345290 ● ● LUDHIANA- Secant Technologies, Ph.456891 ● MADRAS - Transdot Electronics Pvt. Ltd., Ph: 4990544, 4993927. VKP Electronics, Ph: 8274827, 8283663 ● - Key Computers, Ph: 536263 ●PONDICHERRY- Micropius Computers, Ph: 38913● PUNE - Shree Engineering Corpn., Ph: 334533 ● RAJKOT - Mihir Computers, Ph: 46668 ● Ph: 47277 ● SURAT - Samrudhdhi Systems, Ph: 411019 ● TIRUCHIRAPALLI - Sri Vadhana Enterprises, Ph: 432892 ● TRICHUR -IRS Systems & Services, Ph-25560 ● Ph: 441753 ● UDAIPUR- Apex Informatics, Ph.28330 ● VIJAYAWADA - Andhra Computer Services, Ph: 431707 ● VISAKHAPATNAM- Micronet Technologies, Ph: 546424

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVANTAGE

Intelligent Anti-Virus Toolkit

selected to be on guard for protection
of the New Delhi Online Trading System by

DELHI STOCK EXCHANGE

after an expert evaluation. The others evaluated were

Norton Anti Virus, Dr. Solomon Toolkit, Nashot, Red Alert, etc.

1000+ installations at one of the premier Stock Exchanges of the country
IAVT passed tough selection criteria because it offers features like :

NASSCOM '96
INDIA TRADE FAIR
5-9 FEBRUARY · BOMBAY · INDIA
HALL NO. : B
STALL NO. : 180

IAVT

Releasing ALL NEW Generic File Scanner & Cleaner

- STOP VIRUS BEFORE DOS
- VIRTUAL INDICATOR
- GENERIC SCANNER
- CLEAN WITHOUT CLEAN DOS
- GENERIC BOOT/PARTITION VIRUS CLEANER
- CLEAN FILE VIRUSES WITHOUT DESTROYING FILES
- CLEAN MULTIPARTITE/POLYMORPHIC VIRUSES
- SPECIALLY ADAPTED FOR SOUTH-EAST ASIAN COUNTRIES
- 100 % INDIAN & ONLINE UPDATES/SUPPORT AVAILABLE
- INSTANT PROTECTION AGAINST INFECTIONS FROM FLOPPIES

STOP VIRUS BEFORE DOS

Protect Your Computer Intelligently

FEATURES	IAVT	RED ALERT	NASHOT
GENERIC B/P CLEANER	YES	NO	NO
GENERIC FILE SCANNER	YES	NO	NO
VIRTUAL INDICATOR	YES	NO	NO
CLEAN WITHOUT CLEAN DOS	YES	NO	NO
CLEAN FILE VIRUSES WITHOUT DESTROYING FILES	YES	NOT ALWAYS	NOT ALWAYS
THREE YEAR WARRANTY	YES	NO	NO
PRICE (In Rs.)	1888.00	3000.00	N/A

All names are property or copyright of their respective companies. The above comparison is between IAVT Ver 3.01, Red Alert Ver 4.0 & Nashot Ver 17.0

FIFTH GENERATION

Fifth Generation Software Limited

Regd. Off. : 5, Ashoka Park (Main), Rohtak Road, Delhi - 35. Ph : 5103299, 5458018 Corp. Off. : 140, Zamrudpur, Nehru Mkt, Opp. LSR College, New Delhi - 48 Ph : 6210808, 6229805 Fax : 6210580
Bombay : Raj Villa 2, Outpost Military Camp, Vakola, Santa Cruz (East), Bombay - 400029 Phone : 6185689 Ahmedabad : 27, Vijay Complex, Vasna, Ahmedabad - 380007 Phone/Fax : 415770
Hyderbad : 3-5-1033, Lane Opposite Venkatesa Theatre, Narayanguda, Hyderabad - 500029 Phone : 235471 Fax : 517410
Amritsar : Computer Associates - 228769, Bangalore : Namratha Electronic Centre - 6619116, Link Systems - 3350389, Bombay : Gem Telecom - 421201, Gripp Computer Services - 5341301, India Business Machine - 5113272, Micro-Tech Enterprises - 5426728, Delhi : Ansun Electronics - 6414613, BPB Publications - 3325780, Computer Zone - 6462068, Computer Professionals - 6449960, First Computers - 2415743, Lotus Graphics - 6418046, Omniscent Computers - 5731185, Shivom Computers - 5512815, Softman Computers - 6483376, Vikmans Peripherals - 6429547, Goa (Mapusa) : Spectrum Software & Services - 250405, Jabalpur : The Computer Shoppe - 25216, Jaipur : MicroPlus Computers - 317800, Computer Jyoti - 514107, Jalandhar : Software Solutions, Lucknow : Rakshit Computers - 240895, Madras : Devraj Computers - 8525856, Moradabad : XL' Brain Computers - 317769, Patna : Shree Sati Computers - 659806, Varanasi : Computer Shoppe - 362566

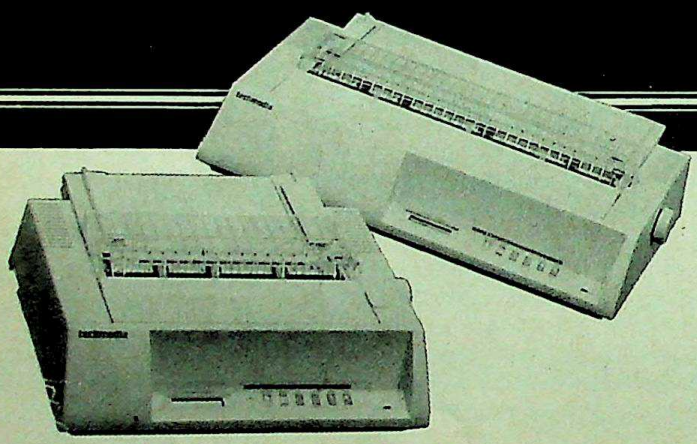
DEALERS/DISTRIBUTORS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

There are times when even SANDUR printers stop working.

Power Cuts, Network System is down, All PCs in your office are attacked by virus, You run out of printing stationery, Entire EDP staff are on leave , You try printing without connecting your printer cable.....



TM 2411S/TM2416S

- Advanced 24 pin, 80 Col, 240 Cps/24 pin 136 Col, 240 Cps.
- LCD panel, 3 programmable menu selections.
- User friendly front panel operations, no confusing DIP switches.
- 6 Built-in fonts, 12 pitch selections.
- On line selection of font & pitch.
- Thermistor controlled print head.
- Paper parking/zero inch tearoff/quite mode.
- Built-in serial interface.

TM 2415C

- 24 pin, 136 col, 240 Cps Colour Printer.
- 4 Paper paths (Front, Bottom, Continous & Cut sheet)
- User friendly front panel operations, no confusing DIP
- 6 Built-in fonts, 12 pitch selections.
- On line selection of font & pitch.
- Paper parking/zero inch tearoff/quite mode.
- Built-in serial interface.
- EPSON compatible, low priced, longer life colour ribbon

SANDUR ELECTRONICS

A Division of The Sandur Manganese & Iron Ores Limited

86/B, Industrial Suburb, II Stage, Yeshwantpur, Bangalore-560 022. Phone: 3376679, 3379981, 3372268. Fax: 080-3378130

DEALERS: Aligarh: Micro Computers - 602289. **Ahmedabad:** Shivam Computer Pvt. Ltd. - 400914, 409161. Orbit Circuits - 466156. **Ambala:** Data Byte (India) - 25540. Infotech C... Logist - 440746. **Bangalore:** Computronix Inc- 2265903, 2202911, Chinmaya Computer Centre - 3345063, Figaro Micro Systems - 5576808. **Baroda:** PC Link System - 321614. Bijoy... Computers - 23793. **Bhopal:** Digital Maintenance Services - 67839. **Cannanore:** Microsoft Consultants - 60883, 68630. **Bombay:** Lanmark Systems & Services - 3851416. ... **Chandigarh:** Ideal Computer Care - 607793. **Cochin:** Data Hard Systems - 373444. **Coimbatore:** Caps - 449161. **Cuddalore:** Sigmatech Electronics - 20634. **Davanagere:** Infotech C... Systems - 28613. **Dehradun:** Rans Electronics - 626039. **Erode:** Perfect Technologies - 72024. **Gulbarga:** Srirang Computers - 25787. **Gujarat:** Tornado Sales & Service - 22294. Gwalior ... Computers - 326489. **Hassan:** Interface Integrated Techonologies - 69688. **Hospet:** Computer Embassy - 57609. **Hubli:** Dinakar Marketing Services - 367464. Hyderabad ... Computers - 290393. **Indore:** Rainbow Computers - 532352. **Jabalpur:** Imprint Computers - 316359, 315359. **Jaipur:** Bits & Bytes - 362627, 366862. **Jodhpur:** Shagun Electronics ... **Kanpur:** Micro Soft Acc (P) Ltd. - 542679, 543933. **Karwar:** Intec Computers - 26788. **Kottayam:** ASCI Systems & Communications Inc. - 62894. **K.G.F.:** SSICT - 55185. Kochi C... Bazar - 355422, 365636. **Madras:** Sigmatech Electronics - 4345733, Ramakrishna Computech Pvt. Ltd. - 4943930, 4934172. **Madurai:** C Plus - 540995. **Mangalore:** C Net Systems ... **Margoa:** Carotronics - 722468, 722637. **Mayiladuythurai:** Base Compters - 22355. **Mysore:** R E I Enterprise - 22271. **Nagpur:** Systems Diagnostic - 47131. New Delhi: C... World - 3329745, 3350979, CompuServe - 6432124, 6463799. **Pondicherry:** Sigmatech Electronics - 30548. **Rai Bareilly:** Pragya Compufer - 803264. **Rajahmundry:** Micromatic ... **Salem:** Star Lite Automations - 448944. **Shimoga:** Reliance Data Systems - 221124. **Secundrabad:** CTE Systems - 831744. **Surat:** Shree Rang Computer - 426527, Binary System ... **Thanjavur:** Star Base Computers - 20947. **Trichy:** Riveraa Computers - 432118. **Tumkur:** Computer Clinic - 74654. **Udaipur:** Vrdhman Computers - 525966. **Vishakapatnam:** Computers & Communications - 546804. **Vijayawada:** Mist Computers - 4477620.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NOOPING INTO CMOS RAM

to read from and write to S RAM

When IBM came out the AT, there was a plethora of s that could be fitted with it. ers found that they needed to store ation like the amount of RAM ed, the number of drives and the card attached on the computer. ta could not be stored on the hard ther, since even the hard disk was dentified and initialized using this The answer to this was a special RAM called CMOS RAM.

ventional RAM loses whatever data es if not refreshed at regular ds. Maintaining data in it, when puter is powered down can drain es very fast. CMOS RAM on the board is an example of static RAM – stored in it remains there even ut being refreshed. While slower normal DRAM and more expensive, efficiently suited for applications a small amount of RAM is needed e data over long periods of time. s use a small amount of CMOS to store details about their uration that are needed while ting. This also stores the data for Time Clock (RTC) that derives its from a small battery – usually geable – inside the computer.

Initially, computers used to have 64 bytes of CMOS RAM, while today's computers often have double the amount of RAM to store the extra information used by their BIOS configuration utility.

Accessing the CMOS can at times be a little problematic. Port 70h is used to give the computer the address of the CMOS location to be read from or written to. To read a byte from the CMOS, one has to send the address of the byte to port 70h and then read in a byte from port 71h. If programming in assembly, it is advisable to give a NOP between the *OUT* and the *IN* instructions to give some time for the machine to settle down. Reading the byte in immediately after sending the address can sometimes give a garbled value. Another problem sometimes faced is caused by the fact that port 70h is a write only port—one cannot read the CMOS address to which it is pointing at any given moment. Some interrupt routines consult the CMOS to look up data, particularly disk handling routines. This can cause problems if the routine sends a value to port 70h after your program has, to access a byte. When your program reads in a byte then, it is the byte pointed to by the routine. To avoid conditions like this, all interrupts should be switched off with a CLI before using ports 70h and 71h.

Some of the newer BIOSes have 128 bytes of CMOS RAM to store data specific to their SETUP utilities. To check whether this is the case, try reading data beyond the first 64 bytes and compare the data

AMI BIOS SPECIFIC DATA

Address (hex)	Data stored
1B,1C	Number of cylinders as word (low, high byte) for hard disk 0, type 47 (user defined)
1D	Number of heads for type HD 0, type 47
1E,1F	Write precomp cylinder as word (low, high byte)
20	Hard disk control byte
21,22	Landing zone as word (low, high byte)
23	Sectors per track
24..2C	Same data for hard disk 1

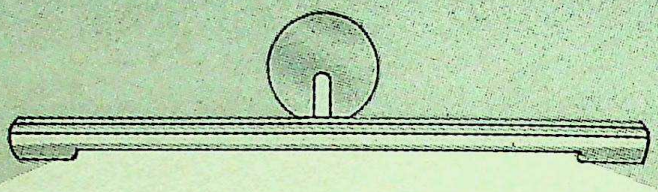
AWARD BIOS SPECIFIC DATA

Address (hex)	Data stored
1E,1F	Number of cylinders as word (low, high byte) for hard disk 0, type 46 (User defined)
20	Number of heads for HD 0, type 46
21,22	Write precomp cylinder as word (low, high byte)
23,24	Landing zone as word (low, high byte)
25	Sectors per track
26..2D	Same data for hard disk 2

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AWARD WINNING WORK OF ART FOR LESS THAN RS. 10,000

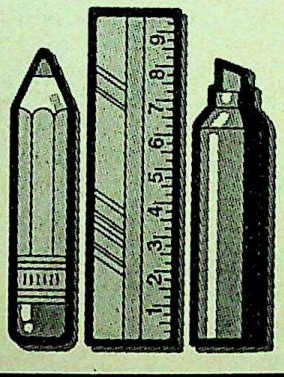


MICROGRAFX

WINDOWS Draw

"Fun, Fast & Friendly.

LICENCE FEE Rs. 5,000/-

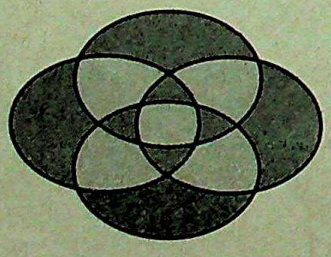


MICROGRAFX

GRAPHICS WORKS

"All in one-Drawing, Charts & Graphs, Photo editing, slide show."

LICENCE FEE Rs. 10,000/-



MICROGRAFX

SNAPGRAFX 2.0

"Creates great looking diagrams, Instantly."

LICENCE FEE Rs. 7,500/-

MICROGRAFX

CRAYOLA

"Creates Tons of fun for Preschoolers."

LICENCE FEE Rs. 5,000/-

Softek Limited : M-42, Commercial Complex, Greater Kailash-II, New Delhi-110048. Ph : (011) 641-5312, 6482681, Fax : (011) 648-2680

REGIONAL OFFICES:

- 3rd Floor, Raja Rajeswari Towers, 29-30, Dr. Radhakrishnan Salai, Madras : 600004, Ph. (044) 825-8804, 824-0971
- Shyam Kamal 'A' 1st Floor, Opp. Railway Station Vile Parle (East) Bombay : 400057, Ph : (022) 6101147, 6101170 Fax : (022) 6116756
- 1301, Brigade Towers, 135, Brigade Road, Bangalore : 560025, Ph : (080) 2213853, Fax : (080) 221-7655
- 237, Jodhpur Park, Calcutta : 700068, Ph : 4734137

AUTHORISED TRAINING CENTRES

- Zonix Computers, Trichy, • Computer Consultancy, Jaipur, Ph : 0141-319599
- AVG Computers, New Delhi, Ph : 011-6838620 • VSB Enterprises, Gurgaon Ph : 0124-331630
- NIMT, New Delhi, Ph : 011-6462158, 7427646 • Enigma, Bangalore, Ph : 080-2281662
- Glider Technologies, Cochin, Ph : 0484-372346

SOFTEK

WORLD CLASS SOFTWARE WITHIN YOUR REACH

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Choose the future...

Video-conferencing, MPEG, TV tuner

entium 133 MHz - CD-Rom Notebook

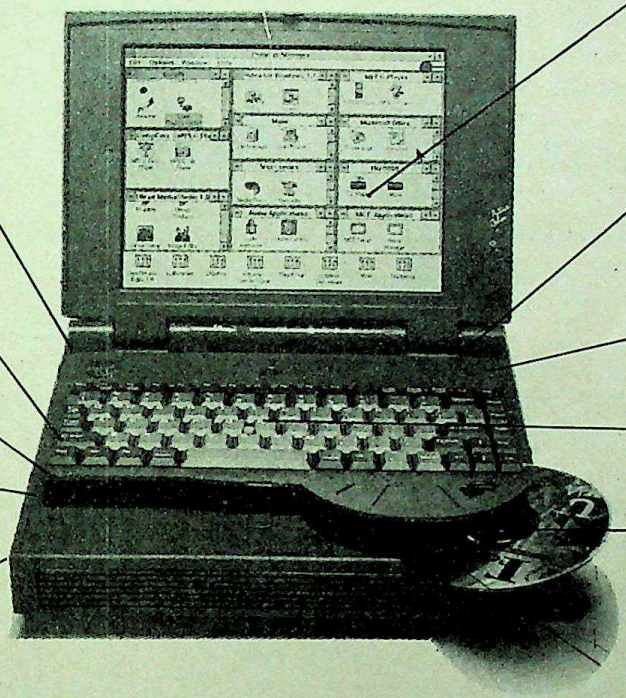
PCMCIA CARDS supports Type II x 2/ Type III x 1

MPEG Full Motion Picture Playback

Video Capture rect camcorder for use in video conferencing.

CPU ium P54C 3.3V or P55C 2.5V upto 150 Mhz. o available 486 DX4 models)

RAM o 64 MB of main memory



Large Display : 10.4 Active TFT or 10.4" Dual Scan STN

HDD Removable upto 1.3 GB

RGB to TV for presentation

Micro Joystick

CD-ROM Drive CD-ROM Drive in built 16 bit stereo sound built in speakers/mic

OUR GATEWAY TO REAL MULTI-MEDIA COMPUTING ERA IS HERE !!

InnovACE™

The Innovative Notebook Specialist ™

Ask for an amazing price offer

and "InnovACE" USA-Holland: leading in

1992 World's First 386sx 25MHz Notebook
First Notebook Built-in SCSI port
1993 World's First 386DX 40 MHz Notebook
1994 First Notebook Built-in Cyrix S/33 & DSTN LCD
May World's First Notebook Built-in 12mm "CD-ROM", leading over 6 months

SAMTECH™

COMPUTERS PVT. LTD.

10A/27, EAST PATEL NAGAR, NEW DELHI-110008 INDIA
FAX : 5734293, 5751683 TELEX : 031-77336 AKIL-IN
TEL.: 5734293, 5734226

Authorised Resellers:
MUMBAI: Thukral Trading Ltd. Ph.: 2053765, 2032283, Fax: 2083112 Synergy Information Technologies Ph.: 8360527, 8325415, Futech Systems 4453438, 4453332, Fax: 440072 **BHUVNESHWAR:** Oricomp Systems (P) Ltd. Ph.: 406180, 400343 Fax : 405875 **PUNE :** Pushpam Ph.: 415162, 417879, 417885 Fax : 416455 **MADRAS :** Integral Computers Ph.: 8552846 **DELHI :** Dhruva Networks Ph.: 6470701, 6210612 Fax : 6469666

DEALERS & O.E.M. ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

POINTLINE/95/SM

Digitized by Arya Samaj Foundation Chennai and eGangotri

read above the 64 byte boundary with the data read off the same offset above 0. Ignoring the RTC values (they keep changing), if the data is the same, the CMOS has only 64 bytes. If the CMOS does have 128 bytes of RAM, this should be taken into account for utilities that save the CMOS data to disk to allow a restore in case of erasure.

While accessing the data, keep in mind that all the numbers in the time held by the RTC (as well as by the alarm) are stored in BCD or Binary Coded Decimal. This means that the 21st second will be stored at byte 00h as 21h. Again the 14th day will be stored as 14h, just as the 19th century will be stored as 19h. This means that one nibble contains the tens digit, while the other nibble stores the ones digit. Special care should be taken to take this into account.

Usually, the 16 bit checksum stored at byte 2E, 2F is calculated by adding up all the bytes between 10h and 2Dh. Any change to these bytes should be accompanied by a checksum update, else BIOS gives a CMOS checksum error on booting up.

Data specific to the AMI and Award BIOSes (where hard disk information is stored) has been culled by actually dumping the CMOS information and comparing it with that entered using the BIOS. Unlike the other data, these are not documented by the company—meaning that they can be changed without notice. Be extremely careful about messing around with this data—try and verify if it indeed does match the hard disk by checking the size, and maybe even asking the user.

The RTC clock can be read directly from the CMOS, but this involves an element of danger. If you happen to read in a value just as the RTC is updating it, you could end up with garbage. The seventh bit of the byte at location 0Ah acts as the update in progress flag. When it is on, an update is in progress. Unfortunately, even if you start a read when the flag is 0, there is no guarantee that the RTC update will not occur while you are reading in the data-corrupting your values. The way around is to keep watching the flag until an update finishes. The moment, it does, read the value held by the CMOS. By reading only when the update finishes, one can be assured that an update will not interrupt until the read finishes.

A simpler and more elegant way is to use the functions provided by Int 1Ah. A call to this interrupt with the AH register set to 2, gives the current time with the hours in CH, the minutes in CL and the seconds in DH. The carry flag will be set if the clock is not running. Keep in mind the fact that all these number are in BCD. If CX=0815, the time is 08:15.

To set the CMOS clock, AH should contain 03, CH the hours, CL the... and DH the seconds before ... 1Ah. Again, all numbers are in...

Reading and writing the ... through functions 04 and 05 of ... interrupt. CH holds the century, ... year, DH the month and DL ... When reading, if the carry flag ... clock is not operational. Here ... numbers are used—if CX=19... the year is 1996

Standard CMOS data layout

Address (hex)	Data stored
00	Current RTC second
01	Alarm second
02	Current RTC minute
03	Alarm minute
04	Current RTC hour
05	Alarm hour
06	Current day of week
07	Current day of month
08	Current month of year
09	Current year
0A (Bit 7)	Status byte A =0 : Safe to read clock time =1 : Update in progress. Do not read time
0E	Diagnostic status - in case of error If Then (Bit 7)=1 : RTC does not have power/battery dead (Bit 6) =1 : CMOS checksum mismatch (Bit 5) =1 : Invalid system config (Bit 4) =1 : POST found different memory size (Bit 3) =1 : Fixed disk adapter failed (Bit 2) =1 : CMOS has invalid time
10 (Bits 7-4)	Floppy drive A: type
(Bits 3-0)	Floppy drive B: type 0000b - no drive 0011b - 720 kB 0001b - 360 kB 0100b - 1.44 MB 0010b - 1.2 MB 0101b - 2.88 MB
12 (Bits 7-4)	Hard disk 0 type
(Bits 3-0)	Hard disk 1 type 0 - No drive 1..E - Types 1 to 14 F - Look up extended drive type
14 (Bits 7-6)	Number of drives 00b - 1 drive 10b - 3 drives 01b - 2 drives 11b - 4 drives
(Bits 5-4)	Display type 00b - EGA/VGA 10b - Colour, 80 col 01b - Colour, 40 col 11b - Mono, 80 col
(Bit 1)	Co-processor status 0b - Not installed 1b - Installed
15,16	Base memory (kB) as word (low, high byte)
17,18	Extended memory (kB) above 1MB as word (low, high)
19	Hard disk 0 extended drive type
1A	Hard disk 1 extended drive type
2E,2F	16 bit Checksum (high, low byte)
32	Century (BCD)

CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya

Digitized by Arya Samaj Foundation Chennai and eGangotri

MEDIA TECHNOLOGIES INDIA LTD.

Offers
the transformation of your illusion into reality at Unbelievably Low Prices and Unmatched Quality with

VICTORY™

CD - ROM DRIVES
SCANNER / FAX / COPIER
AND VIDEO ACCELERATORS
MEDIA UPGRADE KITS
YAMAHA (4X) CD - WRITERS
SOUND CARDS
VIDEO CARDS

For further , contact :

MEDIA TECHNOLOGIES INDIA LIMITED

Head Office:204, Bhandari House, 91 Nehru Place, New Delhi - 110 019
Tel.:646 8695, 642 0117, Telefax:642 7241
E-Mail - D E L A C 4 7 @ G I A S D L 0 1.V S N L NET.IN.
Branch Office:24 - A, Dadyseth House, 44 Cawasji Patel Street, Fort,
Bombay - 400 001, Tel : 285 3830

DEALERS

business promotions - MTIL / 1 / 98

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

A Turbo Pascal program that accesses CMOS RAM data and stores it to disk.

Winny Verghese, New Delhi

```
Program CMOS_ACCESS;
{ This program reads in the word stored at 15..16h which is the amount of conventional memory
installed. Notice how the low and high bytes are put together into a word.}

var szmem:word;
begin
port[$70]:=$15;  {Send 15h (address of low byte) to PORT 70h}
szmem:=port[$71];{and read in the byte}
port[$70]:=$16;  {Send 16h (address of high byte) to PORT 70h}
szmem:=szmem+port[$71]*256;{read and move it to the high byte}
write('Conventional memory : ');{by multiplying with 256}
writeln(szmem,' kB');
end.
```

Contributions for SWAP as well as power programming questions, tips and techniques are welcome and can be mailed to SWAP, PC Quest, D-74, Panchsheel Enclave, New Delhi 110017.

One of the more interesting features available with the CMOS is the ability to set an alarm. This alarm is only time based—dates cannot be factored in. Int 1Ah should be called with AH set to 06, CH with the hours, CL with the minutes and DH with the seconds to set an alarm. On return, a set carry flag means that the clock is not operational or an alarm already been set (only one alarm active at a given time). To reset the alarm, call the interrupt with AH 07. Whenever the RTC finds the CMOS time matches the alarm it triggers a call to Int 4Ah. By default 4Ah points to a simple IRET instruction. To actually use the alarm, hook routine onto Int 4Ah to sound a pop up a TSR or do whatever you

The bytes that have been left the CMOS table are either unused to store proprietary information data that is not of much use to us older manuals tell you that you can your own data at locations in the that were unused then, but treat caution as the newer BIOSes often their own information there. On AWARD BIOS 4.50g though, bytes 3Ah seem to be unused – you can store your own name there.

Enjoy CMossing around!

To profit from India's info-tech revolution, be a part of it.

Be a dealer/distributor for world class products from HP, EXIDE, KINDERMANN and FIC

ECIL, India's most advanced electronics company and the pioneers of information technology in the country enjoys a major presence in computers, communications and control systems.

ECIL has recently introduced state-of-the-art advanced range of **Multimedia note book computers, UPS, Laser and Inkjet printers, Data/ Video projectors** and **LCD projection panels** from the world's leading manufacturers HP, EXIDE, KINDERMANN and First International Corporation. For these products as well as ECIL's advanced range of computers and software, the company is looking for **dealers** and **distributors** (throughout India except Andhra Pradesh). ECIL provides the necessary customer support service for all these products through its nation-wide network.

ECIL invites trade enquiries from persons organizations dealing in computers and related items.

Interested parties may get their application on payment of Rs. 200 in the form of demand draft drawn in favour of Electronics Corporation of India Limtied, payable at Hyderabad.

Enquiries along with the demand draft may be sent within 15 days to the Head, Technical Services Division CMG, ECIL.

SAPTEC

ELECTRONICS CORPORATION OF INDIA LIMITED

ECIL Post, Hyderabad - 500 062.

SISTA SAATCHI & SAATCHI

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Replace Tally & EX With VISIPAK

ats off to you ! You have been using Tally & EX courageously ITHOUT many of the following important features.

- Coded / Codeless Facility Simultaneously.
- User Definable Balance Sheet
- Export Documentation
- Payroll facility
- Production Planning & Bill of material
- Word processor / Mailing List
- On-Line TDS deduction System.
8. Finished Goods / Raw material Inventory
9. Unlimited Nodes for LAN version.
10. No nuisance of a Key Diskette.
11. C&F Agency Sales & Stock Management.
12. Extending & Customising it yourself.
13. Point-of-Sales Vr for Shops / Stores.
14. Super Speed data Entry in DOS / LAN.

THIS IS WORLD CLASS STUFF

ON-LINE FINANCIAL ACCOUNTING
EXPORT DOCUMENTATION & INVOICING
BUDGETING, RECEIVABLES, PAYABLES
PRODUCTION PLANNING & INVENTORY
BILL-OF-MATERIALS FOR PRODUCTION
SALES ORDER , SALES TAX & EXCISE
WORD PROCESSING / MAILING / LABELS
FULL ON-LINE TDS WITH FORM 16A
C&F AGENCY - SALES / STOCKS CONTROL
FULL PAYROLL SYSTEM INCLUDING BONUS

QUE CODED/CODELESS SYSTEM WITH BOTH OPTIONS AVAILABLE SIMULTANEOUSLY

n't believe it ! Well - SONY INDIA, SAMSUNG INDIA, MESCO , VIDEOCON, MONTARI , DI ENTERTAINMENT, NUCHEM LTD, COLLAGE GROUP, ESSAR CELLULAR, THAPAR RO, SUNSTAR LUBRICANT, SGS THOMPSON, KUBER FINANCE Etc decided on VISIPAK.

DEALERS WANTED

RADIX

RADIX SOFTWARES PVT. LTD.
M-4, AASHIRWAD BUILDING,
D- 1, GREEN PARK, NEW DELHI-110016
PHONES: 663274; 686-8071 FAX: 91-11-6852299

EDABAD:ARK-462996 **BAREILLY:**CLASSIC-455005**BARODA:**COMPS-329374**COCHIN:**MENON-366099**DEHRADUN:**COMPUMATE-629006
HARPUR: DATATRAC-21900 **MADRAS:** COMPUSOFT-4990212 **PUNE :** INFO-ELECTRONICS-623794 **SAHARANPUR :** RB TECH-723330

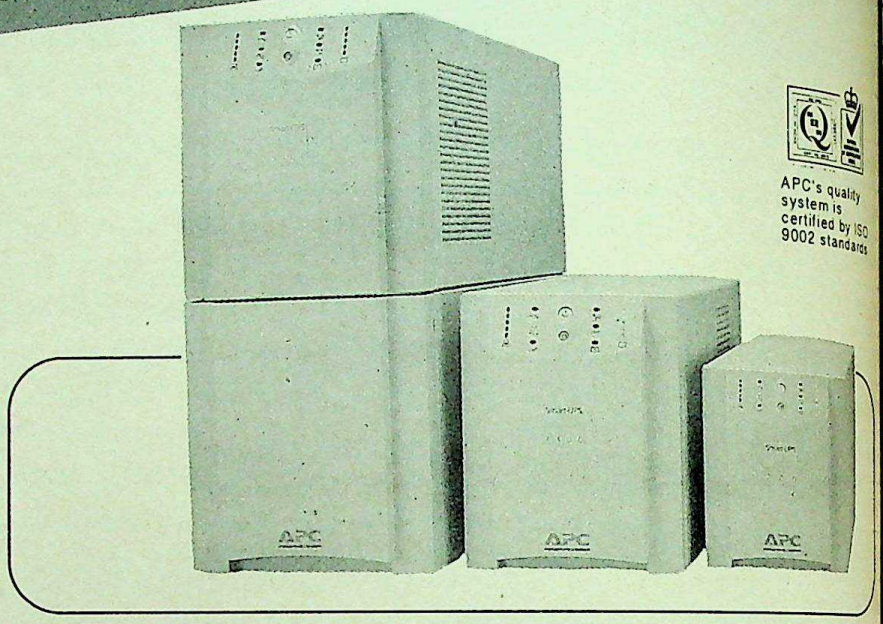
& EX softwares belong to Peutronics Ltd & TCS Ltd. respectively.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

APC™
AMERICAN POWER CONVERSION
UPS SYSTEM

World Over Users of APC UPS Systems are satisfied with our Unmatched Reliability & Excellent Performance



APC's quality system is certified by ISO 9002 standards

The Ultimate Solution to Power Problems

As Reliability

APC-UPS can be managed locally in a LAN or WAN environment or via telephone line & environmental monitoring capabilities will ensure automatic shutdown in case of high temperature, fire etc.

Unmatched Reliability with **2 YEARS WARRANTY** Inclusive of Batteries

Range 250-5000 VA

As Performance

UPS of APC are the only one to support all leading operating systems and network management platforms.

- ★ Plug & Play UPS Designed for Windows '95
- ★ Apple Macintosh-System 7
- ★ Integration with server
  - Insight Manager COMPAQ
  - Net Server Assistant HP
  - Netfinity-IBM
- ★ Power Chute Plus available for Netware, Windows NT,OS2, Unix etc.

This is why APC is the most preferred UPS in the world.

BROUGHT TO YOU IN INDIA BY :

VIDUR & CO. PVT. LTD.

707, Manjusha Bldg., 57 Nehru Place, New Delhi-110019. Phone : 6223085, 6219159 Fax : 6219153

DEALER ENQUIRIES SOLICITED

AUTHORISED STOCKISTS : **BOMBAY :** Hindustan Circuits Ltd., Ph. : 3866546, 3824595 Fax : 4932325 ● **FARIDABAD :** Ascendant Information Technologies, Ph. : 252254

AUTHORISED RESELLERS : **AGRA :** Chandra & Co. : Ph. : 369041, 369045 Fax : 369041 ● **ALLAHABAD :** Technofab Corporation, Ph. : 603240 Fax : 609192 ● **BANGALORE :** Binary Infotech (P) Ltd., Ph. : 2266610, 2266630 Fax : 2266610 ● **BOMBAY :** Compu Shop Pvt.Ltd., Ph. : 3867574, 3828981 Fax : 3886429 ● Sharp Systems, Ph. : 3821685, 3864485 Fax : 3877358 ● Robocom Business Systems Ltd. Ph. : 8348755 Fax : 8351304 ● Suntrac Systems, Ph. : 3430619, 3430620 ● **CHANDIGARH :** Spectrum Systems, Ph. : 702024, Fax : 227334 ● **GUWA** : Datamation Services, Ph. 520224, 544801 Fax : 520225 ● **HYDERABAD :** Interface Technology Pvt. Ltd., Ph. : 672908, 671928 Fax : 6 ● **DEHRADUN :** Rans Electronics, Ph. : 626039, 621150 Fax : 632915 ● **GOA :** The Compu Shop, Ph. : 228916, 242586 Fax : 227334 ● **GUWA** ● **JAIPUR :** Computer Clinic, Ph. : 315856, 313253, 372993 ● **LUCKNOW :** Vanguard India, Ph. : 231752 ● **MEERUT :** M.S.I. Ph. : 6 ● **MADRAS :** Sri Lakshmi System Products, Ph. : 8282272, 8281441 Fax : 8282272 ● **MORADABAD :** XL' Brain Computers, Ph. : 3177 : 312365 ● **NEW DELHI :** 3 EM, Ph. : 6474538, 6218112 Fax : 6225932 ● Justrite Information Systems, Ph.: 5412499, Fax : 5412499 ● Computers Pvt. Ltd. : Ph. : 6111272, 609775, 674651, 6116654 ● Digital Promoters (India) Pvt. Ltd., Ph. : 6449660, 6432286, 6445866, 64 Fax : 6437849 ● True Solutions (India) Pvt. Ltd., Ph. : 6463763, 6229849 Fax : 6210062 ● Five Dimension Computers Pvt.Ltd., Ph. : 621 6222561, 6222562 ● **UDAIPUR :** Tayal Software Consultancy Services, Ph. : 525610, 529087 Fax : 523879

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVERTISERS - INDEX

This index is to help you in locating a particular advertisement in this issue. However, if you want further information on any product/service advertised in here, just put the appropriate code number in the 'Reader Query' card and mail it back to us. We will forward your query to the concerned company.

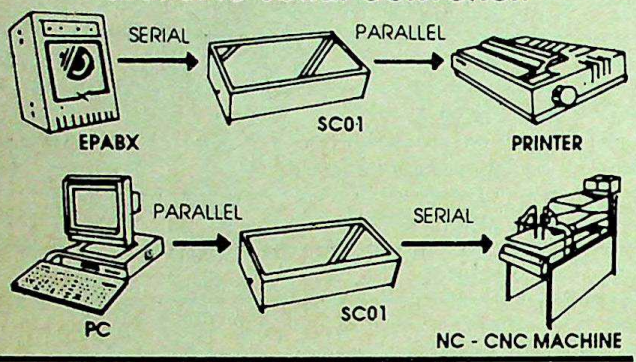
Code No	Company	Page
0201	Albit Electronics	23
0202	Aabha	25, 27
0203	Adroid	99
0204	C-Dac	62, 63
0205	C-Tel	85
0206	Coral S/W	96
0207	Digital World	106
0208	Elnova	16
0209	Ecil	95
0210	Elent	108
0211	EDP Aids	162
0212	Fifth Generation	81
0213	Fiskars	104, 105
0214	F-Prot	114
0215	Guard Electronics	110
0216	HP	35, 37,
0217	HP	39, 41,
0218	HP	43, 45, 47
0219	HP	IBC
0220	Hexaware	157
0221	Hong Kong Bank	174
0222	Intel	6, 7
0223	Infosys	19
0224	Infinite	54
0225	Industrial Adapater	149
0226	Kunhar Peripherals	122
0227	L&T	21
0228	Logix	165
0229	Lipi Data	168
0230	Multitech	IFC
0231	Microsence	11,
0232	Mastek	121
0233	Microsys	13
0234	Microware	178
0235	Media Technologies	87
0236	Microtek	133
0237	Max Systems	158
0238	Modular System	172
0239	N&N	68, 69
0240	Oracle	55
0241	Priya International	78-140
0242	Pustak Mahal	153-155
0243	Proland	161
0244	PLC	158
0245	Philips	8
0246	Quantum	134
0247	Redington	4
0248	Radiant	71, 73
0249	Radix	89
0250	Svam S/w	49, 64
0251	Softline	95
0252	Softek	84
0253	San Telequip	92
0254	SES Technologies	94
0255	Samtech	102
0256	Samtel	117, 119
0257	Satyam	123, 125
0258	SQL	166
0259	Sandur Electronics	8
0260	Technologies	58
0261	Transdot	80
0262	TVSE	93-175
0263	Vertex	1
0264	Vintron	15
0265	Vidur & Company	90
0266	Wipro Peripherals	2, 3, 150, 151
0267	Wanland	32
0268	Wipro S/W	59
0269	Xon Communications	171
0270	Zenith	BC

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

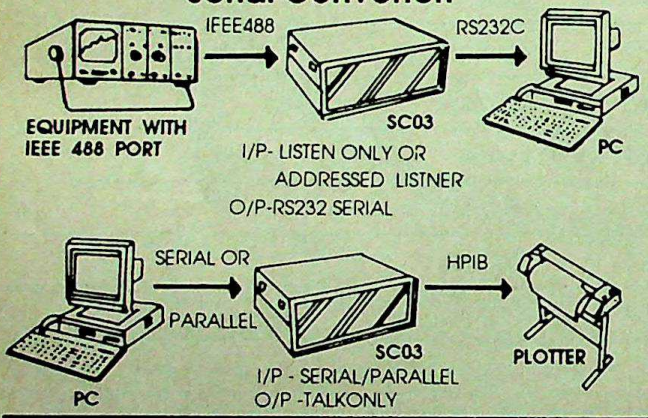
Digitized by Arya Samaj Foundation Chennai and eGangotri

CONVERTERS THE ULTIMATE IN CROSSCONNECT COMPATIBILITY

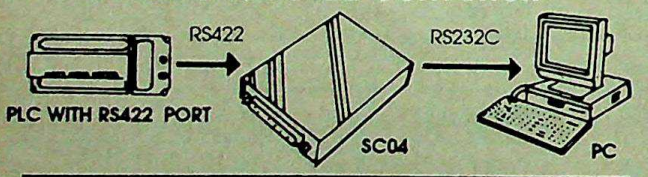
Universal Serial to Parallel OR Parallel to Serial Converter.



IEEE488/HPIB/GPIB to Parallel/ Serial Converter.



RS232C to RS422 Converter.



Interface that can be supported

- Current Loop/TTY • Rs 485/ Multidrop
- New 4 to 20 mA.to Rs 232 C. Converter
- Rs 423/ Rs 449/ Rs 442 • Rs 550 • V. 35 CCITT

Manufactured & Marketed By :

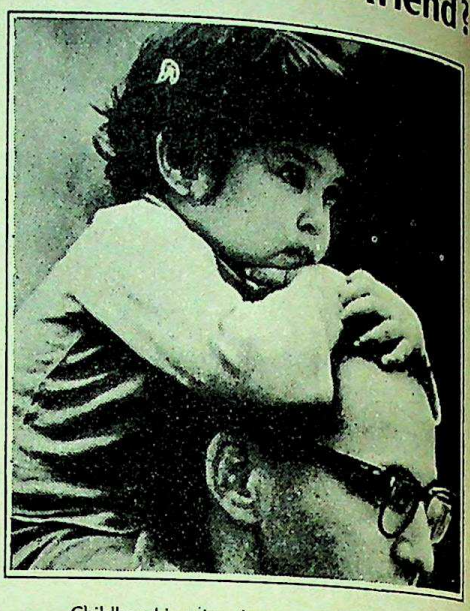
SAN TELEQUIP
PRIVATE LIMITED

•F -7, Paresh Industrial Complex, 45/2, Shankarsheth Road, Pune - 411 037. Tel : (0212) 655970. STQ Fax : 212 - 642996.

AUTHORISED DEALERS • **Ahmedabad:** Kone Tel: 466895, 425691 • **Aurangabad:** Mainframe Computers. Tel: 333120, 333171 • **Bombay:** Crystaline. Tel: 5690472 Lalwani. Tel: 3821054, 3821054, 3872403 • **Baroda:** Yuva ElectrosalesTel: 331612. • **Bangalore:** Savim Technology. Tel: 3304236 • **Bhopal:** Pearl Mktg. Tel: 588748 • **Bhubaneshwar:** Oricom Systems. Tel: 400343 • **Calcutta:** Eastern Computell. Tel: 272714, 279574 • **Delhi:** Skope. Tel: 6421039 • **Hyderabad:** Forward Technologies. Tel: 850601. Computer Den Tel. 813303 Mohan Mktg. Tel: 849929 • **Indore:** New Computer Tel. 532362. Master Computer Tel 431970 • **Jaipur:** Computer Growth. Tel. 311506. Bits & Bytes. Tel: 366862 • **Kolhapur:** Protech. Tel: 620683 • **Madras:** National Instruments Tel: 844090 • **Nagpur:** Impact. Tel: 538806 • **Nashik:** Digilog. Tel: 578834 • **Pune:** Crystaline Tel: 433155 Insat Lynx Tel. 451221, 451521 Pune Computers. Tel 323670. Prithvi Computers Tel: 455259 • **Sangli:** Karan Computers Tel. 76348.

DEALER/OEM ENQUIRIES WELCOME

When was the last time you made a true friend?



Childhood is a time for joy and wonder. A thousand questions. And ever so many memories...

Birthday's, festivals, schools and friends.

In the innocent journey across life there is the happiness of a secure home, loving parents, understanding brothers and sisters.

Yet, today there are many children in India who have never experienced the joy of a loving family. Children like yours, but ... orphaned ... abandoned ill-treated, left without hope. They need your help. They deserve a future.

Make a friend at SOS Children's Villages

Share your happiness with children who need it. Develop a bond that nurtures and evolves into a lifelong friendship. Give them a cause for joy.

SOS: A Vision in Action

SOS Children's Villages of India is a nationwide, voluntary, non-profit, child welfare organisation. It is the aim of SOS to make every child self reliant through its Children's Villages and Bal Sadans.

As against the old restrictive and isolated system of orphanages SOS provides a cheerful and constructive environment to grow up in. A Mother takes care of 8 or 9 children in an independent home. 10 or 20 such family units constitute an SOS Village. Today there are 26 SOS Children's Villages and many Bal Sadans, Schools, Rural Extension Programmes and outreach schemes throughout the country.

You can do something for these children NOW as an individual or as an organisation.

I want to:

- ☐ Sponsor a child/become an SOS Village Sponsor: Rs. 200/- per month/Rs. 2400/-annually.
- ☐ Educate a child, by contributing to the SOS Educational Corpus Fund: Rs. 30/- per month/ Rs. 360/- annually
- ☐ Become a friend of SOS: Rs. 15/- per month/ Rs. 180/- annually.
- ☐ Give a donation.

Contributions may be made as convenient — monthly, quarterly, half-yearly or yearly.

I am instructing my Bank/enclosing a crossed cheque/demand draft/M.O. in favour of SOS Children's Villages of India.

Name Mr/Mrs/Ms _____

Address _____

_____

_____

Profession _____ Date _____

Birthday _____ Tel _____

SOS CHILDREN'S VILLAGES OF INDIA
A-38, Kailash Colony, New Delhi-110 048.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...Electronics Ltd. was launched in 1986 and in a span of ...years is the largest manufacturer of computer peripherals ...India. TVS Electronics has been promoted by the ...ndogous TVS group, the twelfth largest business house in ...

...Electronics has collaborations with the world's leading ...facturers such as Citizen, Japan, Oki, Japan and Victron ...Netherlands.

...Electronics offers a wide variety of printers to match ...printing need.

...Q series printers have a long head life and come with a ...two year warranty. In addition to this they are virtually ...less, offer a colour printing feature, and many other ...-of-the-art features.
...4 models available in this series are Q10, Q20, Q25 and ...

...HD series represents the series of "Intelligent printers", ...s to their self-adjusting printhead and smart paper ...ding technology.
...printers are designed to tackle high speed, high quality ...ing on a flexible range of paper sizes and thicknesses ...ding multi-part stationery. All this without sacrificing on ...quality.
...models available in this series are HD 5000, HD 5650, HD ...HD 6590 and HD 6595.

...MSP series printers, sleek and elegant in appearance, ...known for ruggedness and reliability. They form India's ...st selling range of dot matrix printers.
...models available in this series are MSP 145 Plus, MSP ...MSP 240 and MSP 255.

...Novo series printers, are designed to meet all your day ...printing requirements and more.
...models available in this series are Novo 130 and Novo ...

...Electronics is designed to providing the highest level of ...rt to its customers. To deliver complete customer ...faction, TVS Electronics has extended the reach of its ...sales service facilities, both through its own regional ...s and the network of TVS Electronics Authorised Service ...res all over the country.

...no wonder then, that TVS Electronics printers were ...ared as the most popular of all dot matrix printers in a ...evaluation survey conducted recently.

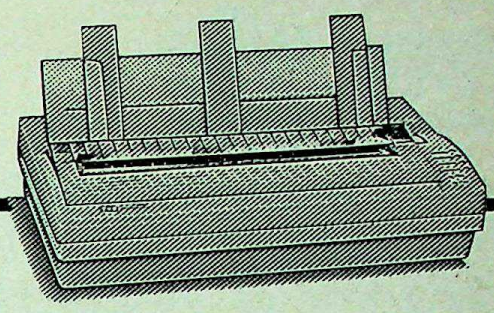
...rand Evaluation for Dot Matrix Printers

Total Base: 159963 units sold

...nk	Brand Name	S.O.M.
...)	TVSE (Calligra/MSP/Novo/HD)	38.35%
...)	Wipro Epson (LX/EX/FX/LQ/DFX)	37.49%
...)	L&T (Samsung-SP)	11.27%
...)	Panasonic	8.18%
	Godrej	2.27%
	TOTAL	97.55%

...e: Computer World - December, 95.

...Electronics has left an indelible impression, not just the ...they print on, but also on the user community at large.



Q25
The 24 pin, 136 col., 240 cps printer.

Designed in India
– World class features.

Extra long head life
– 200 million characters.

Two year warranty
– Double that of any other printer.

Silent printing
– Thanks to its Citizen Acoustic Technology.

Colour printing
– Even on transparencies.

2 scalable fonts
– Eye catching documents.

For further information, contact:
TVS ELECTRONICS LTD., 10-B, I Phase,
P. O. No. 5805, Peenya, Bangalore 560 058.
Tel.: 839 5000. Fax: 839 6334.

TVS
ELECTRONICS
The No.1 in printers

The Q Series consists of Q10, Q20, Q25, Q35. Ambience/TVSE/37

For further information, call TVS Electronics, **Ahmedabad:** 7411227/7478619. **Bangalore:** 2261723/2261713. **Bombay:** 6247350/6247364. **Calcutta:** 262137/268355. **Delhi:** 6212576/6212577/6212578. **Madras:** 6412422/6412650. **Pune:** 332856/369346. **Secunderabad:** 847244.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SAI

SES

"NOW AVAILABLE
FROM SAI SERVICE
AT AFFORDABLE PRICES."

Mother Boards & Processors from Intel Corpn. The World's No.1 in microprocessors

With an Intel* Pentium™ microprocessor inside your computer,you'll find it easier ,smoother and faster to run all your critical software applications.
Almost 75% of the world's computers have an Intel* processor.
When you look for a computer,make sure its with Intel in the inside.

Authorised Distributors:
SES COMPUTERS & TECHNOLOGIES PVT.LTD.
11,S.N.S.Chambers, 239 Sankey Road,Bangalore 560080.
Tel:080-3348481 Fax: 080-3343685.

*Intel and Pentium are registered trademarks of Intel Corpn.

Branches:
BOMBAY- Tel: 022-8380055 / 8341584 Fax: 022-8380266
NEW DELHI - Tel: 011-6888664 Fax: 011-6115933
SECUNDRABAD - Tel: 040-847838 Fax: 040-815321

Sai Service
International PTE LTD.
Singapore.
Tel: 2271962 Fax: 2271963

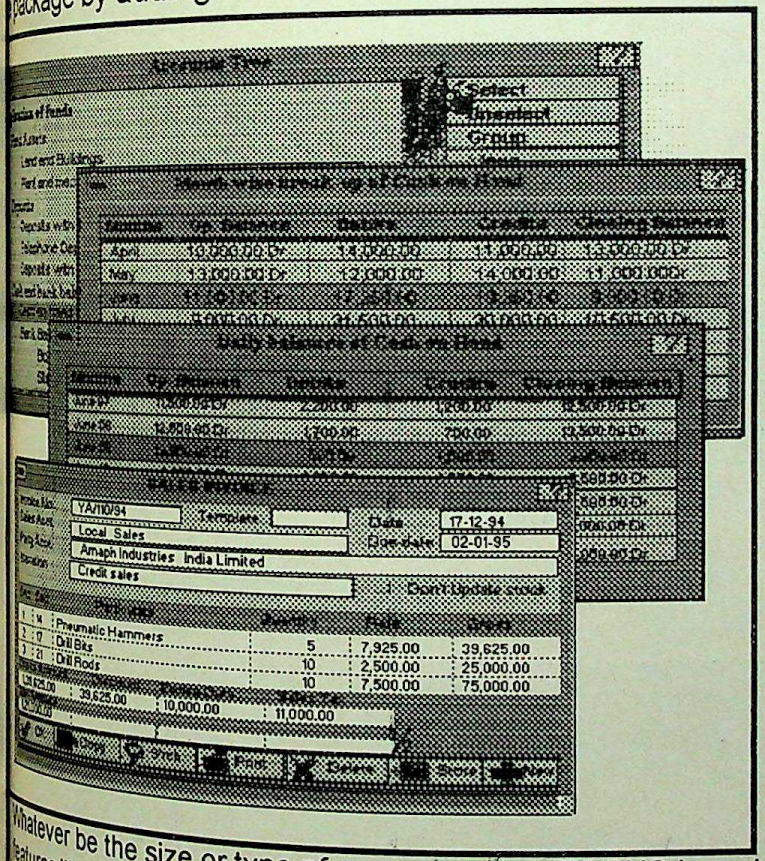
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

FOCUS V4.5

The Enterprise-wide Accounting Solution

us is a powerful and on-line accounting software with many features unique to it. It blends
r-friendliness with high operational speed and flexibility. It integrates Financial Accounting
Inventory Control, Order Processing and Production Accounting and comes with an intuitive
erface and aesthetic screens. Besides the standard reports available, it lets the user extend
package by adding his own reports based on unique parameters.



Includes:

- **Financial Accounting**
- **Inventory Mgmt.**
- **Order Processing**
- **Production Accounting**
- **Invoicing & Voucher Printing**
- **Payroll Accounting & TDS Calculations**

Available on Single-user & multi-user Platforms

Whatever be the size or type of your company, FOCUS is an ideal tool for business management. Unique features like WYSIWYG, Zoom-in from all reports, Add /Delete / Modify vouchers within reports, online filtering of reports and query building coupled with powerful utilities like Bank reconciliation, templates for data-entry, Voucher renumbering, Locking of database, tamper-proof security, Copy vouchers, Merging of data and Import/ Export of data make FOCUS the first choice for any business enterprise.

Developed By & Copy Right of:

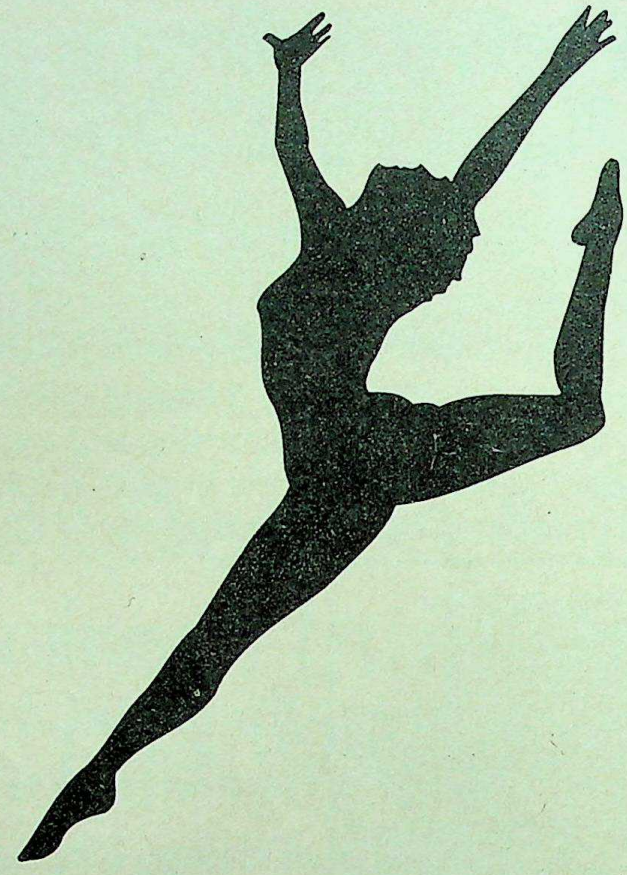
SOFTLINE Software Services (P) Ltd.

6-3-659/a, Kapadia Lane, Somajiguda, **Hyderabad**-500482,Ph. 311052, 396674 Fax: 396674;
Madras- 98, Chamiers' Road, 600 018, Ph. 454411, Pager (9610)105449 ,
Bangalore- 276, 5th Main, 33rd Cross, 4th Block, Jaya Nagar, 560011.Ph. 6652860, Pager (9612)405776

Dealers: Ahmednagar: Upward Systems Corp. 26663 **Aurangabad**-335036; **Bombay:** Aibani Computers 3420188,3439712; **Coimbatore:** Surya Agencies 573665; **Madras:** Naik Brothers 6421115; **Vijayawada:** Accord Softwares-436556; **Dubai:** Al-Harmi Trading Establishment Ph 232171.

Dealership Enquiries Solicited

Digitized by Arya Samaj Foundation Chennai and eGangotri



FLEXIBILITY

• Pocket Phone Index
• Address Book
• Word Processor
• Mail Merge
• Phone Dialer
•

• User defined fields • Customisable reports • User defined new reports •
• Criteria based reporting • Category-wise reporting •

OMEGA

Personal Information System

CORAL SOFTWARE

Coral Consultants Pte Ltd
157c Lenin Sarani Calcutta 700 013 Tel: 275091, 267238 Fax: 033-2214212 email: coral@cirrus.lwbbs.co

Distributors: Reliable Infotech Suite 315, 33/1 N S Road, Calcutta 700 001 Tel: 2214212 2211703 Fax: 033-221
Dealer Network: Bombay 5164713 Dehradun 551 684159 Durgapur 823443 Golaghat 20207 20292 Hyderab
599829 231027 Jamshedpur 427471 431630 Lucknow 72342 Madras 582293 Patna 227184 Raipur 27214 Ranc
202020 Raniganj 446271 Shillong 220244 Surat 634152 Varanasi 361984

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Microsoft Ancient Lands

A near-successful effort at livening up history

CD ROM

Microsoft Ancient Lands. CD-ROM for Windows. Price: Rs 2,340. RQS #E0220

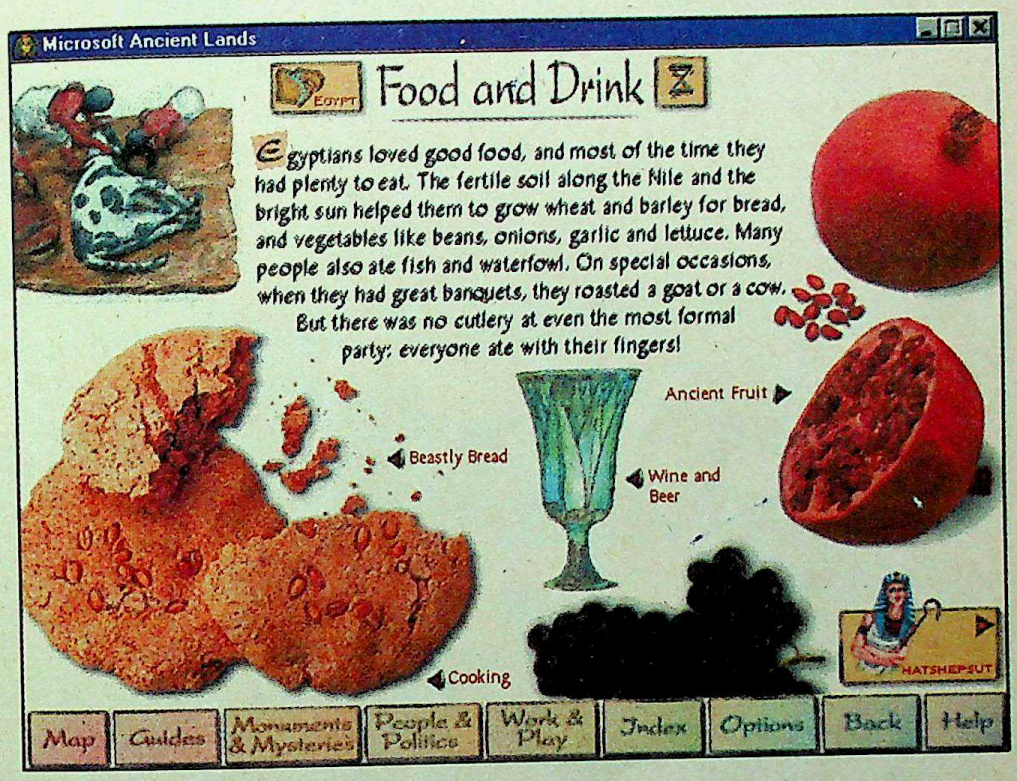
History on a multimedia CD-ROM: Text, pictures and commentary guide you back in time, with snatches of life, people and politics, myths and monuments and history from ancient Greece, Rome and Egypt.

hat was high fashion a thousand years ago in Greece? What did they eat in ancient Rome? Why are there so many es of Ramses II in Egypt?

s Microsoft Home Ancient Lands e shows glimpses of life from civiions of ago.

u start out with a map that's full- but not, unfortunately, full- The eastern civilizations aren't n the map, so you have to make h Rome, Greece and Egypt—and ing glimpse of the Indus Valley ction. If you want to explore spemonuments of these lands, you ick them on the map.

u can choose to explore the lands the alphabetical index, or let your s take you on a tour of the place ll home. Let an Egyptian queen e you to tea, let a Greek goddess

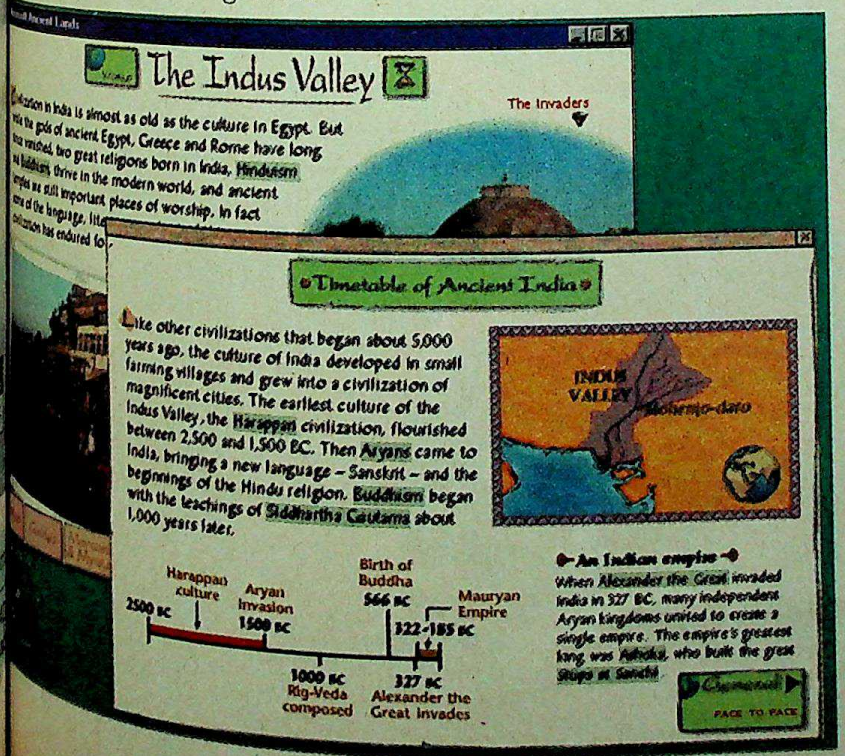


complain away about how she's being treated or, if you prefer, explore on your own. You learn about Monuments and Mysteries, People and Politics, or Work and Play. There is some introductory audio commentary, but mostly, you read your way through.

This CD-ROM follows a format similar to many of the others from the Microsoft Home collection, but isn't half as lively as some of them. There are no video clips, and only one or two animations. (Animations? Yes, there's adequate scope—snatches of excavations in Egypt, visits to museums, or life around the ancient monuments today.)

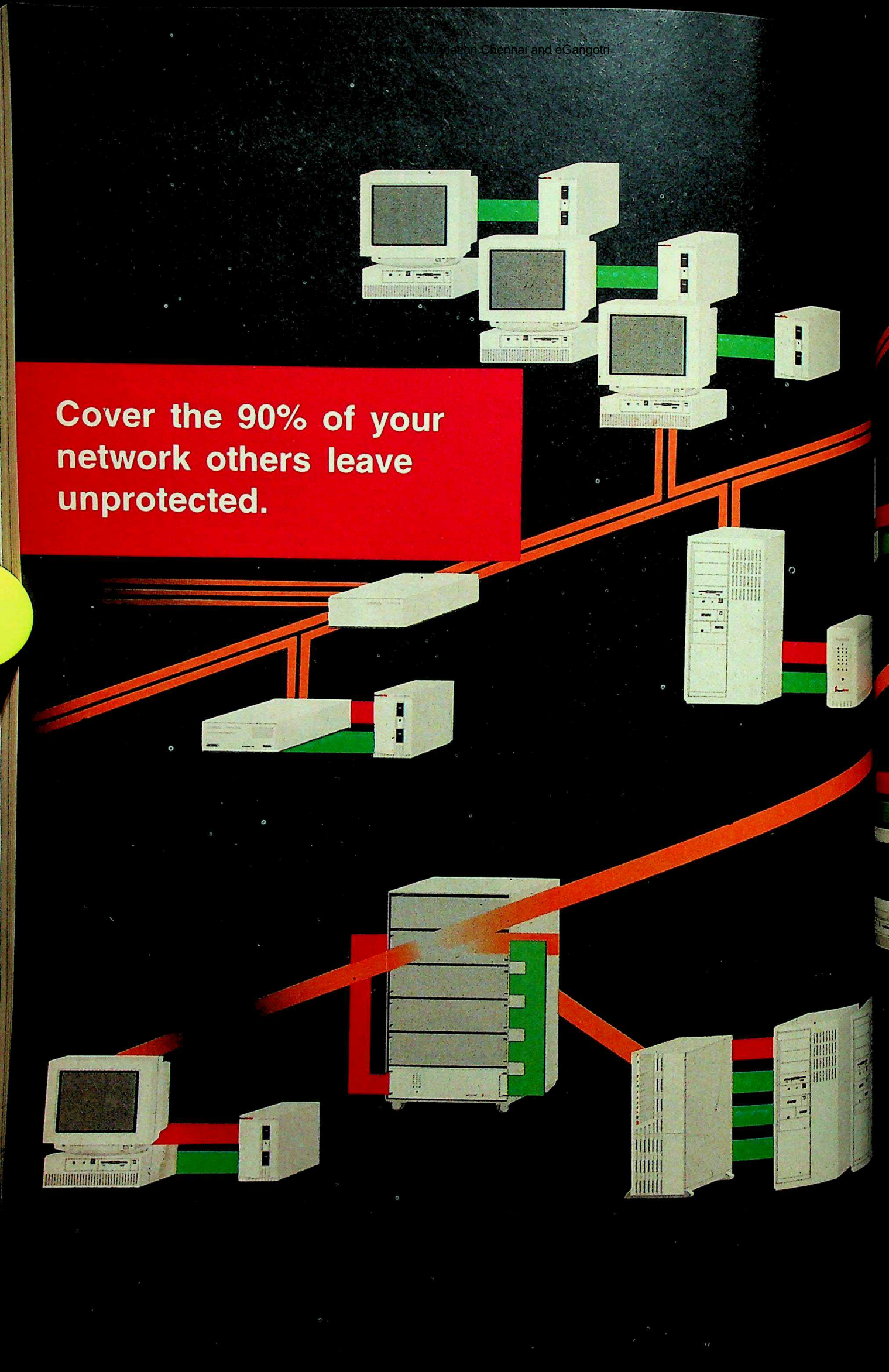
Yet the overall effect is neat and well-integrated. Movement across pages is fluid and the pictures are clear and interesting. A nice way to liven up history for a bit.

Mala Bhargava



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CC-0. Kurukshetra University Kurukshetra. Digitized by eGangotri



Digitized by Arya Samaj Foundation Chennai and eGangotri

Take a look at how your data network is protected against power disturbances.

You probably have the traditional system which provides orderly shutdown for your servers in case of a power outage.

But have you thought about the remaining 90% of the network?

Fiskars Power Systems is introducing a totally new network power protection solution that covers the points other systems leave open. Let us give you an example.

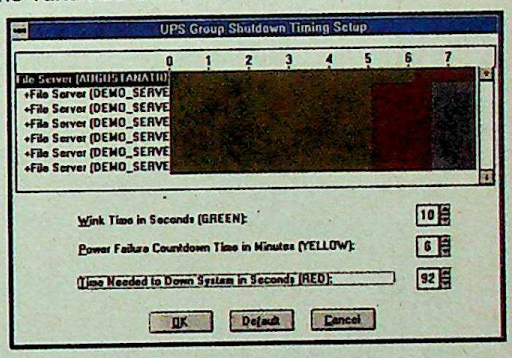
When power goes out, Fiskars' new sequenced network shutdown solution shuts the network down in three steps:

Step 1:
Fiskars' advanced software tells the workstations to send all data from their RAM caches to the server. Then it shuts the workstations down. It even saves all unsaved data in Windows and exits it in an orderly fashion – something no other software can do!

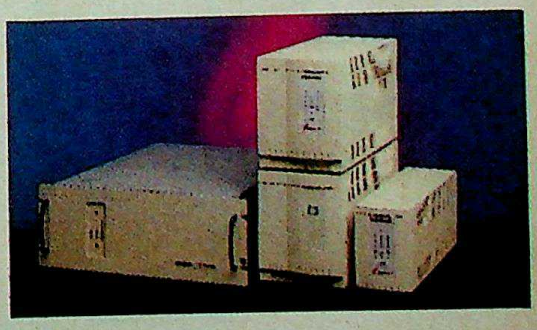
Step 2:
Bridges and other communications devices are kept running so that all data has time to pass through. Then they are shut down.

Step 3:
The servers are supplied wtih power long enough for all data to be written on hard disk before the server is powered down.

A built–in safety feature ensures that the runtimes of workstations cannot accidentally be configured longer than those of the communications devices or the file servers. You can be certain that no data goes missing on its way from the workstation to the file server under any circumstances.



This new solution is made possible by Fiskars' LanSafe III network power management software and a wide range of Power Rite Plus and Power Server UPSs, covering all your power needs from 250VA to 6 KVA. All Fiskars' UPS hardware is VDE approved.



The Advanced Battery Management ABM(TM) technology present in all Fiskars UPSs prolongs battery life by up to 30%! And unlike competitive brands, Fiskars UPSs never crash the network even if a battery test fails.

The quickest way to really protect you network is to contact a Fiskars authorised reseller right away. Phone us for the address of your nearest stockist.

FISKARS **POWER SYSTEMS**

Next Generation Business Power Systems Ltd.

"Next Generation House"
Gulmohar Park Club Road,
176, Gautam Nagar,
New Delhi-110 049

Tel. :
+91-11-6965645/6859256/6859257
Fax. : +91-11-6963559/6883629/6460961
e-mail:psdelhi.crecent@axcess.net.in

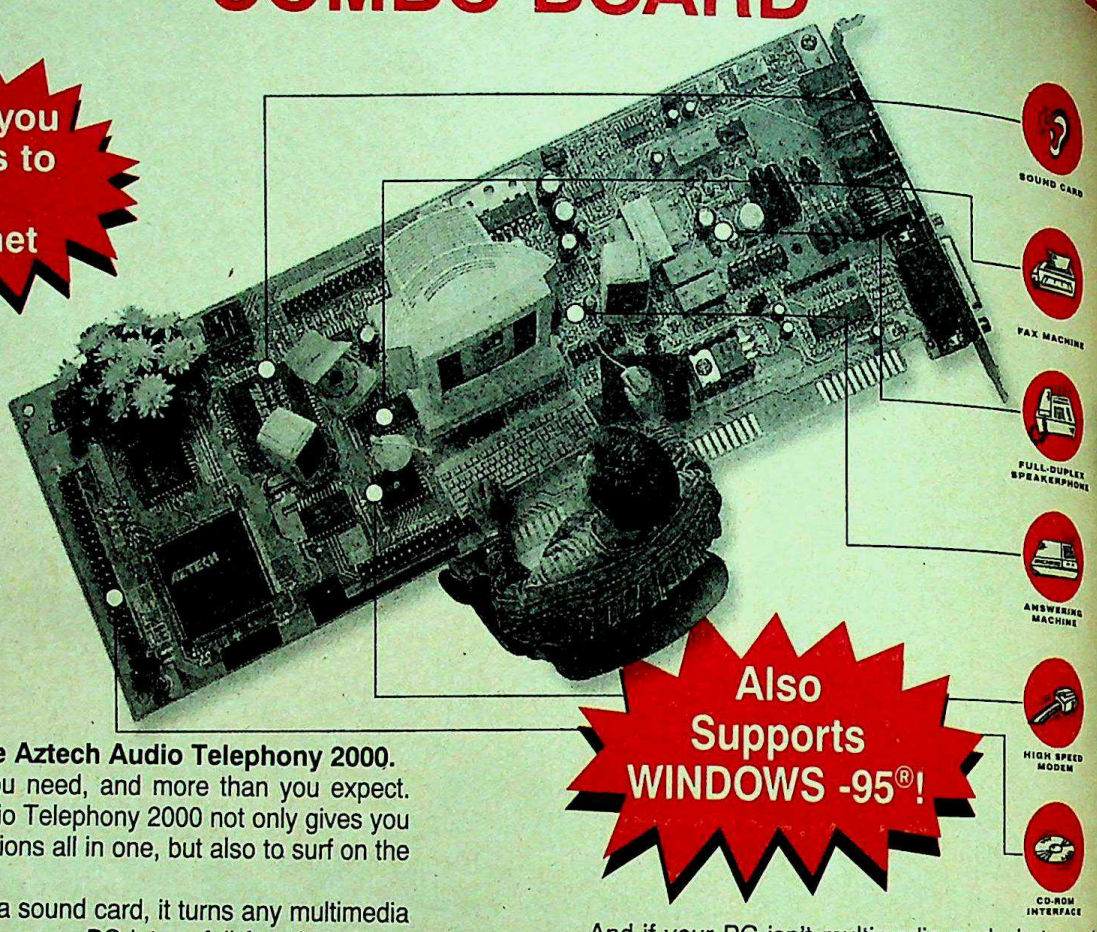
BRANCH OFFICES: • **Bombay:** 624 Navjeevan Society, Building No. 3, 6th Floor, Lamington Road, Bombay-400008, Ph: 3078018, 3083041, 3083423 Fax: 3072703 • **Hyderabad:** 6-3-249/A4, Navin Nagar, Hyderabad-500 004, Ph: 390436 • **Calcutta:** 904-905 "KRISHNA" 224, A.J.C. Bose Rd. Calcutta-700017 Fax: 033-2474348 Ph: 408401/408503 • **Madras:** Flat No, 104, Prince Centre, 709-710, Pathari Road, Madras, Ph: 8524245 • **Bangalore:** No, 41, A.J. Chambers, 1st Floor, R.V. Road, Basavanagudi, Bangalore-560004 Ph: 6620922/6615553/6615554 Fax: 6610666 IC No.: 175 • **Gandhinagar:** Abhishek, 10, Tejas Society, Sector No. 23, Gandhinagar-382023, Ph: 21798

CC-0. Mumukshu Bhawan Varanasi Collection. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

UPGRADE YOUR PC WITH 6-IN-ONE COMBO BOARD

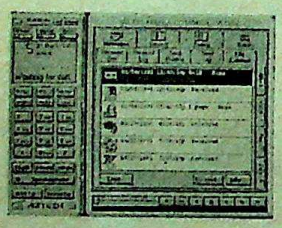
Gives you access to the Internet



Also Supports WINDOWS -95®!

Introducing The Aztech Audio Telephony 2000. It's everything you need, and more than you expect. Because the Audio Telephony 2000 not only gives you six powerful functions all in one, but also to surf on the World Wide Web.

More than just a sound card, it turns any multimedia PC into a full function phone system. It has full-duplex speakerphone, that lets you talk and listen at the same time, with better voice clarity and reduced noise feedback. It offers great features like auto-answer voicemail with multiple mailboxes, a photo based phone-book, call screening and more. And since Audio Telephony 2000 is also a CD-ROM interface, it even lets you play your favorite CD's as add-on music for callers. What's more, it offers full fax-on-demand capabilities, fast 14.4kbps data transfer and brilliant 16-bit audio for after-hours games, music and multimedia CDs



Multimedia Communicator software easily keeps track of phone and fax numbers and dials automatically!

And if your PC isn't multimedia-ready, just upgrade to the Home Office 2000 - 6x Kit that gives you Audio Telephony 2000, a 6x-speed CD-ROM drive, and much more.

If you are thinking of buying a Home Office PC that gives you access to the Internet, take a look at the latest Aztech P120 Powermedia PC delivering true Pentium Power with telephony functions.

For those features with the quality of Aztech - the world's 2nd largest sound card manufacturer is now available.

Introductory offer See Coupon

Call Us Today

AZTECH

FULL POWER MULTIMEDIA

DIGITAL WORLD INDIA LIMITED

Authorised distributors : **DIGITAL WORLD INDIA LTD.,** National Headquarters 97, Marol Co-operative Industrial Estate, Andheri-Kurla Road, Marol, Andheri (East), Bombay - 400 059. Tel.: (22) 8381922/8385686/8343500/8344600 Fax : (22)8381604
● Ahmedabad Tel: (79) 468292 ● New Delhi Tel: (11) 6466463/6469988 ● Lucknow Tel: (522) 233392/248346
● Jaipur Tel (141) 382378 ● Madras: Tel: (44) 6429600/6429610 ● Bangalore Tel: (80) 2221143 ● Hyderabad Tel: (40) 845378

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

World of Flight

The history and technology of flight

CD ROM

Microsoft Home Exploration Series: The World Of Flight. CD-ROM for Windows. Rs 1,570. RQS #E0221

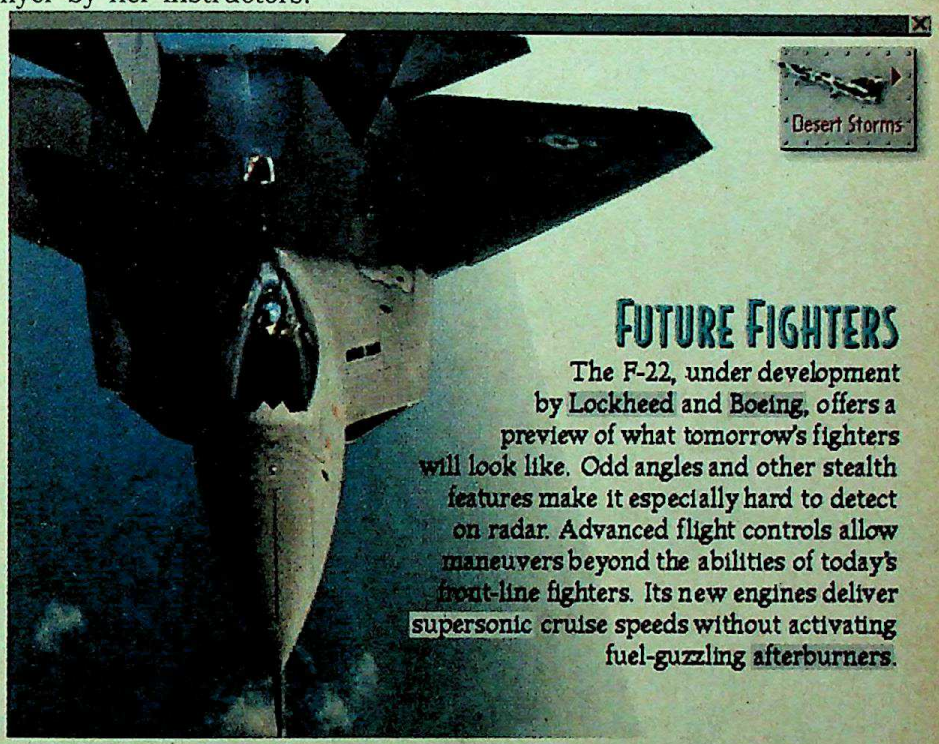
The history and technology of civil and military aviation, in a multimedia product that fluidly integrates text and narration with video clips, "how-it-works" exploded views, and bits of trivia.

From the 18th century hot-air balloons and Otto Lilenthal in the late 19th, to the Wright brothers in the early 20th to the Space Age today, this CD-ROM volume captures the fascinating story of aviation.

This package is impressive in content and presentation. From the first labored flight on the plains of Kitty Hawk to the nimble maneuvering of Falcons and Tomcat jets, you can see it all.

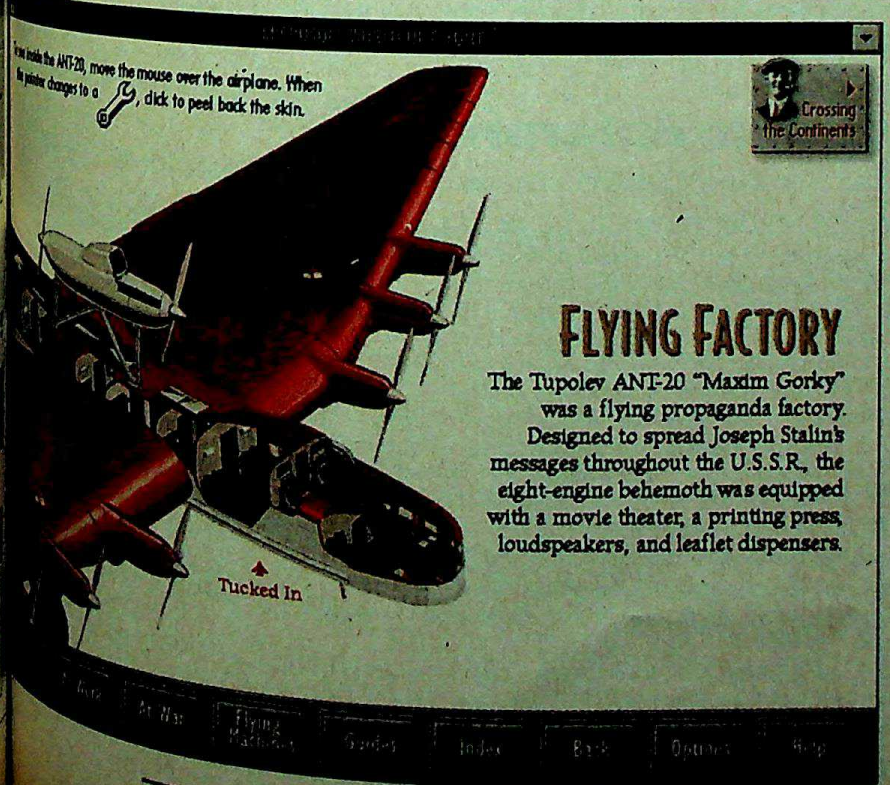
There's information on almost all the aircraft you can have heard of, and some you never knew existed. These include the F-117 stealth fighter (Night Hawk) and the B-2 stealth bomber. But this alone does not make this title. What does is the inclusion of lesser known, sometime bizarre aircraft such as the Tupolev ANT-20 'Maxim Gorky', and others.

Browsing through the disk, you can get interesting trivia without reading dozens of aviation history books. Take German ace Eric Hartman, with 350 confirmed kills, who was shot down on his first combat mission...or Amelia Earhart, who was considered a pretty poor flyer by her instructors!



FUTURE FIGHTERS

The F-22, under development by Lockheed and Boeing, offers a preview of what tomorrow's fighters will look like. Odd angles and other stealth features make it especially hard to detect on radar. Advanced flight controls allow maneuvers beyond the abilities of today's front-line fighters. Its new engines deliver supersonic cruise speeds without activating fuel-guzzling afterburners.



FLYING FACTORY

The Tupolev ANT-20 "Maxim Gorky" was a flying propaganda factory. Designed to spread Joseph Stalin's messages throughout the U.S.S.R., the eight-engine behemoth was equipped with a movie theater, a printing press, loudspeakers, and leaflet dispensers.

The presentation is lively and thoughtful. You can take a guided tour, or use the Index to browse around. You can even let the program take you on a random tour. There is a conventional, but fast search option if you are looking for something specific. I found the mix of text, narration, video and animation just right.

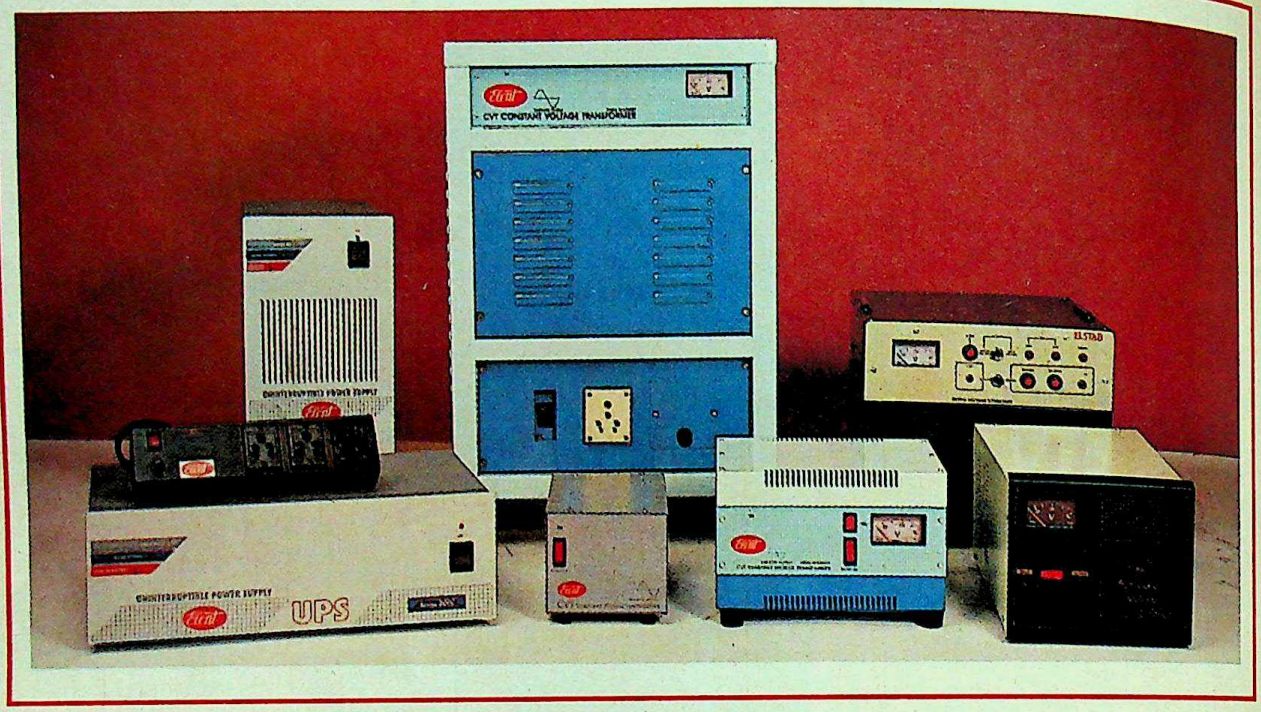
The World of Flight shows the trials and tribulations that go into pushing technology. You can see a video clip of an X-15 drop down from a B-52 pylon and zoom to near orbital heights while breaking all speed and altitude records... or one exploding on the ground during development tests. One fascinating clip shows a huge remote controlled airliner deliberately crash-landed to test fire-resistant fuel and the effect of such crashes on dummy passengers.

VK Thakur

CC-0. Mumukshu Bhawan Varanasi Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Preventive Maintenance



For all the Computers, Printers and other sensitive electronic equipment advertised, listed & mentioned in this issue...

Elent CVTs, UPS systems and Voltage Stabilizers - all that you need to power condition your equipment perfectly. At your nearest computer peripherals dealer. Insist on Elent because you've a right to get the best value for your money.

Elent

Electronic Enterprises

67 DSIDC Complex, Okhla Industrial Area, Phase-I, New Delhi 110020

Phones : 6818608, 6810515, Fax : 11-6818608, Grams : STABELENT

Authorized Dealers:

NORTH •Chandigarh: 702395, 704138 •Faridabad: 289367, 289902,218696 •Hissar:76930, 79416 •Karnal:252769 •Shimla: 78438,204020, 204026 •Palampur (H.P.):31059 •Jammu: 44773, 548854, 43547, 546805, 533154 •Srinagar:72528,52056 •Ambala:643122 •Amritsar: 555470, 548852 •Bhatinda:210701 •Jalandhar:227124,252975 •Ludhiana:31856,400765,475568,471402 •Patiala:71849 •Agra:52580,54760,51313 •Allahabad:609192 •Bareilly:78585, 473033, 478707, 470838 •Dehradun:28016 •Ghaziabad:717131, 714617,718612 •Gorakhpur:333598, 337[illegible] •Kanpur:319056,319916,210130,210993 •Moradabad:317769 •Muzaffarnagar:405123 •Saharanpur:3440 •Varanasi:57212,57254, 352717,352[illegible]

CENTRAL •Bhopal:555955,553030 •Gwalior:325965 •Indore:432902, 550649, 554080,494499,400455 •Jabalpur:20086, 26395 •Jhansi:444053, 442207 •Raipur:535817, 533882 •Ratlam:20088, 31088 •Sagar:22234 •Satna: 3625,2097 •Ajmer:32988 •Alwar:71330 •Bhilwara:26216 •Chittorgarh: 42468, 40672 •Jaipur:366862, 369818 •Jodhpur:27958 •Kota:20952 •Udaipur :413311

EAST •Guwahati: 31250, 540845 •Jamshedpur: 428381 •Patna: 230007 •Ranchi : 205795 •Imphal: 310783 •Shillong:223949, 222847, 220280, 221817 •Calcutta:298295, 297175 •Darjeeling:2040 •Siliguri:430146 •Berhampur (Orissa): 203187

WEST •Goa: 223712,228644 •Ahmedabad:6638575,460883 •Rajkot:42955 •Jalgaon: 28470 •Vadodara: 338039,341364, 557542 •Chandrapur: 32101, 32662 •Akola:40781, 28710 •Amravati:74105 •Bombay: 5554830, 5555218 •Nagpur: 526862 •Nasik:579510 •Pune: 334950, 346690 •Kopargaon: 23206, 22168 •Ulhasnagar: 550401, 551402

SOUTH •Belgaum:32482 •Madras: 8256893, 8277729, 458664, 453512, 512808, 5230195 •Madurai:31615, 35533 •Pondicherry:36446, 38[illegible] •Salem:448271 •Tirupur:28790, •Trichy: 48400 •Port Blair (Andaman):30873 •Hyderabad:216850 •Vijaywada:72217,77248 •Visakhapatnam:547131, 53555 •Bangalore: 5591843, 8396561,5530791,5531841 •Mangalore:458852 •Cochin:368461 •Kollam: 204317, 204115 •Coimbatore:231736,232087

For Dealers in Delhi, please contact our Office

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Professor Windows 95

CD ROM

Professor Windows 95 Deluxe CD. CD-ROM tutorial for Windows 95. Rs 1,438. RQS #E0219.

A cost-effective alternative to training sessions. Targeted primarily at novices. May seem a little slow and elementary to regular computer users.

A structured training course on Windows 95, ideal for beginners

Windows users worldwide are asking one question: should I upgrade to Windows 95 or not? Besides the significant hardware upgrades, another major deterrent is user anxiety over the learning curve. Enterprising software developers have cashed in on this and released lots of multimedia CBTs for Win 95.

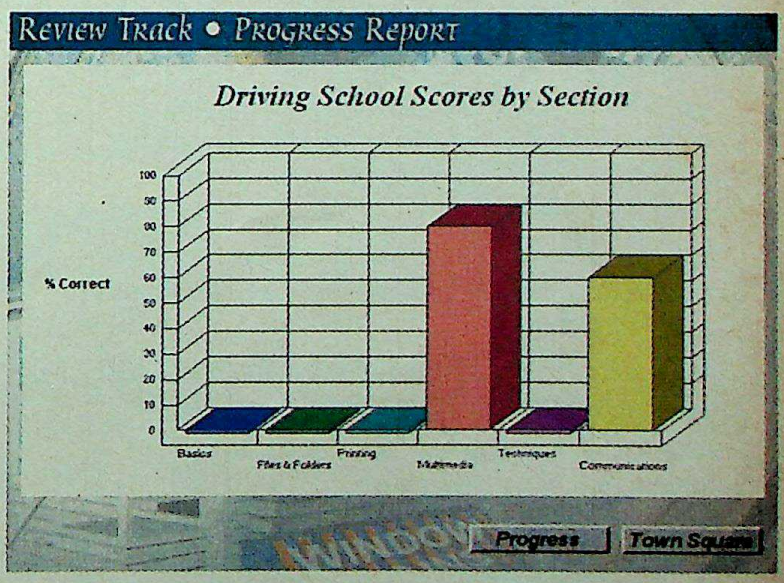
The Professor Windows 95 CD-ROM from US-based Individual Software is one such tutorial.

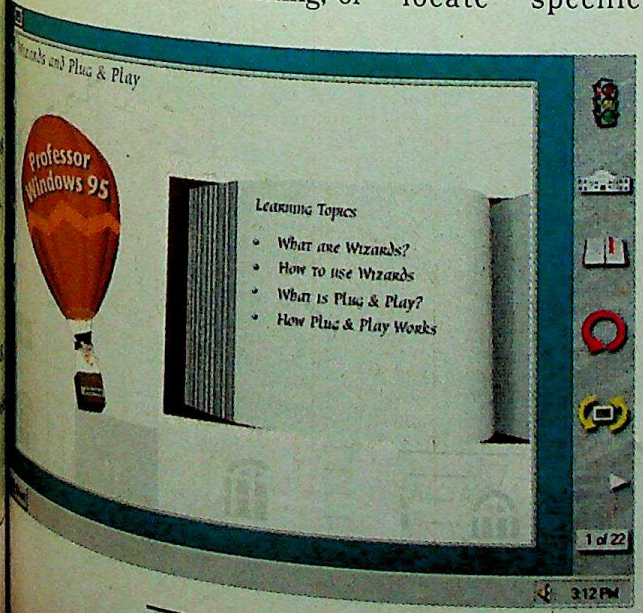
To run it, you can either install it to the hard disk or use Autoplay: a helpful Win95 feature that automatically installs the CD-ROM when you insert it in the drive.

The opening menu shows a town center. To begin the lessons, you click on the University—the main learning center. The main menu is categorized into topics such as Basics, Printing, or Multimedia. Each session is divided into lessons comprising a fixed number of slides. Back and forward arrows make it easy to browse through the contents. There's also a toolbar on the right with sound controls, bookmarks, glossary access and more. For advanced users, the Professor has a liberal dose of *Insider Tips*. You also come across several "Try-It" clips that let you sample the Win 95 shortcuts that you've learnt.

In addition to the core learning sessions, the Town Center offers an *Info Theater* that has a Q&A session on common Win 95 problems and the *ABC Books* module to let you locate specific Win95 topics. If you're already familiar with Win 95, you can test your skills at the *Driving School* before you start. The *Progress Clock Shop* gives a graphical representation of your scores—a neat feature.

The developers have tried hard to make Professor interactive and fun, but haven't been very successful. The *Info Theater* video clips displayed in a tiny window and were so grainy that they're more a hindrance than a help. The *Windows Pains* session lives up to its name. It's supposed to provide tips and anecdotes about Win95. But it's just audio clips on topics like "Too much color can be an overload" and "Are all those icons really that cute" that merely state the obvious. Not funny at all.





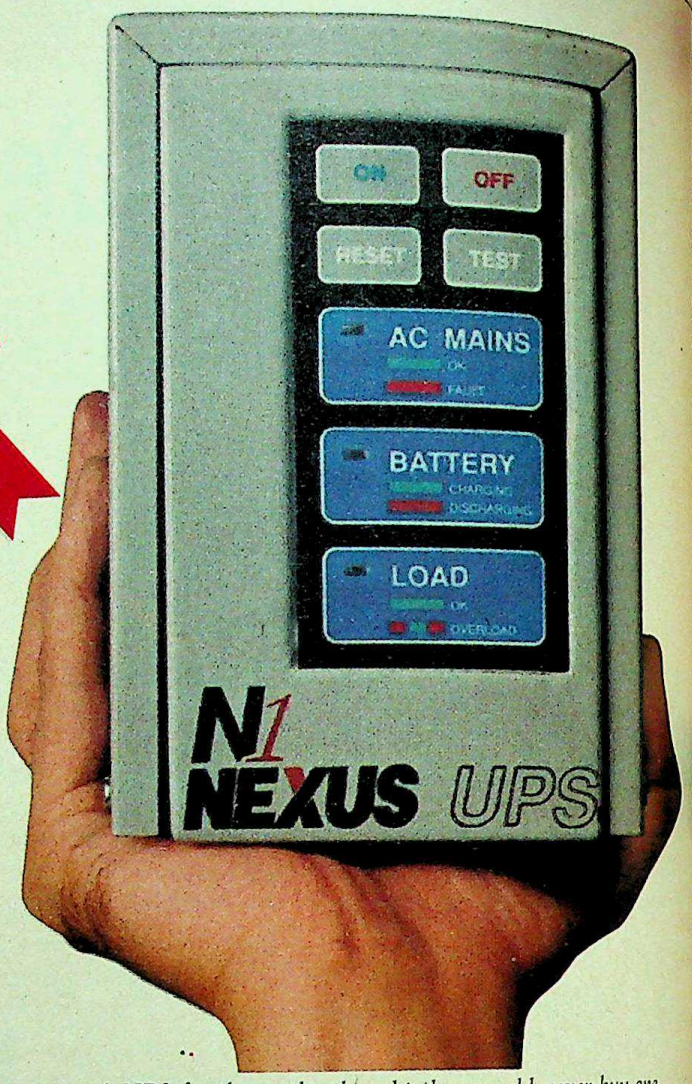
Developing multimedia content is challenging. This is especially true of instructional software where it's essential to strike a balance between serious course content and the usual bells-and-whistles associated with multimedia. Content-wise Professor is accurate and structured. However, a little more humor would make learning much more fun.

Asawari Ketkar

CC-0. Mumukshu Bhawan Varanasi Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

India's smallest UPS



A UPS for those who thought they would never buy one.

Nexus, India's smallest UPS has been recognised as the best quality new-generation UPS. Our customers have chosen Nexus as the best quality UPS in India. You could not expect anything less from Guard.

Nexus is a UPS System designed specifically for personal computers. Nexus provides comprehensive protection to your computer from power failures, voltage fluctuation, spikes, surges and line noise.

Designed with your desk in mind

Only 4 inches wide and 6 inches high Nexus, India's smallest UPS can sit right next to your PC without cluttering your workspace. Advanced technology has allowed us to shrink the UPS to this unbelievably compact size.

Easy to install

Unlike other UPS systems, there is no complicated installation procedure. Simply unpack Nexus and plug it in. All the controls and indicators are on a smart panel in the front.

Nexus provides greater reliability and more features at a lower cost. With Nexus every computer can afford full UPS protection.

Available in five models to support and safeguard all computers from a single PC to a large LAN fileserver.

What are you waiting for. Call, write or fax us for your very own Nexus today.

- Wide input range of 165-275 VAC.
- Unrivalled 92% efficiency.
- Reliable MOSFET inverter.
- Electronic overload protection — short-circuit proof.
- Phased loop locked to AC mains for synchronised transfers.
- Built in maintenance-free batteries.
- Built-in spike suppressor and voltage regulator.
- Feather-touch controls.
- Range of five models.

Complete range of On-line and Offline UPS Systems from 100VA to 5 KVA

Manufactured

GUARD

ELECTRONIC SYSTEMS PVT. LT

S-60 F.I.E.E., OKHLA INDUSTRIAL AREA, PHASE- II, NEW DELHI - 110 020, IN
TELEPHONE: 684 9337, 684 9338, 684 9341, FAX: 91-11-647

We are looking for dealers in unrepresented areas

DEALERS: AKOLA: TEL: 28272; **CHANDIGARH**: TEL: 537483, 608956; **DEHRADUN**: TEL: 29217; **GUWAHATI**: TEL: 40761; **GWALIOR**: TEL: 326708; **IMPHAL**: TEL: 220296, 220795; **JALANDHAR**: TEL: 251363; **JHANSI**: TEL: 440950; **KANPUR**: TEL: 542679, 543933; **LUDHIANA**: TEL: 663930, 406293; **MADRAS**: TEL: 8282946, 8521141; **MORADABAD**: TEL: 24875, 28832; **MUSSOORIE**: TEL: 2542; **MUZAFFARNAGAR**: TEL: 409448; **PATNA**: TEL: 262545, 262654; **RANCHI**: TEL: 203861, 203864; **SILIGURI**: TEL: 20814, 23660; **SIMLA**: TEL: 3156; **SOLAN**: TEL: 4130; **SURAT**: TEL: 607[illegible]; **TEZPUR**: TEL: 20913; **VARANASI**: TEL: 332889;

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

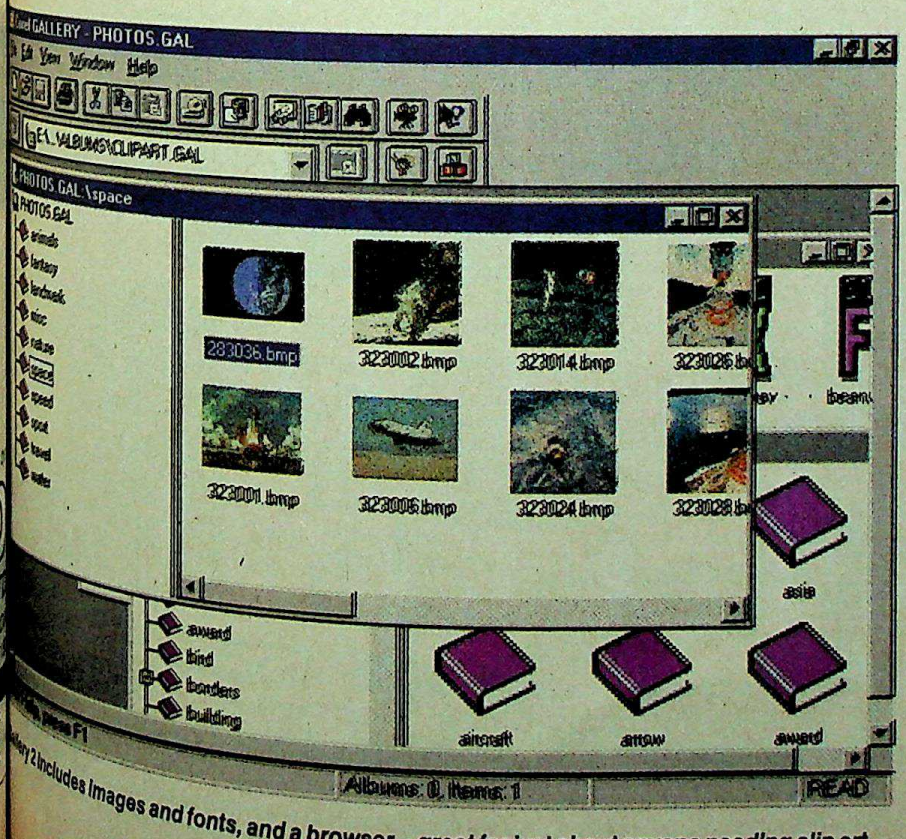
Digitized by Arya Samaj Foundation Chennai and eGangotri

Corel CD Office Companion

An innovative complement to a standard office suite

Have you ever wondered why office suites don't usually have the modules you so often need? Such as planners, business, legal and correspondence reference material, flowcharters, clip art? If you have, you should take a look at the Corel CD Office Companion.

This is a clever idea from Corel, and it's interesting that no one's thought of it before (as far as we know!). The Office Companion has most of the *other* things you wanted in an office suite: a flowcharting module with tutorials catering to a wide range of users; a planning module which lets you plan your activities into the next century; a correspondence library which has letter formats for everything imaginable—these require only a little information from you before they can be posted; a reference section with a dictionary and business and sports almanacs, and a general-interest encyclopedia, which you would find very useful at work; and a clip art, photo and fonts gallery which you can use to smarten up your presentations, Windows desktop and documents. You can choose to set up Corel CD Office Companion to run off your hard disk, or straight from the CD-ROM.



Gallery 2 includes images and fonts, and a browser—great for just about anyone needing clip art

CorelFlow is Corel's full-fledged flowcharting diagrammer package. It uses a floating-palette "smart libraries" of common flowchart shapes. The Smart Libraries help you with flowcharting, schematic diagrams and design jobs, from data flow diagrams, LAN, furniture, electrical and interior diagrams to redesigning your bathroom. This module will be popular with a wide range of users, from systems and network designers to electricians, interior designers and home remodellers.

But the really neat part comes when you choose Tutorial from the Help menu.

THE SPECS

PRODUCT: Corel CD Office Companion. Companion software to an office suite, for corporate and SOHO users.

REQUIRES: 386 with 4 MB (486/8 MB recommended), Windows 3.1 or 95, CD-ROM drive. Sound card and modem recommended.

FEATURES: Modules for flowcharting, correspondence templates, business reference, Windows performance testing and tuning, a planner and personal information manager, a clipart and fonts gallery, faxing, and a Mosaic-based Internet browser.

PRICE: Rs 6,850

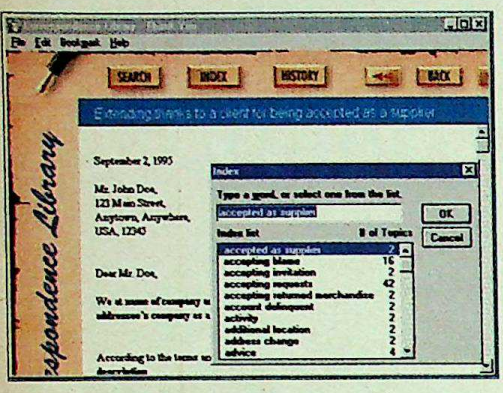
SUMMARY: A useful complement to common Windows apps or suites such as Office or SmartSuite. Corel has brought together its very popular clip art Gallery and flowcharter packages, and added a planner, business reference, Web browser and other modules, into this single CD-ROM. Good value for the SOHO or corporate user.

MANUFACTURER: Corel Corp, Canada. VENDORS: Multisoft, Hyderabad; SVAM Software, Delhi; Wipro Ltd, Bangalore.

Reader Query Service #E0217

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

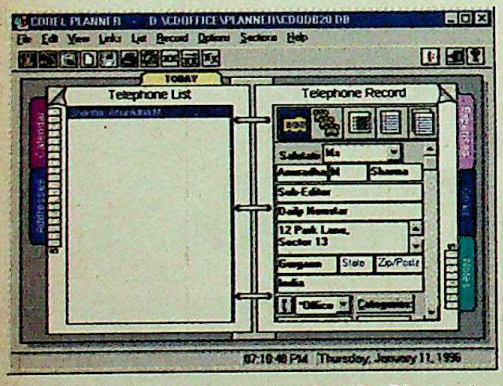
Digitized by Arya Samaj Foundation Chennai and eGangotri



The huge collection of letter templates could come in pretty useful, though you'd get a bit tired of letters addressed to John Doe...

The tutorial itself is useful enough, but more significant is what it's made in—it's simply a CorelFlow chart! The various flowchart elements are active, like in a hypertext document, and take you to other areas or other files when you click on them. So with a few clicks, you can put together .. an interactive flowchart!

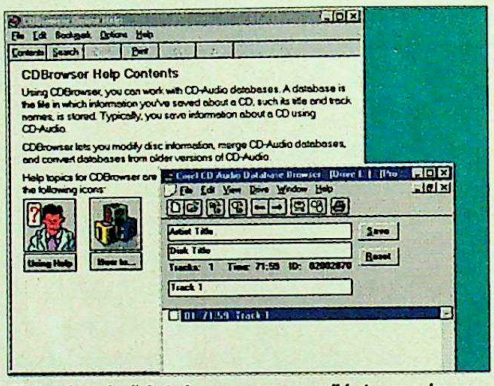
CorelPlanner is a conventional but fairly elegant and well-organized personal information manager and planner. It lets you plan your activities (well into the next century) and also calculate your expenses, note down



It isn't quite Lotus Organizer, but the Planner's a useful component, and even has an Expenses tracker

important addresses and phone numbers, write notes to yourself and lay down your own goals. You can note daily details down in a form view in your diary, and you could then view your daily program for a week in List View, to help track activities completed, etc. The planner features aren't as elegant as Lotus Organizer's, and the addressbook's limited—you can import addresses from external databases—but there are some useful additions such as expense tracking. We wouldn't pit it against Organizer, but if you had this CD-ROM, you could put Planner to good use.

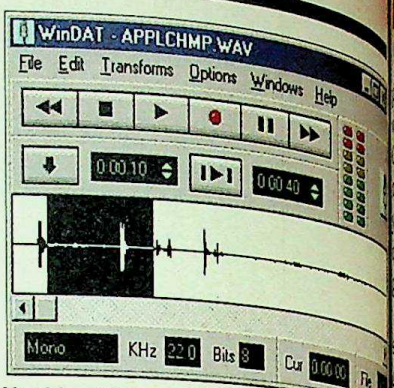
The **Correspondence Library** has hundreds of letter formats, which can be useful if you're either a lazy typist, or busy, or both. All you have to do is copy the relevant letter into a word-processor document, fill in the address and other details, sign, and the letter is ready to go. An improvement over dictating letters to your secretary, or typing them in yourself, ab-initio. The letters cover a wide variety of subjects, business and personal, from accepting suppliers to inviting people to an engagement party.



This simple "database manager" lets you keep track of your audio CDs

You could, of course, modify the letter to suit your needs, to whatever extent you want.

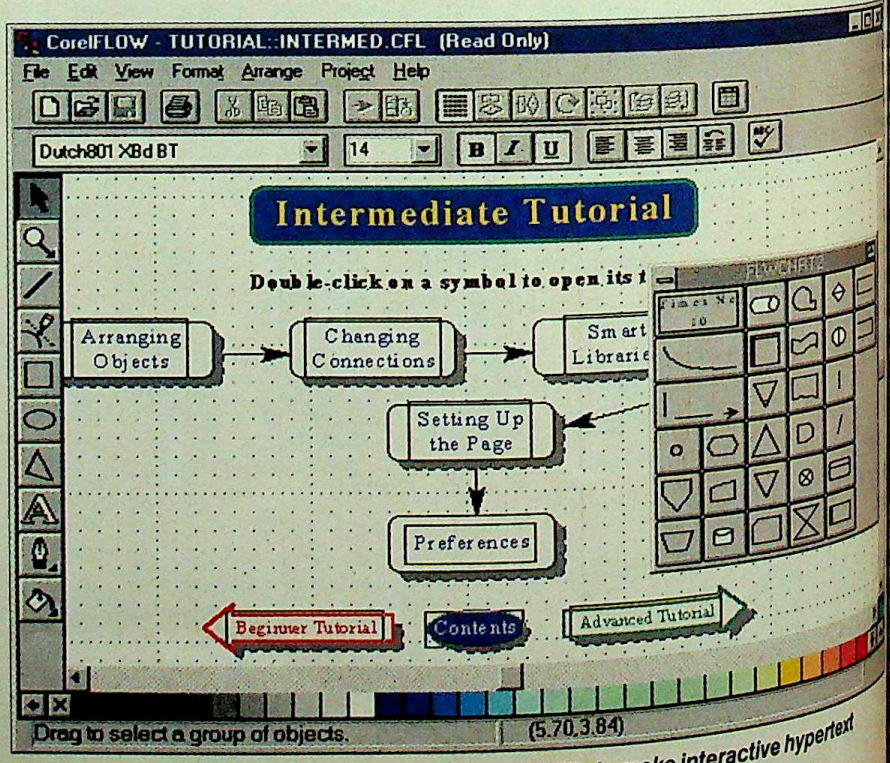
BookCase has five reference works: a dictionary, a book of quotations, a



You'd get little applets like the WinDAT audio editor in other packages too, but they're useful to have all together on one CD-ROM

general-purpose encyclopedia, a business and sports almanacs. Th business almanac is the most useful, it contains information on subject like hiring and firing of employee what questions would be considere legally actionable if asked in a interview, etc. These are issues which executives have to deal with every day so a business almanac would be a godsend, even though this one is expectedly US-oriented. You can cop or print sections of text, use th dictionary to augment the resources your word processor's spell-checker, o use the quotations to enhance you memos and letters.

Gallery 2 is a Corel classic Thousands of clip-art, photographs fonts, sounds. A full and popula



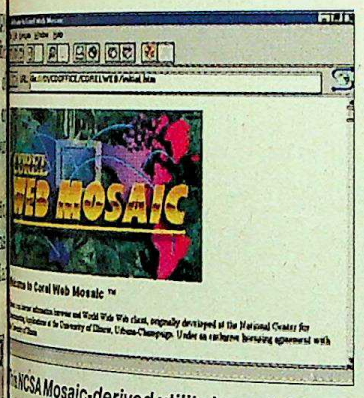
Flow is a dedicated flowcharter with the additional ability to make interactive hypertext "tutorial flowcharts"

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

package in its own right. You get the whole package with the Office companion, except for the superb color manual with all the clipart printed, that you'd get if you bought Gallery 2 (that manual is strongly recommended for professional use).

The images and other objects are sorted according to theme; fonts are grouped according to where these are frequently used, whether in advertising, books, brochures, magazines, newspapers or newsletters. The clip art library is vast, and covers images drawn from across continents and from several fields, such as music, medicine, electronics and computers. The format is .CMX (Corel's "presentation exchange" vector format). You can use the Gallery browser to select and export specific images to a number of formats, though unfortunately there's no .EPS. However, you import the .CMX files straight into CorelDRAW 6, or into versions 4 or 5 with the import filter installed.

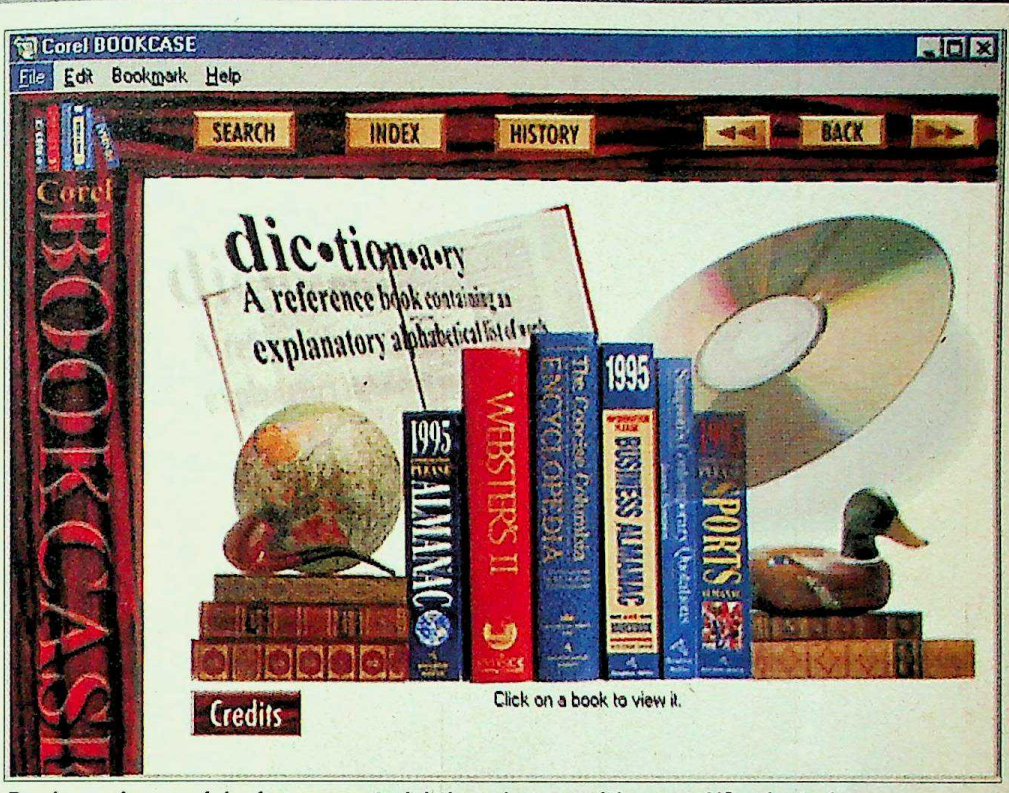


The NCSA Mosaic-derived utility is useful both for Internet browsing and for viewing offline the many HTML documents you should be expecting across in 1996

Some of the "modules" are trivial—such as the **Wallpaper Flipper**—but not. Of course, pro Windows users know that those fancy images they choose slow down desktop redraws, gobble up resources, and quickly get tiresome. But then yet another wallpaper change is just a click away..

WinTune is an unusual program for an office suite companion. But a useful one.

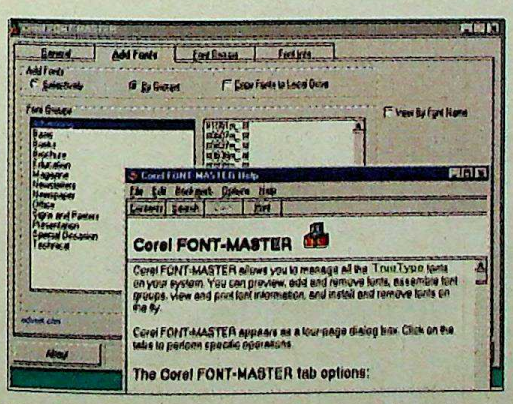
As you'd have guessed, it lets you test your CPU, RAM, video and disk subsystems to give you standard benchmark numbers (Dhrystone and Whetstone) to tell you how well Windows apps are going to work. Useful when you're tuning up your system, or checking if that new high-res Madonna wallpaper is actually slowing things down.



Bookcase has useful reference material, though some of them are US-oriented

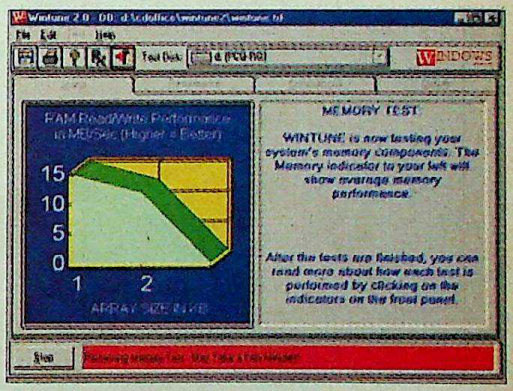
WinTune is from *Windows Magazine*, and a set of benchmarks to test basic system components. A **Tip Advisor** engine compares the results from your system, compares it with predefined norms, and enters the results and recommendations into special help files.

The communications-related modules are a nice touch: there's **CorelFAX** for sending faxes through your fax-modem, and **Corel Web Mosaic**, a graphical Internet browser. Though not as capable as NetScape, it gives you quick graphical access to the Internet, and is a useful part of this suite. For some reason, it doesn't install as part of the first installer round—instead you get a "Install Web Mosaic" option in your start menu. Click it, and it smoothly installs itself.



FontMaster manages your TrueType fonts in groups, such as by their look-and-feel

The Corel CD Office Companion is just that: a useful companion for your standard office suite. And a clever idea from Corel, to help disprove the myth that all generic applications packages that users could need are already covered out there in the market—mainly by Microsoft.



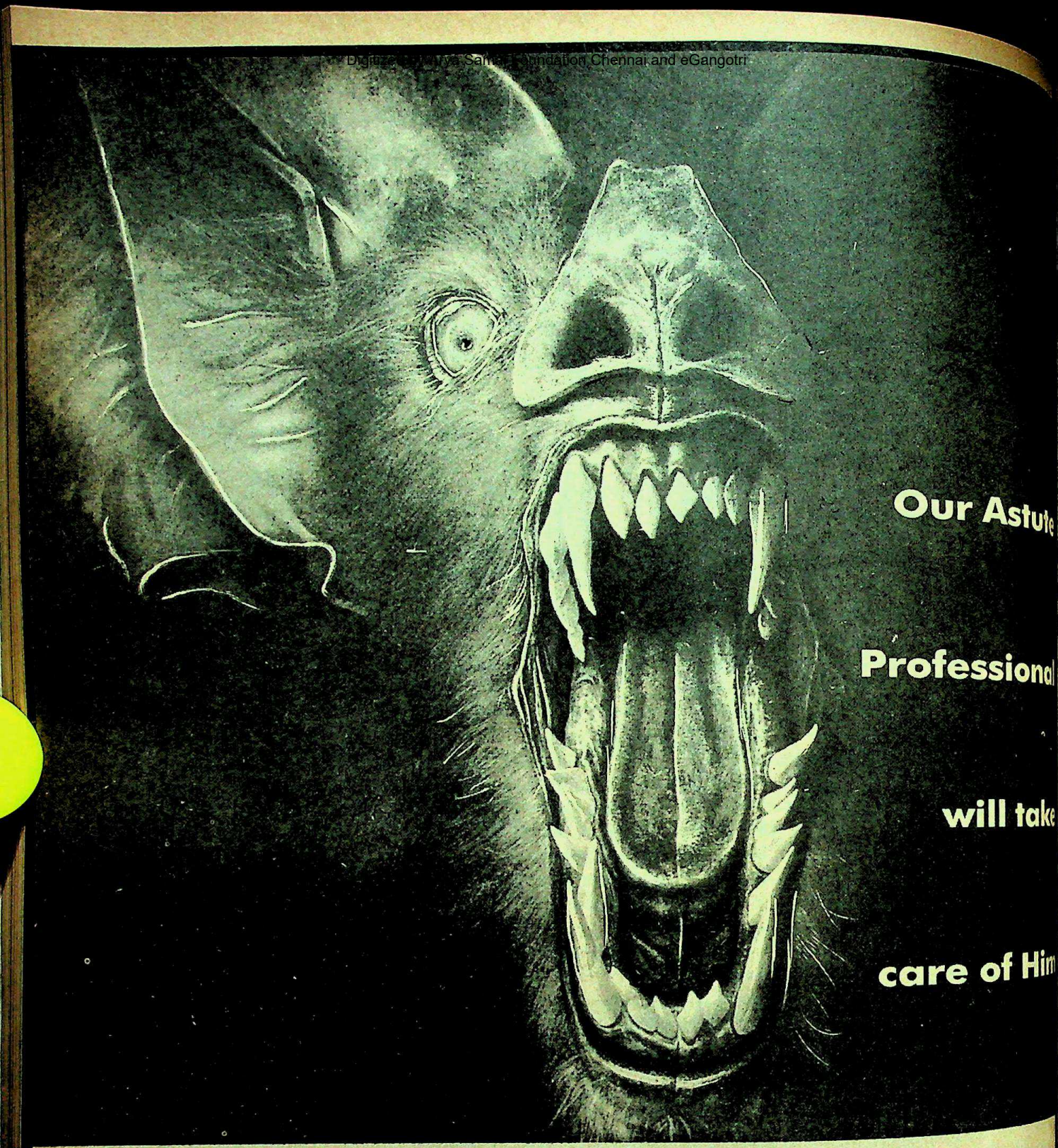
A Windows performance benchmark in an office suite? A nice idea

Sensibly, Corel has steered clear of the mainstream apps that it cannot compete in, such as word processors or spreadsheets, and brought out this elegant "companion" instead. The full apps in it, CorelFlow and Gallery 2, are themselves well worth the price. The other applets are not outstanding but together make an innovative and useful package. Very good value at this price, especially for SOHO users.

DK and PKR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Protection against over 7500 deadly viruses.

Some discreet characteristics of F-PROT PROFESSIONAL

- *Recognises more than 7500 viruses.*
- *Works on Dos, Windows, Win95, OS/2, Network.*
- *Works on 20 different Networks.*
- *Performs Heuristic scanning.*
- *Provides Check-Summer facility.*
- *On-Access Scanning ability.*
- *6 timely annual updates at your desktop.*

F-PROT PROFESSIONAL
ANTI - VIRUS SOFTWARE
Brought to you by
KNOXWARE

KNOXWARE : 506, HAL II Stage, Bangalore - 8. Ph.: 528 8490, Fax: 227 8752 E-Mail: info.knox@axcess.net.in
BRANCHES: Calcutta - Ph.: 276528, Hyderabad - Ph.: 635069 ◆ FRANCHISEE FOR WEST: Crystal Enterprises, Bombay - Ph.: 4137571
DISTRIBUTORS & DEALERS: ◆ Bombay - Essen Vision Software Consultants, Ph.: 2656728 ◆ Expunge Systems, New Delhi - Ph.: 6482673 ◆ Microtech, Ph.: 4920356 (for IBM Systems) ◆ Online Technologies, Pune, Ph.: 631157 ◆ Ahmedabad - Thirdwave Systems (P) Ltd., Ph.: 467974 ◆ Microlystic, Ph.: 7 Growth Centre, Ph.: 409200 ◆ Bangalore - Frontier Business Systems, Ph.: 260729 ◆ Infomart, Ph.: 6637770 ◆ Nodes India, Ph.: 563861 ◆ Baroda - Deep Ph.: 341613 u Micro World, Ph.: 328256 ◆ Zero - One Microsystems, Ph.: 328521 ◆ Calcutta - Pixel Infotech, Ph.: 596120 ◆ Jaipur - Bell Infotech Systems, Ph. ◆ Jamshedpur -Jupiter Systems Software, Ph. 427471 ◆ Madras - Bitslan Systems, Ph.: 8555521 ◆ Pune - Agtech Systems, Ph.: 475044 ◆ Soft Aid (P) Ltd. Ph.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BUILD YOUR OWN HOME PAGE

ow to construct an HTML ocument... in the inimitable ummies style

Building your Web page is exciting if you keep this thought firmly in mind: You can change anything at any time. Good Web pages are always evolving. Nothing is cast in concrete—change is just a keystroke away.

Now that the pressure is off, you can start building your own simple but complete home page. Think of it as a prototype for future pages. Later you can add all sorts of bells and whistles to change it into any kind of page you want, be it for a business, an academic institution, or a government agency.

The layout, or the way the page looks to the user, creates the first impression of your whole Web site. If that first impression isn't pleasing, it may also be the last time the user visits your page. Not to worry, though: Your home page can be pleasing to the eye if you follow the "KISS" (Keep It Simple, Stupid) approach.

The Web itself is a confusing concept for many users. Everything you do to keep your page intuitively obvious will make your viewers happy and keep them coming back for more.

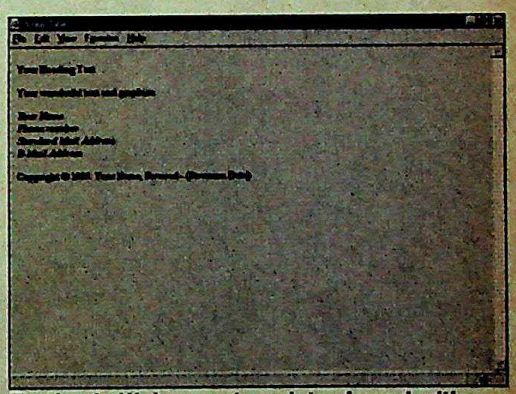
The Template's the Thing!

All well constructed Web pages contain the following four sections: Title, Heading, Body, and Footer.

If you look at a number of Web pages, you will see that most of them contain these sections in one form of another. You have also probably noticed, with some amount of frustration, that the pages that don't contain all of these elements either aren't pleasing to your eye or don't "work". That is, they aren't intuitive in their presentation and you can't easily find what you're looking for. We're not going to let that happen to your pages because you are going to use the following template for each HTML file:

```
<HTML>
<HEAD><TITLE>Your Title</TITLE>
</HEAD>
<BODY>
Your Heading Text
<P>
Your wonderful text and
graphics.
<P>
<ADDRESS>
Your Name<BR>
Phone number<BR>
Standard Mail Address<BR>
E-Mail Address
</ADDRESS>
<P>
Copyright &copy; 1995. Your
Name, Revised - (Revision Data)
</BODY>
</HTML>
```

It's really that simple to get started on the correct path. This template actually works. The screenshot below shows what it looks like when viewed with Internet Explorer.



The basic Web page template viewed with Internet Explorer.

As you can see, your home page is currently plain and simple. That's not going to have folks flocking to see it, is it? You need to add your wonderful text and graphics to it. Since only a small but growing number of Internet surfers use GUI browsers, it's advisable to put your energy into providing high-quality content and important links.

Page Layout: Top to Bottom

Now that you have a basic template, you can start changing it. To begin the fun, your first home page shouldn't occupy more than a single screen. This makes it much easier to edit and test. You can get more than enough information on a single screen, while

CC-0. Mumukshu Bhawan Varanasi Collection. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

helping your audience avoid unnecessary scrolling.

The amount of information displayed in a single screen will vary depending upon the browser and monitor resolution. While you may not want to design for the lowest common denominator of browser and monitor, understand that if you assume the user will see your page the same as it looks in your browser, you are making a very bad assumption. Although there is no easy answer to this problem, testing your pages on a relatively low resolution monitor with several different browsers will help you to see your pages through your reader's eyes.

You will find it helpful to first sketch your design ideas on paper or use a drawing program to create a model of its layout and components. This will show the spatial relationships on the page and the amounts and locations of the ever-important breathing room that page designers call "white space". While it is possible to have too much white space on a page, most designers err in the other direction, and wind up with far too little.

Titles

The title of your page is important because it is used by many Web spiders and crawlers—the software robots that relentlessly cruise the Web, looking for information—to create index records for your pages in their databases. The title is also used for the name field in the bookmark or hot list sections of most browsers, meaning that they'll use your title to figure out what's on your page.

One way to arrive at a truly descriptive title is to type a list of the key words that best describe your page. Then, use them in a sentence. Next, delete the conjunctions, adverbs, and unnecessary adjectives. With a little rearranging, what's left should be a pretty good title.

Headings

Headings are the first text the viewer scans. If the headings aren't attractive and instantly informative, the viewer will be off to another page with a single click. If they can hook your audience, and make them want to learn more, then you've written good headings.

If the situation permits, headings may even be humorous. The best approach is to use your imagination with your audience in mind.

It's a good idea to keep the size of like headings consistent throughout your pages to help the viewer understand the level of importance of the information.

Most well-constructed Web pages use no more than three levels of headings, even for very long documents.

Your home page will probably be more like the screenshot below at this stage.

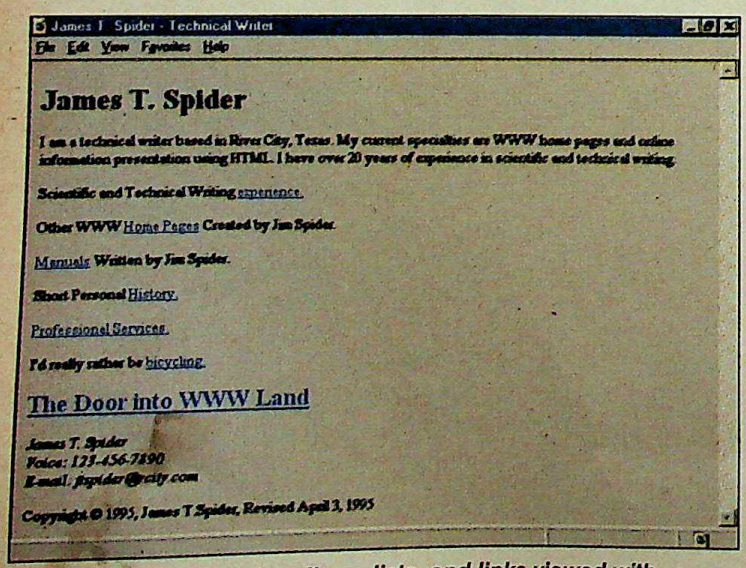
It has one large heading line at the top and a medium-sized heading line toward the bottom. All graphics have been removed from this page to show you that you can still achieve a pleasing layout by using only a few well-worded headings and a few text links on an entire Web page.

The Web page shown alongside was created from the following HTML file.

The larger type font of the header line was produced by the <H1> ... </H1> tags, the largest heading. The heading "The Door Into WWW Land" is tagged with <H2> ... <H2>, the second level heading size. The standard heading tags <H1> through <H4> should be used for paragraph headings, hyperlinks, and other places where the text is to be on a line by itself with white space above and below.

```
<HTML>
<HEAD>
<TITLE>James T. Spider -
Technical Writer</TITLE>
</HEAD>
<BODY>
<H1> James T. Spider </H1>
<P>
I am a technical writer based
in River City, Texas. My
current specialties are WWW
home pages and online
information presentation using
HTML. I have over 20 years of
experience in scientific and
technical writing.
<P>
Scientific and Technical
writing <A HREF="writ-
gen.html"> experience.</A>
<P>
Other WWW <A
HREF="hps.html">Home Pages</A>
Created by Jim Spider.
<P>
<A
HREF="manuals.html">Manuals</A>
Written by Jim Spider.
<P>
Short Personal <A
HREF="history.html">History.</
A>
<P>
<A HREF="proservs.html">
Professional Services.</A>
<P>
I'd really rather be <A
HREF="history.html#Bicycle">bicycling.</
A>
<A HREF="amaze.html"><H2>The
Door into WWW Land</H2></A>
<ADDRESS>James T. Spider<BR>
Voice: 123-456-7890<BR>
E-mail: jtspider@rcity.com
</ADDRESS>
<P>
Copyright &copy: 1995, James
T.Spider, Revised April 3, 19
</BODY>
</HTML>
```

Two schools of thought exist regarding the use of heading sizes. The information school says heading tags should be used in increments or decrements of one and always start with <H1>. This approach definitely provides for an ordered, standardized structure to your content. It also makes it easy for Web crawlers



HTML document with headings, lists, and links viewed with Internet Explorer.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

OULD IT HAVE
ETHING TO DO
H OUR LEADING
TECHNOLOGIST
STATUS?

As a part of a Rs. 9 billion enterprise, quality has always been an integral part of Samtel, India's largest integrated CRT technologist.

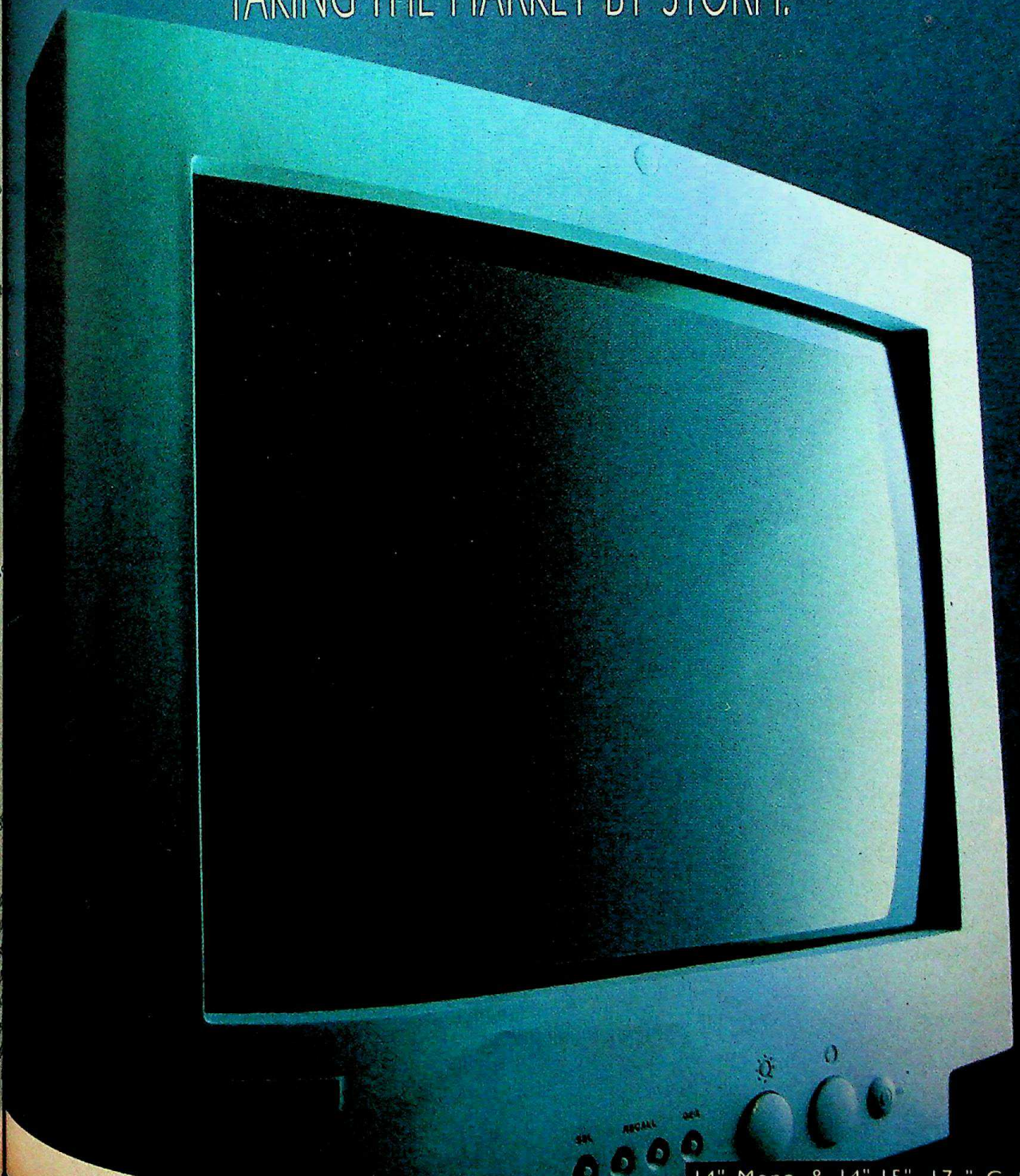
Manufactured at the largest state-of-the-art plant, with UL CSA approved components for long lasting performance, quality here too plays an important role.

Complemented further by features like auto sizing, flicker free, high resolution, auto power saving, anti glare screen, ergonomic design, and a wide network of service centres, our monitors offer only what is expected of us.

SAMTEL
MONITORS

A LOT MORE, THAN JUST ANOTHER MONITOR

FIGURES SHOW THAT OUR MONITORS ARE TAKING THE MARKET BY STORM.



14" Mono, & 14", 15", 17 " Colour Monitors

AHMEDABAD : Ambimat Associates Tel. : 550455, 550456 Fax : 5479494 **BARODA** : Pidi Byte Tel. : 334303 Fax : 335951. **BHOPAL** : Mid Land Corp. Tel. : 55527 **BOMBAY** : Antech Tel. : 4963176 Fax : 4950429. **CALCUTTA** : Pecondata Services Pvt. Ltd. Tel. : 2484809 Fax : 2486444. **INDORE** : Magnum Computers. Tel. : 536003/432504. **JAIPUR** : Jumbo Electronics. Tel. : 315307. The Superiors. Tel. : 563562. **KANPUR** : Aryan Computers Tel. : 214039 Fax : 294071 Techno Serva. Tel. : 255884. **LUCKNOW** : Computer Sales Agency Tel. : 234195/ 270010. **BANGALORE** : Ascii Computers. Tel. : 565144.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

pick out the headings for their indexes.

The design school screams, "BORING!" when the incremental approach is mentioned. Use heading to draw attention to content. Putting an <H1> next to an <H3> or an <H4> creates more visual interest. As with most HTML design decisions, the choice is yours.

Experiment with heading tags to see what you think looks best. Remember, too much emphasized text diminishes the overall effect. Use it sparingly—emphasis works better when it remains exceptional. If you're a fan of fairy tales, it's kind of like crying "Wolf!"

The Bottom Line On Bodies

The basic rules for creating great Web page bodies are:

- Keep the layout consistent between pages to provide continuity for the reader.
- Provide plenty of white space and headings for easy visual scanning.
- Write short paragraphs and use them sparingly.
- Make liberal use of hypertext links to additional pages, rather than making your audience scroll, scroll.
- Vary the placement of the hyperlink words to provide more visual contrast to the page.
- Choose meaningful hyperlink words, NOT "click here".

Building Better Document Bodies

The body of your Web document lies at the heart of your page, between the header and the footer. Body content depends on the type and amount of information you want to put online, and what kind of audience(s) you're trying to reach.

Personal Web pages are generally quite different from business, academic, and government ones in the content and form of their bodies, although the layout for each type may be strikingly similar. The bodies of personal home pages (perhaps more accurately called "Welcome" pages, but who are we to quibble) tend to contain a brief textual introduction followed by numerous links to local pages and to pages at other Web sites. The primary differences in the layout and content of well-designed Web page bodies occur when the information they contain also differs significantly.

The bodies of most personal Web pages contain text for, or pointers to, the following elements:

- Resume—mostly dense text with a picture.
- Personal History—mostly plain text.
- Favorite Sports or Hobbies—text with an occasional picture and links to sports or hobby sites.
- Favorite Web Sites—lists of links to Web sites.

Title
Heading
Text and/or Main Graphic here.

Body
Explanation of page purpose.
Information and primary links.
Most important graphics, but only a couple of large or 3-4 small ones.
Secondary links.
Less important graphics.

Footer
Author, Date revised, Links to Home Page if this isn't it, or another page, & copyright notice if you desire.

The body of a commercial artist's W pages might contain:

- Pictures, Pictures, Pictures—Usually small "thumbnail" size pictures that are links to the much larger versions.
- A page containing a resume, or list of shows and exhibits, awards, and other professional activities.
- Links to online samples of their work on other pages around the Net.

The bodies of many government agency pages contain large amounts of boring text (No! I don't believe it...) that should be revised into hypertext pages using HTML. In the meantime, many are friendly enough to provide a brief description of the text and an FTP hyperlink so you can easily download these monster files.

So, how much text is enough but not too much in the body of a Web page? The answer lies in the minds of your viewers. May we suggest, however, that large amounts of scrolling will almost always incline them to think "Enough already!"

Controlling Long Pages

Pages composed of over five screens of text or screens full of URL lists should be split into multiple pages. If you insist on serving long pages to your users, you can greatly increase their readability by linking a table of contents (TOC) to the

The 5th Wave By Rich Tennant

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

UNDERSTAND
LET'S LOOK
WHAT WE DID
ESTERDAY.

Digitized by Arya Samaj Foundation Chennai and eGangotri

Our's has been a story of mastering one field by continuously upgrading and improving within it. A Rs. 9 billion enter-prise, we are today India's largest integrated CRT technologist.

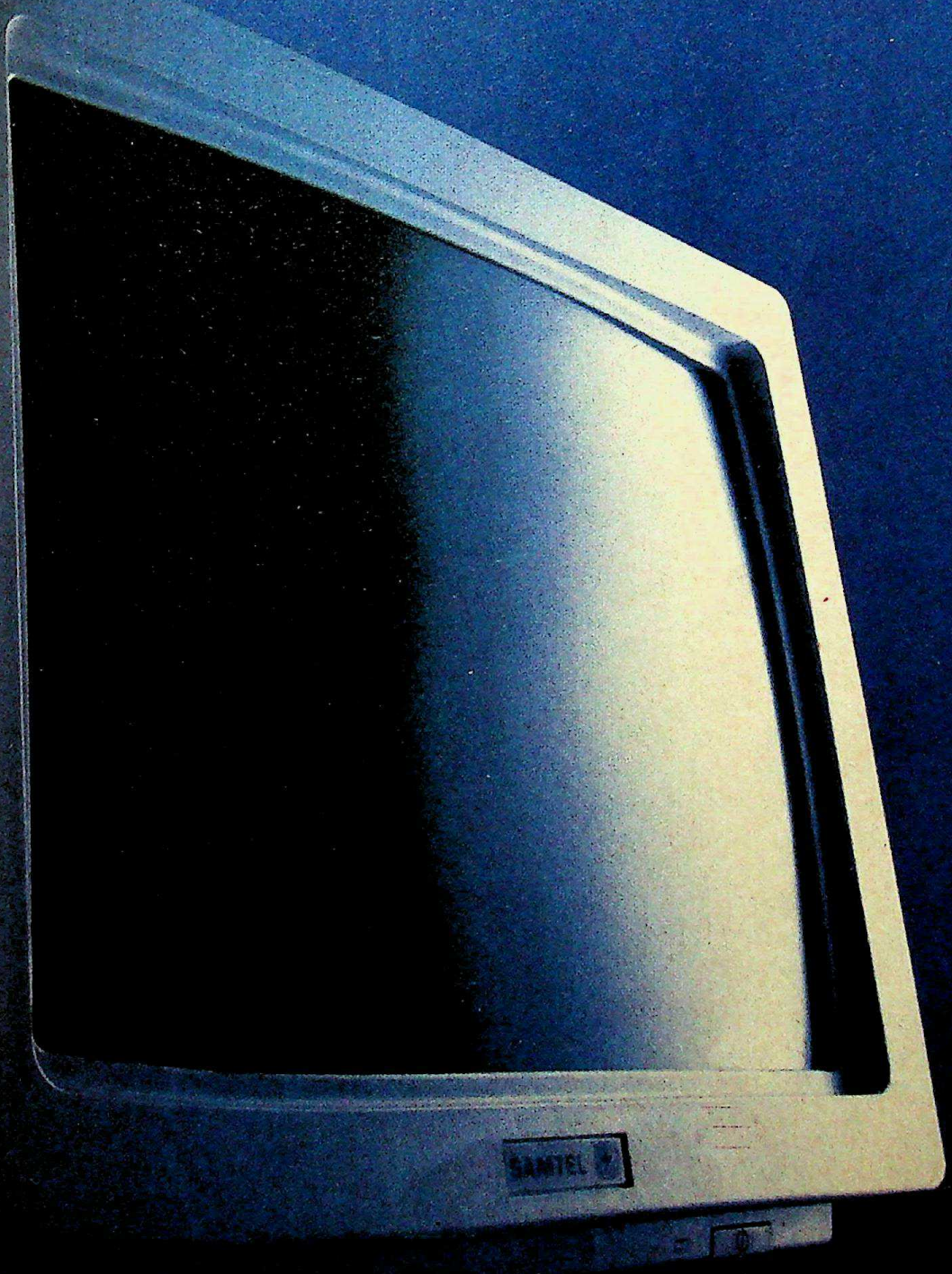
And our monitors are a result of the same vertical integration.

Complemented by high quality, the largest state-of-the-art producing capacity - 20,000 per month, and features like autosizing, flicker-free, high resolution, auto power saving, anti-glare screens, it's understandable why companies like Wipro and Digital are opting for our monitors.

SAMTEL
MONITORS

A LOT MORE, THAN JUST ANOTHER MONITOR

TODAY, WIPRO, DIGITAL, PCS, ZENITH ARE OPTING FOR OUR MONITORS.



14" Mono & 14", 15", 17" Colour Monitors.

MADRAS : Microworld. Tel. : 8250987/8264004. Fax : 456595. **NAGPUR** : Arkay Computers. Tel. : 540265. Mayur Computers. Spectron Computers. Tel. : 722927/723389. **NEW DELHI** : Champion Computers Pvt. Ltd. Tel. : 8-712839/716316. **PATNA** : Graphic Merchant. Tel. : 662978. **PUNE** : Atson. Tel. : 637927. Fax : 637906. Fortune Computers. Tel. : 442530. Fax : 424164. **RANCHI** : Moon Computers. Tel. : 206269. Fax : 317240. **SECUNDERABAD** : Pacific Micro Systems. Tel. : 800470/7806099. Fax : 800470. **VARANASI** : Jwala Distributors. Tel. : 356319. Fax : 353279.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

section and providing a return link back to the top. This has an effect similar to splitting the page into multiple page files but still allows the user to capture the entire page as a single file. It also makes it easier for you to edit the HTML file.

Hooking Up: Linking Your Pages

Hypermedia links within the body of your pages bring out the power of the Web. To many users, surfing the Web is the ultimate video game. Following links just to see where they go can be interesting and informative.

As a Web page designer and Web weaver, you obviously want your users to link your pages well enough to tell others, who will tell others, and so on. Therefore, it's up to you to provide good links both within your own Web pages and to other Internet resources.

Web Page Links

Links come in two flavors, relative or full. A relative link, such as this one from the James T. Spider HTML document, `<A HREF="manuals.html">Manuals</A>` can only be used within your own Web since the URL referenced is relative to the directory of the page from which it is called. In this case, it is actually a file (manuals.html) in the same directory as the current HTML file (the current URL). It is relative to the server's document root plus the path in the file system where the current URL is stored.

When you create links to HTML documents, always use the ".html" extension. If the page resides on a DOS server, the fourth letter "L" will be ignored. Make sure you change the extensions of the .htm files you upload from a DOS or Windows computer to a UNIX server to .html. This is for the sake of the UNIX server which will require all four characters in the file extension since you used the .html extension in you Web document link.

A bit of advice regarding overuse of links. Use them only when they convey needed information and then use each specific link only once per page. Users can get very irritable when you make a link out of each occurrence of a commonly used word or phrase on a single page.

All of the links you see in the screenshot are relative links. This is the simplest from of a relative reference, and is the easiest kind for you to use in you home page and its related page-mates.

Links to the world outside of your Web are physical. A physical or full link, such as:

```
<A HREF="http: //WWW.nps.gov/
nbs/"> National Biological
Service</A>
```

gives the entire http URL address. You may use physical URLs for all your links without any noticeable difference in speed even on your local server. However, relative links are much shorter to type in your HTML file, and may improve your overall productivity.

When including physical URLs in links, it's recommended that you link the resource first, and capture the URL using your browser. Then, you can paste this URL right into your HTML file with little or no change of introducing an error.

Whether it is better to use relative or physical links is a debate for the newsgroups or your local UNIX user's group. You are primarily concerned with the content of the links within your Web, their relationships to each other, and their contribution to your overall Web.

Choose Your Hyperlinks With Care

Keep the hyperlink text short and the graphics small. And never, never, never use the phrase "click here" as link text. Why, you ask? Because some users don't have mice or pointing devices. More important, it may appear to readers that you didn't care enough to write an appropriate sentence with a meaningful word or phrase for the link.

In our sample Home Page, the word "Experience" might be unambiguous enough to stand alone, but "history" and "Manuals" are not. Adding a few carefully chosen modifiers to your hyperlink text will usually clear up any ambiguities.

The entire heading, "The Door Into WWW Land" is included in the link because the graphics of a door has been removed. Remember, users are in a hurry to scan your page and quickly pick out the important links by their unique wording or graphics. Make it easy for them by using meaningful hyperlinks.

Extracted from HTML for Dummies, IDG Books/Pustak Mahal, Reader Query Service #

Getting Hyper

HTML for Dummies by Ed Tittel & Steve James. IDG Books / Pustak Mahal. 442 pages with floppy. Rs 225

The real secret behind the HyperText Markup Language (HTML) is the lack of one. Or so HTML for Dummies informs us. All the same, the book reveals these non-secrets in plain English and is truly comprehensive. Beginning with a history of the World Wide Web and how it works, it gradually starts 'Getting Hyper' with links, jumping around in and across documents, and also gives HTML basics. Tags, HTML elements and categories, syntax and entities takes us into building Web pages—and controlling them.

Beyond the basics, this Bible ventures into graphics, and sound, CGI, using forms and maps, and binding them together to build a commercial grade document, using HTML beyond its standard definition. There are sections on testing and debugging your Web pages. HTML tools and working across different platforms is also dealt with. There's even information on Internet Service Providers, and a complete glossary of terms.

The authors of this book certainly don't underestimate the power of layout and design. The style and presentation tips found here would do as well for plain old text, let alone hypertext.

The accompanying disk contains a guide to how the book is organized: mostly a detailed version of Contents, plus templates and sample Web pages for you to go online with.

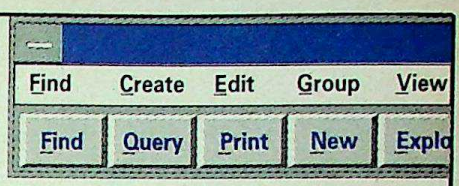
HTML for Dummies is organized well. Better as a reference than as a tutorial.

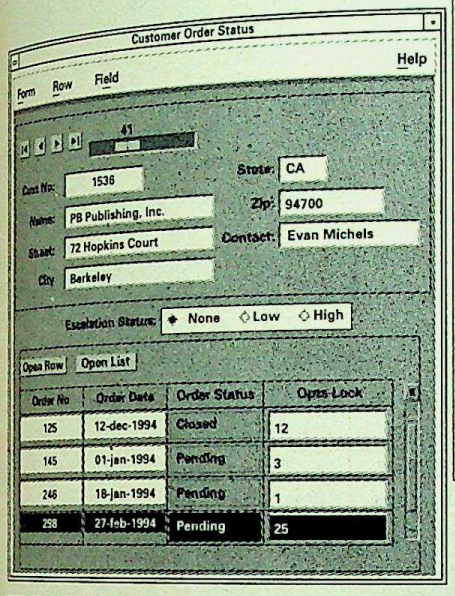
Mala Bhargava

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

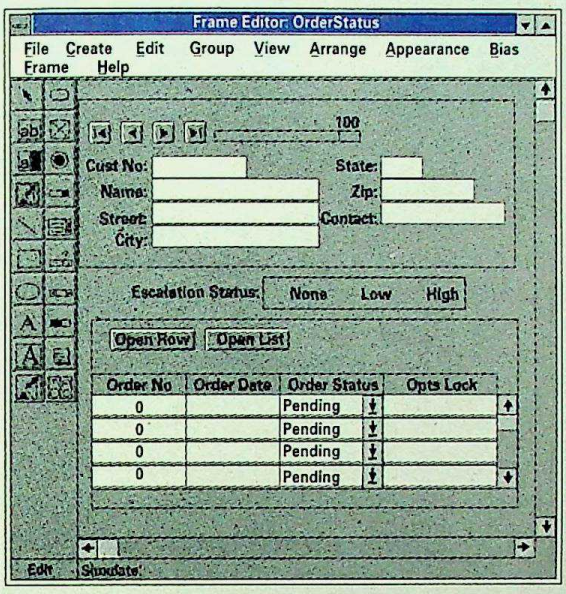
Digitized by Arya Samaj Foundation Chennai and eGangotri

Hitch a Ride To Second-Generation Client/Server On CA-OpenROAD.





UNIX /Motif version of CA-OpenROAD Customer Order Application.



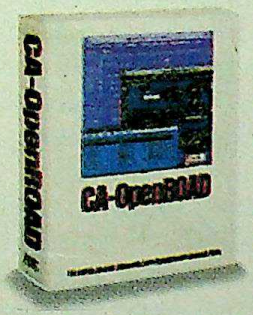
Paint your applications with CA-OpenROAD's visual development tools.

The path to second-generation client/server has finally been cleared. Introducing CA-Open ROAD®

With its advanced, powerful, repository-based architecture, applications can be constructed accurately and with ease. And with its multi-platform GUI support, it doesn't matter whether you're targeting UNIX/Motif or Windows.

And since CA-OpenROAD is the only product of its kind that supports triggers and stored procedures with identical source code across databases, you don't have to be a database expert to use it. What's more, CA-OpenROAD provides both template-driven application generation and complete object-orientation including encapsulation, inheritance and polymorphism.

Multi-Platform
Mission-Critical
Repository-Based
Native Database Access
Template-Driven
Object-Oriented
Fully Scalable



Bombay	Tel. 8374669/8212240/41	Fax 8212242
New Delhi	Tel. 6854113/ 6967486	Fax 6852299
Calcutta	Tel. 403924/403762	Fax 2476952
Madras	Tel. 841272/841283	Fax 830269
Bangalore	Tel. 5592083/8305	Fax 5587882
Pune	Tel. 446121/446143	Fax 439633
Hyderabad	Tel. 314096/313263	Fax 312891
Ahmedabad	Tel. 443495/446352	Fax 6423255
Coimbatore	Tel. 211596/211196	Fax 212997

For More Information, Fax This Coupon To Bharti Sinha on Fax No. 8212242

Mastek Limited,
Plot NO. 76,
Street No.14,
M.I.D.C.,
Andheri (East),
Bombay - 400 096.

Yes, I am interested in the New CA OpenROAD®. Please rush to me:

☐ More information ☐ Your executive

I am using: ☐ CA Ingres ☐ Oracle

☐ Sybase ☐ Other - please specify _____

Name: _____

Designation: _____

Company: _____

Address: _____

_____ Tel.: _____

New CA-OpenROAD®

Ingres

MASTEK

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Inside NEURAL NETWORKS

Electronic brains modeled after the real thing are progressing towards commercial and defense use

Most attempts at making the computer more human have been drawing inspiration from the way the human body is built. Most industrial robots do not look anything like humans, but the robots of the future are expected to progressively do so. At a finer anatomical level, the human eye has relentlessly served as a perfect model for most sighting devices ever developed—from the box camera to CCD-based devices (in fact, the latter is more eye-like). So it is natural that simulating the mind began with mimicking the brain.

A little high-school biology will tell you that the brain is made nearly entirely of nerve cells. A nerve cell, called a neuron, looks a little like a hand with a splayed palm, but a palm with tens of fingers. Each finger, called an axon connects to the axons of other neurons. The end result is a densely packed network of neurons with billions of interconnections—a local area network we know as the brain.

A neuron can talk only with those neurons that it is physically connected to. This "talking" is done by means of electrical signals, like in a computer. However, these signals are a result of chemical electricity, which, in comparison with signals in electronic circuits, is transmitted much more slowly. Yet the brain can often process complex information more quickly than any known computer. This is because of the ability of the brain to sustain more than one "thought" at a time. This capacity derives naturally from the intense connectivity of the brain's neural network. A signal generated by one neuron is transmitted simultaneously to hundreds of other neurons. This is opposed to the design of conventional electronic circuits in which chip A talks to chip B on the bus, then chip C takes over and so on. The human brain is like a billion parallel processors working in tandem. Each individual processor, or neuron, does an extraordinarily simple task. It merely adds up all the signals being pumped into it by adjoining neurons. And this summed-up signal is transmitted to the neurons that lie "ahead".

If all the brain's neurons were identical then the signals generated by one neuron would achieve little apart from being replicated by the adjoining neurons. (Yes, the signal could come a full circle and reach the originator to liven up things, but that would take a while.) The enormous variety in thought that even the dullest human possesses is because of the axons that connect neurons. Axons possess the property of being able to attenuate or accentuate a signal flowing through them. Every axon possess this property to a differ degree.

So a single electric signal co spark off neurons far away from it thousands of ways. Some of th neurons would end up controlling hi and emotions, and the order in wh the brain fires neurons probably gover personality.

For most purposes, this is the mod on which neural networks are base Neural networks are neither hardw nor software. They are a model processing information, if you like. M neural networks are software simulat and a few exist as ICs. But, the m common thing that binds all hum attempts at neural nets is that simulat neural networks are much more simp A hundred neurons with a thous interconnections between them considered capable of a great life.

The network is often layered. simplify understanding the model haphazard collection of neurons w give more interesting results but w also be very difficult to control. E neuron adds up the signals coming it and transmits it outwards to neurons that lie in the next la Remember that the interconnect are supposed to amplify (or attenu these signals. This is done simply multiplying (or dividing) the valu the signal being fed into the link.

In statistics, multiplying a numb

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

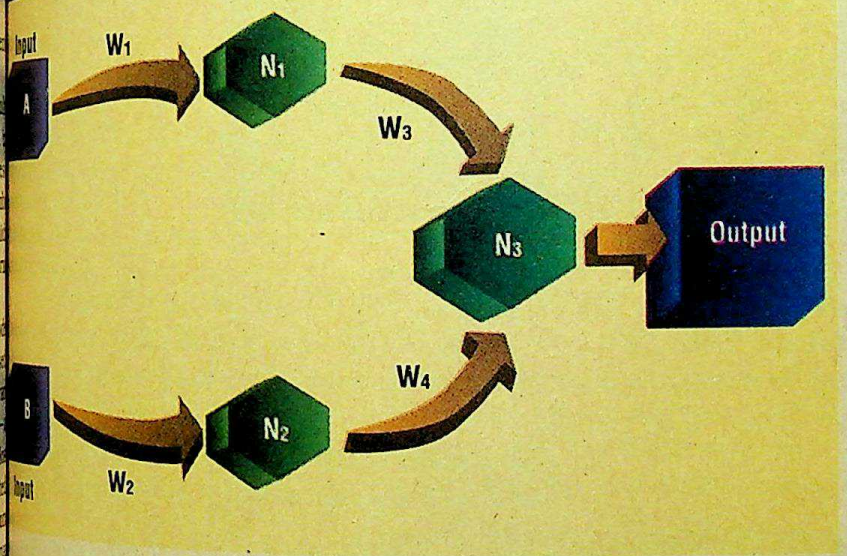
Digitized by Arya Samaj Foundation Chennai and eGangotri

it more importance is called ding". Thus, we have weighted ges. Since the interconnections een neurons do just that, they are to have weights. There is another apparent difference between the and an artificial neural network . The brain's network does not clearly defined regions of input and t—probably because there are so of them. An ANN always has a set rons which take input and a set of ns (at the other end, with layers of ns between them) for output.

ving a problem using a neural rk is often a task that involves than an appreciation of the brain's gs. The problem must be well layer (in that order) could be just as good as a more complex 4, 10, 2 structure. Often the number of inputs and the number of outputs can decide the number of neurons in the first and the last layer respectively, but take even a simple four-layered structure and the mind boggles with permutations.

Designing a network would also involve deciding the format in which you would require the inputs to be "fed" to the net and type and number of outputs desired. An experiment to detect if there are any tanks hidden in pictures of dense jungles using ANNs could digitize the picture and use one neuron in the input layer for every pixel in the picture. Alternatively, the

THE WORLD'S SIMPLEST ANN



me that we are desi-gning a very le neural network which is sup- ed to take two numbers A and B as ers and generate an output which is e times the first number summed four times the second number. So his rare instance we know that the ut we want is 3A+4B.

The output of the neural network shown below is AW1W3+BW2W4. So we can assign unity weights to W1 and W2 (which is the same as doing away with them) and make W3=3 and W4=4. That was easy. This is a two-layered network, with only an input layer and an output layer.

to a solution using neural nets, should not require a precise answer. element of "fuzzy logic" suggests to you, you are probably correct in g ANNs.

here are no real rules that tell gner what sort of an architecture should choose. A three-layered ure with 4, 5, 2 neurons in each

picture could be pre-processed and in place of using every pixel, only some statistical info need be given. Similarly, the output could either be a number—coming from a single neuron, and denoting the number of tanks detected—or another picture with the tanks marked in red. The two models would obviously be very different in terms of complexity.

These are the easy steps, which can be decided on paper. The most difficult, and often frustrating part of getting a working neural network is training. Training a net is the process that decides what value of weight each link between two neurons should have. In the beginning, one starts with random weights. By a process of training and correction, the value of weights assigned begins to improve. Training is done by using inputs with known outputs. Any error is then quantified and used to change the value of the weights so as to reduce the error if the same input is used again subsequently.

A common problem is that while one (or one set of) input gives near perfect results, another set might produce results that are way off target. Try changing the weights to correct for the second set and the first goes haywire. One could force upon the net a combination of weights that gives perfect results for both sets of input, but that would inevitably result in any other set of inputs—not used during training—giving erroneous results. And since a neural net is supposed to respond correctly to situations that have not been "experienced" while training, over training is a serious problem.

Deciding on a good set of training samples is important. The tank-detection network mentioned earlier was actually attempted as part of defense research. After what was considered satisfactory results during training, the net was put to test—with laughable results. It dawned later that all pictures with hidden tanks in them were taken in cloudy weather—with sunny days being practically tank-free. So anytime the net saw a sunny picture, it would dismiss the possibility of hidden tanks!

Weights are calculated from output error using several mathematical techniques. The most common of them is called back-propagation and would be described in any text on the subject. In fact, selecting weights for an ANN is very much like fitting a curve through a set of points and using the curve later to interpolate or extrapolate. Your results will only be as good as the choice of the type of curve. The fact that curves come in many shapes and sizes—from a simple straight line to exponential

Continued on Page No. 48

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

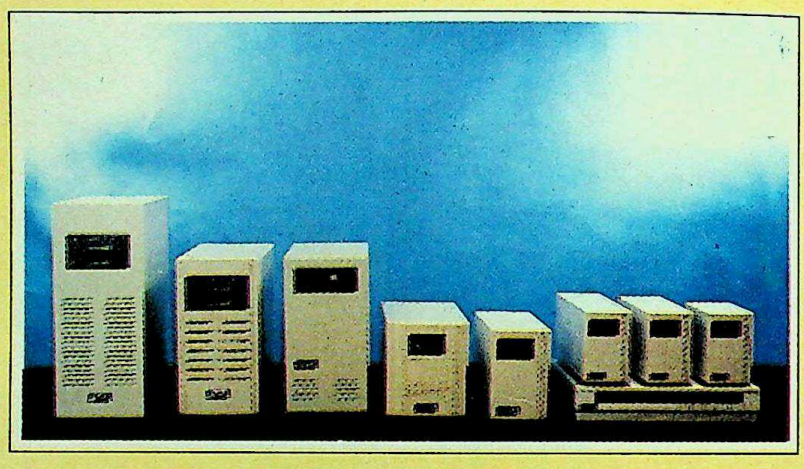
Digitized by Arya Samaj Foundation Chennai and eGangotri

SHIELD

of power protection during power failure, brownouts, fluctuations, spikes, sag etc.

POWERCOM

UPS + AVR



UPS + AVR Features : ■ 75% to 125% of Input voltage for best Lan/PC protection ■ Microprocessor Controlled ■ Built in MF - Batteries ■ Wide range Offline : 250VA to 1200VA, Online : 1KVA to 15KVA ■ 1 year comprehensive warranty ■ Compact yet powerful ■ Built in Novell Port

yes NetWare Tested and Approved

More than 4000 countrywide installations
All India Dealer Sales / Service Network

Now Available
UPS KING SERIES
425 VA

KUNHAR PERIPHERALS PVT. LTD.

A-23, Shri Ram Industrial Estate, 13, G.D. Ambekar Road,
Near Wadala Telephone Exchange, Wadala, Bombay - 3
Tel. : 4130442 / 4130646 Fax : 91-22-4130218

Factory : Gat No. 142/2/1, Dingraj Wadi, Koregaon Bhima,
Taluka Shirur, Pune. Tel. : (02137) 52519 Fax : (02137) 52520

Authorised Distributors

BOMBAY ★ Avion Electronics Tel. : 3858959 / 3882137 / 3880237 ★ Essens Power Conversion Tel. : 5564284 / 5572259 ★ Sy... Power protection Tel. : 5653230 / 5648169 **POONA** ★ MKM Tubes Tel. : 630695 / 630973 **INDORE** ★ Fino Marketing Tel. : 53... ★ K.K. Computers Tel. : 533467 **NAGPUR** ★ Viba Enterprise Tel. : 530490 **NASIK** ★ Technocrat's Systems Tel. : 579510 **NAVS...** ★ Bugs Computers & Systems Tel. : 52654 **NEW DELHI** ★ Axlon System Tel. : 6414392 **BANGALORE** ★ Vak Computers Tel. : 2284... **HYDERABAD** ★ Rook Technologies Tel. : 819773 **GOA** ★ Computer Shop Tel. : 223712 **SURAT** ★ Rohan Business Machines ... : 30001 / 426651 **BARODA** ★ Pearl Communica Tel. : 452558 **BHARUCH** ★ Pearl Communica Tel. : 36064.

WANTED DEALERS IN UNREPRESENTED AREAS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

IAVT 3.01

An anti-virus DOS package with some innovative features, but a somewhat non-standard interface

THE SPECS

PRODUCT: IAVT 3.01. Anti-virus scanner, cleaner and shield. Includes IAVT Pro and other modules.

FEATURES: IAVT Pro module works on boot viruses without a clean boot disk. Separate utilities for tackling Monkey and One-Half viruses.

PRICE: Rs 1,888

SUMMARY: A compact and reasonably fast and innovative virus scanner and cleaner, with a good-looking interface but one that takes a spot of getting used to. IAVT is a control center that launches the other modules.

Reader Query Service #E1135

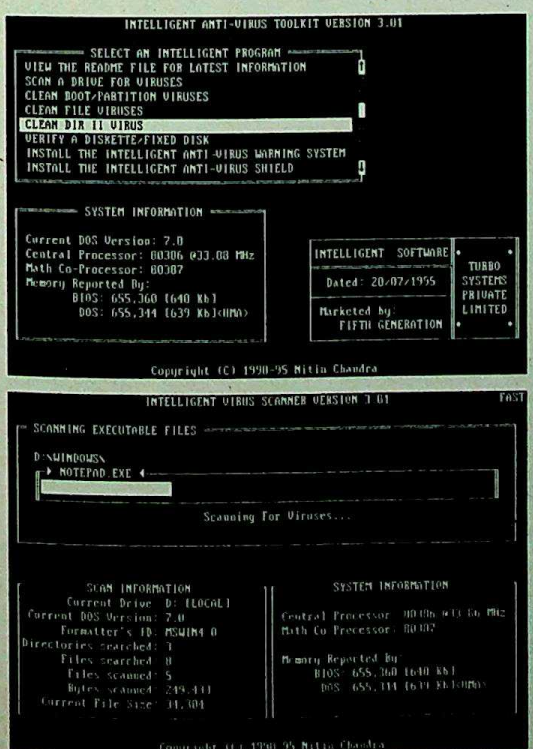
VT is the basic module in the kage, something like a Norton ntrol Center. Load IAVT, and the ening screen gives you options load the other modules. You can n these from the DOS prompt. ese modules include a scanner, ee cleaners for Boot, File and the l viruses, an anti-virus shield install n, and a rather interesting README t documents the history of the ge. This is all within 300 kB of e, which is nice.

r scanner is fast enough, and it's ed to *look* even faster, with a full- status bar for every file scanned... lean option is separate. It would been nice to have a "Clean—Y/N?" n on an infected file, but IAVT has separate modules for the two ions. You get a useful readout of n information, most of the time.

e vendor reports that the scanning logic beyond simple string searches, o could catch some viruses beyond n the current database. We couldn't his. The cleaning module works for pecified viruses, the most common in India. Updates are available e. for new viruses that break loose. e cleaning modules, and the shield, rite-protected—they require you to the key disk (or you can simply them off the key disk). The scanner, several other modules, are atable. Indeed, updates are ble online on the company's BBS. ing the features is an interesting called a "virtual indicator". Running installs some code that checks for ot-sector virus even before DOS p, and warns you. You can stop, tinue.

IBVC, which installs itself into the partition table area, has just enough code to warn you of boot-virus activity as you boot. Because it sits on the same place independent of disk type, IBVC will activate even if the CMOS "disk type" is changed deliberately, or the CMOS RAM setup information is lost. It doesn't take up memory, for it isn't a device driver or TSR. Yet after installing IBVC, I found a slight slowdown in my Windows apps. It transpired that IBVC blocked 32-bit disk access, which Windows uses to speed things up. I wasn't sure I liked that, so an FDISK / MBR removed IBVC. But overall, it's a neat idea, which I haven't seen before.

This product will take some getting used to, for things don't happen the way you expect. Unless you spend some time reading up the manual, and I haven't found many users (especially of virus scanners) overly fond of that.



For instance, you need the IAVT files in your current directory or in the path, to start a scan. This is documented, but the point is that if you start it from elsewhere (say A:iavt from drive C:), the module loads, and everything seems fine—but it won't scan. And it won't tell you *why*, unless you read the manual.

The modules worked well with DOS machines, but not with Win 95. IBVC won't install on Win 95 drives; IAVT Pro reported EMM386-related errors even when I booted into the DOS prompt (with BOOTGUI=0 in MSDOS.SYS), and so on.

The manual does document all you need in some detail, but a simple alphabetical index would go a long way to making it usable. Better still, some quicker and clearer messages (such as on a user error), would have avoided the need to refer to the manual in the first place. .

Overall, a product that's fast and effective with a degree of innovation and a good-looking interface. A higher level of intuitiveness would make it a lot more usable (and the manual less necessary).

By PCQ Labs. A review of this product was carried in January, but some modules and features were missed out in the evaluation, and the version printed as 3.0 instead of 3.01

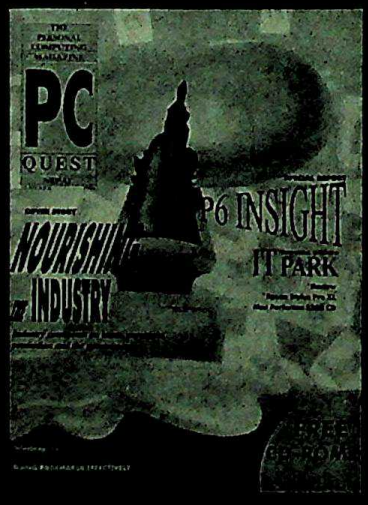
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE

PC QUEST NEPAL

PC QUEST LAUNCHED IN NEPAL



PC QUEST, THE FASTEST GROWING COMPUTER MAGAZINE, HAS BEEN OFFERING INFORMATION ON THE LATEST PRODUCTS AND TECHNOLOGIES FOR THE LAST SEVEN YEARS. A **FOUNTAIN OF INFORMATION** FOR THE IT PROFESSIONALS, **PC QUEST** HAS PLAYED A MAJOR ROLE IN THE POPULARISATION OF COMPUTERS IN THE COUNTRY.

WITH A VIEW TO REACH MORE PEOPLE, **PC QUEST** HAS GONE **INTERNATIONAL.** (BEGINNING WITH NEPAL).

IN A RAPIDLY DEVELOPING AND GLOBALISING NEPALESE I T SCENARIO, WITH MAJOR MULTINATIONAL VENDORS SELLING THEIR PRODUCTS THERE, THE NEPALESE MARKET, IS DEFINITELY HOTTING UP. THE PROMISE OF MASSIVE INFORMATION EXPLOS MAKES A CREDIBLE, COMPREHENS AND UNBIASED MEDIUM A NECES TO CATALYSE THIS GROWTH PROC

OBVIOUSLY, **PC QUEST** IS THE O AND ONLY MAGAZINE WHICH CAN FULL JUSTICE TO THIS SER ENDEAVOUR.

THE NEW MAGAZINE AIMS AT KEEP LOCAL USERS AND VENDO INFORMED ABOUT THE LATEST I **PC QUEST** NEPAL COVERS NOT O WILL RESEARCHED TECHNOLOG INSIGHTS AND PRODUCT REVIEWS, ALSO INCLUDES ISSUES RELATED TO INDUSTRY, MARKETS AND POLICIES NEPAL.

NEPAL IS JUST THE FIRST ST PC QUEST INTENDS GOING TO O PLACES TOO.

FOR FURTHER DETAILS CONTACT:
D-14, PANCHSHEEL ENCLAVE,
NEW DELHI-110 017
PH.: 6433999, 6435999, 6413938

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ASSCOM nounces New i-Piracy atives

ASSCOM and BSA have announced their renewed anti-piracy ves to curb software y in India. The plans de creating awareness, ning the users, training e officials and raiding re pirates and users of ed software. Towards rd NASSCOM and BSA plans to hold seminars te awareness. They are launching an additional -piracy hotline in Delhi ew hotlines in Bombay Bangalore. The hotline also provided information rocedures to copyright re in India. They have y provided intensive s to police departments t piracy. With their new ves they hope to reduce re piracy in India by 50 nt.

rola And dcore Team Up

ardcore, a division of Aptech, has tied up with Motorola Infor- n Systems Group to be- s educational partner. gh this, Hardcore will data and telecom ion to the corporate and segment.

rdcore has introduced a hensive program g to an Advanced a in Networking and munication Tech- ies. This has been ped in association with ola-ISG and Pace ty with some elements well's extensive range es integrated in it.

En Route To ATM

Bay Networks recently organized a seminar on the key issues related to networking technology called "En Route To ATM". It was conducted by John T Lounsbury, technical specialist, Bay Networks USA. Some of the topics discussed were ATM overview, 100 MBps Ethernet products and Network management. He reviewed the Bay Network fast Ethernet products and how they can be implemented in a customer's existing network with the help of Bay Network's management packages.

Apple Industries To Restructure

Apple Industries has announced that it is going to reorganize the company's business in order to refocus it. It has been decided that the information technology division of the company will be moved into Aptech. The Apple Industries would then be renamed as Apple Global Finance at a later date.

IIS Infotech Ties Up With CIMAD

IIS Infotech has made a strategic partnership with the Belgium-based CIMAD Consultants. The alliance will enable IIS to execute projects for CIMAD and its clients through an offshore development process. IIS is expecting to start on its first project for CIMAD very soon. In this project object oriented paradigms will be used on a mainframe under a traditional software environment. This will allow flexibility associated with open systems while exploiting the computing power of mainframes.

DoE Announces Award For Excellence In Electronics '94

The Department of Electronics announced the awards for Excellence in Electronics for the year 1994 at a recent function. The chief guest Eduardo Faleiro, Minister Of State gave away the prizes. HCL-HP was awarded the first prize in the category of best computer hardware. Advanced Technology Devices based in Bombay was given the second prize. In the best software company category Tata Consultancy Services bagged the first prize. Fujitsu ICIM accepted the second prize which the company got for the software category.

Sonata-Microsoft Insight '96

Sonata recently organized the Sonata-Microsoft Insight'96, an annual technology show. The theme was "Enterprise in Action" and had an objective of familiarizing IT planners and IS professionals with Microsoft technologies. Also, Exec Office, an office automation concept of Sonata was launched.

Sonata To Vend Scala

Sonata Software has recently formed a separate business unit called the Scala Division to support, enhance and distribute Scala, a Swedish enterprise management business software. Scala covers a variety of business management activities like financial accounting, sales order processing, purchase and inventory control, material requirement planning etc.

CELLect Cards From Motorola

Motorola launched Cellect data interface cards at Communications'95. The interface card converts GSM cellular phone into a transmitter or receiver for not only voice but also faxes, data, electronic mail, online services, internet and many other digital services.

Apple Computer Hardware Training

Apple Computer International has appointed Computer Garage as their Training Provider for hardware in India. Computer Garage is a leading provider of after sales services, technical training, help desk and other technical support services to the IT industry.

Cranes Software Ties-up With DSP

Cranes Software has tied up with DSP Technology for their Signal Analysis System, DSPT Siglab. SigLab is a lab quality dynamic signal and system analyzer which is completely integrated with MATLAB software. SigLab also uses the graphic facilities of MATLAB.

Microland Brings Netscape To India

Microland, a Bangalore based networking company, has tied up with Netscape and this tie-up will bring three families of products to India: Netscape

CC-0. Mumukshu Bhawan Varanasi Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Navigator client software, Netscape server software and Netscape Internet Applications. Microland has also formed a new division called Microweb to concentrate on WWW and Internet related software and services. This division will concentrate on web publishing and hosting, web products and training and web programing.

PCN Network Launched By MobileLink

MobileLink has announced a digital cellular network developed by Nortel. This Personal Communication Network system operates in the 1,800 MHz band compared to 900 MHz for GSM. The operating frequency being higher, the cell sizes are smaller for PCN as compared to GSM. This allows PCN to support more subscribers per specified area.

Seminar On Trends In Database Technology

Coromandel Software organized a seminar in which the evolution in the IT environment was discussed, how it was moving from the Structured Reports to Communication to Decision Support System. It was mentioned that in the emerging networking environment, organizations will have to implement Enterprise-wide Business Critical Client/Server applications. A presentation of Integra4 RDMS was also given.

Oracle WebSystem Launched

Oracle has introduced Oracle WebSystem, a suite of software products which helps in combining the power of Oracle7 database technology with Web-based servers, browsers and development tools. Oracle WebServer option can be used for accessing distributed databases and applications from anywhere in the world. The Internet Services and Electronic Commerce Consulting Practice integrates Oracle technology and multimedia content-management systems.

Virtual Reality Exposition

DoE and some companies have formed SIGVR, Special Interest Group on Virtual Reality. SIGVR is hosting a three-day conference from 18th to 20th April. Many Indian and foreign companies will be taking part in the exposition and will also demonstrate their products for VR applications.

Programs Launched By MAIT

MAIT has launched two programs in the areas of exports and quality improvement. These are the Quality Recognition Program and the Award for Excellence in Exports. The Quality Recognition Program is set up to work as a change in work culture and the Awards of Excellence are aimed at providing necessary thrust for developing hardware exports from India.

Corel Buys WordPerfect

On January 31, Corel Corp of Canada announced that it was buying the WordPerfect family of software from Novell Corp of Utah, USA.

Corel CEO Michael Cowpland and Robert Frankenberg of Novell said they saw "new opportunities from the partnership" that would ultimately enhance their core businesses.

Novell acquired WordPerfect in 1994. However, it did little but dilute Novell's core competence area: NetWare products. PerfectOffice floudered against Microsoft Office and SmartSuite, declining into near-non-existence. Novell was clearly not geared up to sell office apps.

Corel dominates the PC graphics market through outstanding products, aggressive marketing and well-developed channels. In India, its products are distributed by Hyderabad-based MultiSoft, Delhi-based SVAM, and Wipro of Bangalore.

The deal makes sense for both companies. Co... been rapidly expandi... apps lineup, once focuse... on graphics and ... specialized produc... acquired Ventura from ... This second major acqu... gives it an office suit... some powerful apps ... innovative packages ... InfoCentral. Corel's aggr... packaging, pricing ... marketing could wel... them, to bring some inn... competition to Mic... Office.

Novell was working ... integration of the Perfect ... suite with Novell's Grou... client for NetWare; i... continue this work with ... Corel will license ... GroupWise client and ... electronic publishing s... for inclusion in ... PerfectOffice suite wit... Corel offerings su... CorelDRAW 6.

Corel will assume ... support responsibilities ... of the products, and ... receive rights to all ... technology necessary f... WordPerfect 7 and Pe... Office 7 releases schedu... later this spring.

Seminars And Exhibitions

FEBRUARY

Wisitex'96, New Delhi
7-13 Feb 1996
Contact: Wisitex Foundation, B-17, Greater Kailash Enclave, Part II, New Delhi 110048 **Tel:** 11-6214185, 6214201 **Fax:** 11-6468992

TradEX'96 , New Delhi
17-20 Feb 1996
Contact: FICCI, Federation House, Tansen Marg, New Delhi 110001. **Tel:** 11-3319251, 3319261 **Fax:** 11-3326034

NASSCOM '96 , Bomba...
7-10 Feb 1996
Contact: NASSCOM ... Ashoka Hotel, Chanak... New Delhi 110021. **Tel:** ... 600121 Ex 2109 **Fa...** 6885475

Multimedia-96, New De...
27-29 Feb 1996
Contact: Secretary, ... Institutional Area, Lod... New Delhi 110003 **Ph...** 4631820 **Fax:** 11-4631...

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

The INTERNET PROTOCOLS

TCP/IP is being used the world over as a robust transmission protocol for networks. Here's an update on the latest standard—the Point-to-Point Protocol

The mega-network of the ...t spread across vast oceans, ...es of land and twenty million ...e is bound together by a single ...etter word—TCP/IP. TCP/IP is ...y a set of protocols developed to ...w cooperating computers to share ...ces across a network. It was ...oped by a community of ...archers working on a defense ...rk called the ARPAnet which was ...moulded to form the Internet.

...day TCP/IP is the most successful ...anism for networking computers ...ide. TCP/IP consists of two ...ocols: TCP and IP. The TCP ...ission Control Protocol) is ...nsible for breaking up the message ...datagrams, reassembling them at ...ver end, resending anything that ...st, and putting things back in the ...order. The IP (Internet Protocol) is ...nsible for routing individual ...grams. Every IP datagram contains ...ource address and destination ...ess so that each datagram can be ...ed independently. But using the ...r alone gives you a connectionless ...reliable delivery system. It is the ...module that contains the logic ...ssary to provide a reliable, virtual ...

...may seem like TCP is doing all the ... and on small networks that is, ...r less, true. However on the ...net, simply getting a datagram to ...ination can be quite a job. A ...ection may require the datagram ...p through several networks all ...d the world before reaching its destination. And keeping track of the routes and handling incompatibilities among different transmission media can be complex.

To establish a TCP/IP link, a dedicated network connection is needed, the one which requires network cards and cables. But introduction of some Serial Line Protocols has made it possible to enjoy a true TCP/IP connection over phone line with a dial-up modem or a leased asynchronous circuit.

SLIP and PPP

SLIP and PPP are protocols which emulate a true TCP/IP connection over a serial line. They essentially trick the system into thinking that its serial connection is a dedicated network connection. SLIP (Serial Line Interface Protocol) and PPP (Point-to-Point Protocol) are two different protocols for the same purpose, though PPP is more refined.

What is Winsock?

Winsock (short for Windows Sockets) is used as an interface between the TCP/IP stack and Windows applications. In essence, it's an API (Application Program Interface) to the

Point-To-Point Protocol

The PPP provides a standard method for transporting multi-protocol datagrams over point-to-point links. PPP comprises of three main components: A method for encapsulating multi-protocol datagrams; a Link Control Protocol (LCP) for establishing, configuring, and testing the data-link connection and a suite of Network Control Protocols (NCPs) for establishing and configuring different network-layer protocols.

Encapsulation: The PPP encapsulation provides for multiplexing of different network-layer protocols simultaneously over the same link. The PPP encapsulation has been carefully designed to retain compatibility with most commonly used supporting hardware.

Link Control Protocol: In order to be sufficiently versatile to be portable across a wide variety of environments, PPP provides a Link Control Protocol. In order to establish communications over a point-to-point link, each end of the PPP link must first send LCP packets to configure and test the data link.

Network Control Protocols: Point-to-Point links tend to worsen many problems with other network protocols. These are handled by a family of Network Control Protocols (NCPs), which each manage the specific needs required by their respective network-layer protocols.

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TCP/IP. Winsock's design is similar to Berkeley Sockets, though the standard is defined separately. It comes in the form of a DLL and runs under Windows 3.x/NT/95 and WFW 3.11.

You can obtain Peter Tattam's Trumpet Winsock, a shareware Winsock DLL from your local BBS or the Internet (http://www.trumpet.com.au/). Peter's Winsock is perhaps the most popular WINSOCK.DLL and supports Ethernet, SLIP, CSLIP and PPP.

Setting Up Trumpet Winsock for PPP

Though setting up Trumpet Winsock is extremely easy, you'll need to supply the exact information to ensure a connection. Fire the Setup option under the File menu and start entering the required information...

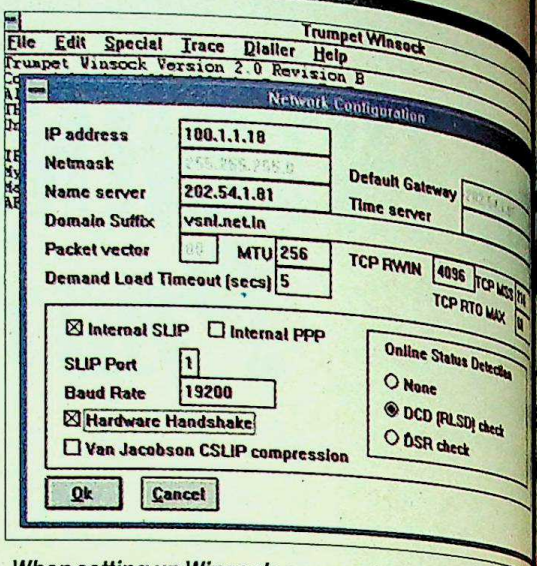
IP Address: This is your machine's IP address. An IP address is a 32-bit dotted quad, which is assigned to all machines connected to the Internet with TCP/IP. The IP address could either be static or dynamic. A static address is a permanent address, whereas in the dynamic scheme the machine is given a new address every time one logs in. VSNL uses the dynamic scheme of addressing. Therefore with VSNL you don't have to supply an IP address at all.

Name Server: The 32-bit IP numbers assigned to machines on the Internet can be quite tough to remember (especially when there are so many of them), the machines are instead assigned alphanumeric names (eg arbornet.org stands for 148.59.250.2). But for use with TCP/IP, these have to be converted back to their numeric form. A Name Server does that. It maintains a look up table of every machine's alphanumeric names and the corresponding numeric equivalents. Numeric IP address of such a server should be provided to Winsock, so that it can look up any name that needs to be resolved.

NetMask (Network Mask) is a dotted quad, like the IP address, which determines which portion specifies the host on that subnet. It is actually a pattern of bits, which when overlayed onto an IP address will tell the subnet of that address. Luckily you won't need this when using PPP/SLIP.

Domain Suffix is the last portion of the domain name your machine will acquire. In case of VSNL, it's vsnl.net.in.

Time Server: This is not being used by Trumpet Winsock at present, so you can leave it blank.



When setting up Winsock, you need to supply the exact information to get connected.

Demand Load Timeout: This is the number of seconds TCPMAN stays loaded after all Winsock applications have finished with it. This only applies if the Winsock has been demand loaded. That is, the winsock.dll has been loaded before the TCPMAN. This normally happens when another application launches Winsock.

Default Gateway: A gateway is a machine that lives on two different networks and is the connection to the outside world. You don't need to supply a default gateway address for PPP/SLIP connections.

MTU (Maximum Transfer Unit) is the largest amount of data that can be transferred across a given physical network. For LANs like Ethernet, MTU is determined by network hardware. For networks that use serial lines it's determined by the software.

TCP RWIN (TCP Receive Window) determines how much data the receiving computer is prepared to receive. It should be three to four times the size of TCP MSS (an exact multiple if possible).

An RWIN set too large will result in greater loss of data if a packet is lost or damaged. An RWIN set too small (that is the same size as the MSS) will be very slow, as each packet will have to be acknowledged before the next packet is sent. An RWIN twice the size of MSS is not considered usable either.

TCP MSS (TCP Maximum Segment Size) defines the largest segment of TCP data that the Winsock is prepared to receive on that connection. When a connection is established, the two agree to use the minimum of each advertised value. Because headers are typically 40 bytes, your MSS should always be at least 40 less than the MTU. If the MSS is too low, data/header ratio will be low. Alternatively, a large MSS will lead to large IP datagrams. These will fragment when traveling across networks thus decreasing performance. For this reason performance may sometimes be improved by dropping the value of MTU.

Finding optimal values requires a bit of tweaking. It depends on the kind of connection you have. Either SLIP, CSLIP, PPP all require different settings. Though VSNL requires a MTU value of 1500 be used for the MTU, the corresponding TCP MSS value is 1460 and TCP RWIN is 4096.

TCP RTO MAX (TCP Retransmit Time Out Maximum) sets an upper limit on the retransmission timeout. Keep the value near 30 seconds. Interactive programs like Talk and IRC it should be made lesser.

Other Options

Internal PPP radio button should be checked. Hardware Handshaking and Van Jacobson CSLIP compression should also be on. SLIP Port will be the modem comm port value.

Vipul Ved Prakash is a networking enthusiast who manages a networking and consulting company.

You can reach him at vipul.ved@arbornet.org

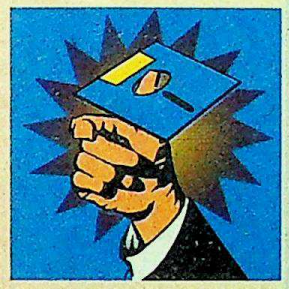
CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

The PCQ Market Monitor

List prices for software, hardware and peripherals. This listing lets you compare features and prices before buying. Use the Reader Query Service number (RQS No) and card to get more information about the products listed here

SOFTWARE



COMMUNICATIONS AND GROUPWARE

Product	Developer	Price	RQS No
Procomm Plus Network	Datastorm	35,390	E021535
Procomm Plus 2.01	Datastorm	7,090	E021533
Procomm Plus Win 2.11	Datastorm	7,890	E021534
WinFax Pro/Networks 5/4.0	Delrina	26,000	E02733
WinFax Pro/Networks 4.0	Delrina	25,000	E02731
WinFax Pro/Server 4.0	Delrina	12,000	E02732
WinFax Pro Single User 4.0	Delrina	7,995	E02730
DosFax Pro, Single User 2.0	Delrina	5,995	E02734
Notes 10 user	Lotus	135,000	E021586
Notes Desktop 10 user	Lotus	76,000	E021588
Notes Server	Lotus	15,500	E021584
Notes Client	Lotus	15,500	E021585
cc: Mail 10 user	Lotus	15,000	E021573
Notes Desktop	Lotus	9,000	E021587
Lotus Organizer	Lotus	5,500	E021559
MS Mail Server 3.2 DOS	Microsoft	26,230	E021821

COMPILERS

Fortran (DOS)	Softek	5,000	E02695
Fortran (LAN/Unix)	Softek	15,000	E02696
COBOL (DOS)	Softek	15,000	E02697
COBOL (LAN/Unix)	Softek	40,000	E02698
Pascal (DOS)	Softek	5,000	E02701
Pascal (LAN/Unix)	Softek	15,000	E02702

COMPUTER-AIDED DESIGN

AutoCAD 13 DOS/Win	AutoDesk	104,000	E021468
AutoCAD 12 DOS/Win	AutoDesk	93,500	E021467
AutoCAD 11 DOS	AutoDesk	46,500	E021466
AutoDesk Workcentre/Win	AutoDesk	33,000	E021472

DATABASES

Product	Developer	Price	RQS No
dBASE 5.0 for DOS	Borland	14,245	E021606
dBASE for Win Developers Kit	Borland	30,950	E021610
dBASE IV 1.5/2.0 for DOS	Borland	14,245	E021611
dBASE III+	Borland	13,145	E021614
Paradox 5.0 for Win	Borland	10,945	E021620
Paradox 4.5 for DOS	Borland	14,245	E021625
Delphi Standalone/CD	Borland	16,445	E021646
Delphi Client Server CD	Borland	98,945	E021647
Forehelp	Borland	4,345	E021652
Reportsmith 2.5 PC Databases	Borland	4,345	E021656
Filemaker Pro 2.1 Win	Claris	3,950	E021763
Filemaker Pro 2.1 Win 5 user	Claris	13,950	E021764
Lotus Approach	Lotus	4,750	E021558
Access 2.0 (Win/Win95)	Microsoft	15,390	E021846
Access Dev Kit 2.0	Microsoft	18,670	E021847
FoxPro 2.6 Professional DOS	Microsoft	26,230	E021839
FoxPro 2.6 for Win	Microsoft	5,540	E021840
FoxPro 2.6 Professional Win	Microsoft	26,230	E021841
FoxPro 3.0 STD for Win	Microsoft	11,140	E021843
FoxPro 3.0 Professional Win	Microsoft	27,890	E021844
Backoffice Server for NT 1.5	Microsoft	133,760	E021781
Backoffice Client MLP 20 user	Microsoft	254,370	E021783
SQL Server for Win NT 6.0	Microsoft	60,350	E021790
SQL Workstation, Win NT 6.0	Microsoft	29,780	E021792
SQL Client/WinNT 6.0 MLP 20 user	Microsoft	143,930	E021794
SQL Client/Win NT 4.21 MLP	Microsoft	8,990	E021803
Personal Oracle 7	Oracle	14,700	E021485
Oracle7 Workgroup Server/user	Oracle	11,000	E021486
Oracle Power Objects/Standalone	Oracle	14,700	E021487
Oracle Objects for OLE	Oracle	7,300	E021489
NLM/Sybase Workgroup 8 User	Sybase	95,000	E02735
NLM/Sybase Workgroup 12 User	Sybase	250,000	E02736

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Developer	Price	RQS No
NLM/Sybase Workgroup 16 User	Sybase	295,000	E02737
NLM/Sybase Workgroup 32 User	Sybase	490,000	E02738
NLM/Sybase Workgroup 48 User	Sybase	750,000	E02739
NLM/Sybase Workgroup 64 User	Sybase	850,000	E02740
ACT! 2.0 WIN 3.5"	Symantec	7,800	E02667
ACT! 2.0 WIN Mobile Link 3.5"	Symantec	17,300	E02668
ACT! 2.1 DOS 5-Node	Symantec	23,600	E02669
Q&A 4.0 DOS 3.5"	Symantec	12,000	E02670
Q&A 4.0 DOS 3-Node 3.5"	Symantec	23,500	E02671
Q&A 4.0 WIN 3.5"	Symantec	9,800	E02672
Q&A 4.0 WIN 3 Node 3.5"	Symantec	17,900	E02673

DTP/GRAPHICS

Pagemaker 5.0A Win LITE	Adobe	7,950	E021730
Illustrator 4.1	Adobe	21,950	E021732
Illustrator 6.0 Mac	Adobe	19,950	E021733
PhotoShop 3.0.4 Win	Adobe	31,950	E021735
PhotoShop 3.0 Mac/Win 5 user	Adobe	132,950	E021736
Persuasion 3.0 Win	Adobe	13,950	E021737
Premiere 4.0 Win	Adobe	28,950	E021739
Audition 1.0 Mac	Adobe	10,950	E021741
Fetch 1.2A Mac Server	Adobe	6,950	E021745
Fetch 1.2A Mac 10 user	Adobe	82,950	E021747
SuperATM Mac	Adobe	6,950	E021748
SuperATM Mac 5 user	Adobe	23,950	E021749
Type Align 2.1 Win/Mac	Adobe	3,950	E021750
Type Manager Win/Mac	Adobe	2,950	E021751
Type On Call 4.0 Win	Adobe	2,950	E021756
Acrobat 2.1 Win	Adobe	8,950	E021757
Acrobat Pro 2.1 Win	Adobe	22,950	E021758
3D Studio 4 DOS	AutoDesk	28,000	E021471
Animator Studio Win	AutoDesk	20,000	E021473
Animator Pro DOS	AutoDesk	20,000	E021474
CorelDraw 3.0 CD	Corel	4,950	E021703
CorelDraw 4.0 CD	Corel	7,950	E021705
CorelDraw 4.0 (Disks & CD)	Corel	9,950	E021706
CorelDraw 5.0 CD	Corel	24,950	E021708
CorelDraw 5.0 (Disks & CD)	Corel	32,950	E021709
Corel Ventura 5.0 CD	Corel	17,950	E021717
Corel Ventura 5.0 Disks	Corel	21,950	E021718
Corel Flow (Disks & CD)	Corel	4,950	E021720
Corel Photo-Paint 5 Plus CD	Corel	4,950	E021722
FrameMaker 4.0 Win/Mac	Frame	34,950	E021765
FrameMaker 4.0/Win addl user	Frame	30,950	E021766
Frameviewer 4.0 for Win/Mac	Frame	2,950	E021767
Frameviewer 4.0 5 user	Frame	6,950	E021768
Lotus Freelance DOS	Lotus	16,000	E021564
Freelance Graphics DOS/Win	Lotus	12,000	E021554
Director 4.04 Win/Mac	Macromedia	48,950	E021769
Action 3.0 Win	Macromedia	8,950	E021770
Action 1.0.4 Mac	Macromedia	8,950	E021771
Authorware 3.0 Win/Mac	Macromedia	189,950	E021772
Macromodel 1.5 Win/Mac	Macromedia	39,950	E021773
Powerpoint 4.0	Microsoft	15,390	E021857
Powerpoint Win 95	Microsoft	15,390	E021859
Fontpack 1/2 for Win 1.0	Microsoft	2,170	E021891
Publisher for Win 2.0	Microsoft	4,330	E021888
Publisher Design Pack/Win 2.0	Microsoft	1,230	E021890
HP Font Set for Win 1.0 MLP	Microsoft	1,740	E021894
TrueType Master Set	Microsoft	1,610	E021896

FINANCIAL ACCOUNTING

Product	Developer	Price	RQS No
E.X 3.0	TCS	9,950	E02706
E.X 3.0 LAN	TCS	19,950	E02707
E.X 2.0	TCS	4,950	E02708

HOME APPLICATIONS AND GAMES

Product	Type	Price	RQS No
Entertainment			
MS Flight Simulator for MS-DOS 5.0/Mac 4.0	3.5"	2,020	E02470
MS Space Simulator for MS-DOS 1.0	CD-ROM	2,020	E02470
MS Entertainment Pack 1/2/3/4 for Win 1.0	3.5"	1,240	E02474
MS Golf Course for Win 1.0	3.5"	930	E02478
MS SoundBits-MGM Movies for Win 1.0	3.5/5.25"	780	E02479
MS SoundBits-Musical Inst for Win 1.0	3.5/5.25"	780	E02480
MS Home Sampler for Win 1.0 Rel 3	CD-ROM	150	E02481
MS Arcade for Win 1.0/Mac 1.0	5.25"/3.5"	1,240	E02482
MS Complete Baseball for Win	CD-ROM	1,300	E02483
MS Basketball for Win/Win 95	CD-ROM	1,300	E02484
MS Beethoven's 9th for Win 1.10	CD-ROM	1,300	E02484
MS Musical Instruments for Win 1.00	3.5/5.25"	1,300	E02485
MS Musical Instruments for Mac 1.00	CD-ROM	1,300	E02485
MS Cinemania for Win/Mac	CD-ROM	2,490	E02488
MS Cinemania for Win95	CD-ROM	1,300	E02489
MS Ancient Lands for Win 1.0/ Mac1.0	CD-ROM	1,300	E02491
MS Dinosaurs for Win 1.0/ Mac 1.0	CD-ROM	1,300	E02492
MS Mozart for Win 1.0	CD-ROM	1,300	E02495
MS Flight for Win 1.0	CD-ROM	1,300	E02496
MS Flight for Mac 1.0	CD-ROM	1,410	E02497
Base Ball Cards	CD-ROM	1,100	E02630
ManEnough	CD-ROM	1,452	E02634
Star Legions	CD-ROM	1,452	E02635
13 Bureau	CD-ROM	1,320	E02514
Project-X	CD-ROM	1,386	E02515
Arcade Pool	CD-ROM	1,386	E02527
Dragon's Lair	CD-ROM	1,386	E02528
Magic Boy	CD-ROM	1,122	E02529
Whizz	CD-ROM	1,320	E02530
Jungle Strike	CD-ROM	1,914	E02534
Retribution	CD-ROM	1,782	E02535
Inferno	CD-ROM	2,178	E02536
Soccer Kid	CD-ROM	1,320	E02537
5 Star Games	CD-ROM	1,320	E02540
World Atlas	CD-ROM	1,386	E02538
Protostar	CD-ROM	1,210	E02539
Ringworld	CD-ROM	594	E02541
Star Crusader	CD-ROM	1,210	E02542
1000 of the World's SoundEffects	CD-ROM	1,200	E02543
Always Arthur	CD-ROM	1,518	E02545
Who Wants Arthur	CD-ROM	1,518	

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

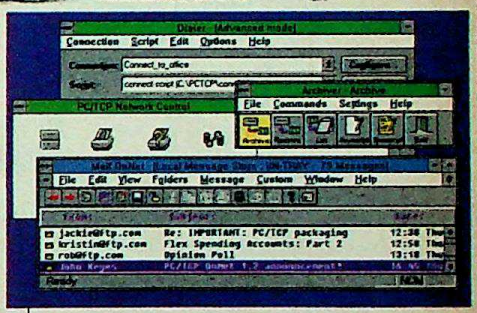
Digitized by Arya Samaj Foundation Chennai and eGangotri

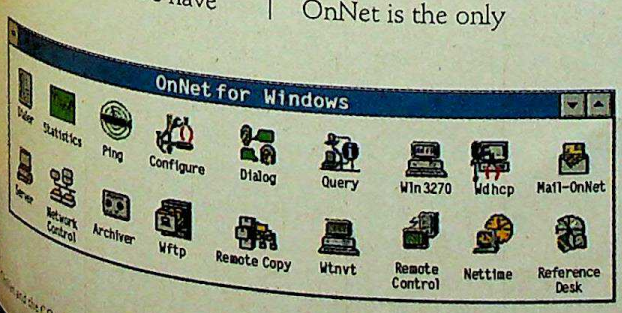
WE LINK MORE PEOPLE TOGETHER WORLDWIDE THAN ANY OTHER TCP/IP COMPANY.

OnNet™ for Windows

NO ONE HAS A STRONGER COMMITMENT TO SERVING ASIA-PACIFIC'S NETWORKING NEEDS.

Each year, more and more business people around the world are choosing FTP Software applications to bring the vast resources of global networking to their PCs. In 1986, we were the first to bring TCP/IP to the PC, and now we have become the world's premiere supplier of TCP/IP applications, with a market share surpassing 25%. Hundreds of Asia-Pacific companies rely on FTP Software's growing OnNet family of TCP/IP applications because of their proven reliability, easy-to-use features, and dedicated technical support. PC/TCP OnNet is the only TCP/IP package that offers advanced networking features such as multicast, gateway fallback, router discovery, and a 32-bit VxD NFS client. Discover for yourself what over one million users worldwide already know. For information on how to purchase FTP products, please contact our national distributors.





ftp Software®

Opening Windows To Productivity

e-mail: info@ftp.com

WWW: http://www.ftp.com

Priya GROUP

Priya International Ltd.
Tel: 91-22-2663611
Fax: 91-22-2664154
PO Box 10109
109 S.A. Brelvi Road
Fort Bombay 400001
e-mail: aditya@giasbm01.vsnl.net.in

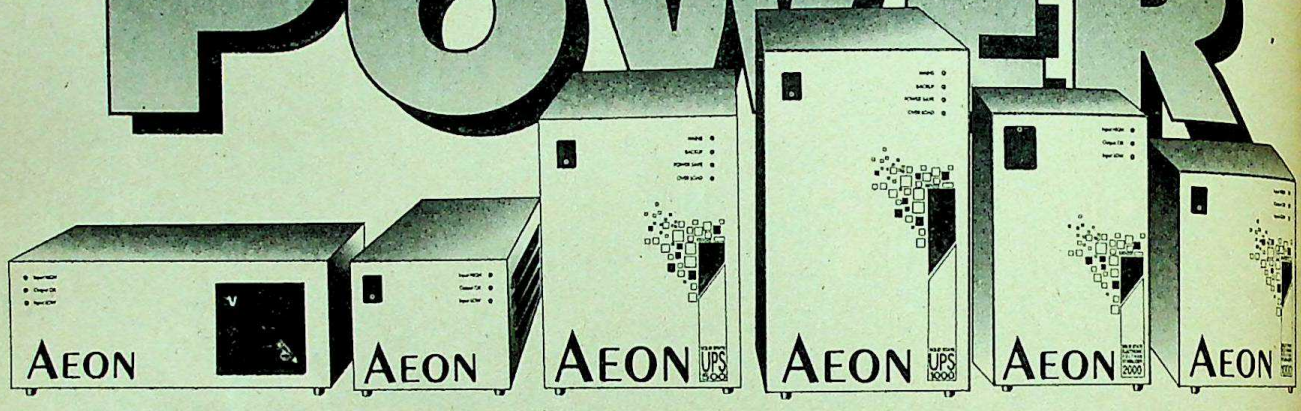
Vandit Designs Globe Scape–FTP/A

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

FTP Software, 2953 Bunker Hill Lane, Suite 101, Santa Clara, CA 95054 USA
FTP Software and the GO ANYWHERE logo are trademarks and PC/TCP is a registered trademark of FTP Software, Inc. Other tradenames, trademarks, or registered trademarks are the property of their respective holders.

Digitized by Arya Samaj Foundation Chennai and eGangotri

AEON-The SILENT REVOLUTION in POWER



CONDITIONING TECHNOLOGY

AEON **UPS** has the advanced Static Changeover technology, beating all the relay based UPS effortlessly in transfer speed. Its fully Solid State AVR takes care of mains voltage variation of an unparalleled 150 to 300V a/c. With a high speed spike suppresser internally built, and capability to withstand input surge of up to 350V, AEON is prepared to take on the worst! Its MOSFET inverter has an intelligent Automatic Idle Run Management incorporated which cuts down unnecessary battery charge wastage when computers are not in use.

AEON **UPS** comes with internal maintenance free batteries for 30, 60 or 120 minutes backup and external battery models for more backup.

AEON **Electronic Voltage Stabilizer** is a fully Solid State Voltage stabilizer which takes care of mains variation of 150 to 300V. Incorporating the On Line Tap Changing technology, with extremely fast response time, it is suitable even in areas of violent voltage fluctuation. With automatic high or low voltage cut off, high speed spike suppresser, delayed turn on, and generator compatibility, AEON **stabilizer** provides maximumprotection for all input conditions.

Quantum Power Systems

No.56, Main Channel Road, 1st Floor, Ulsoor, Bangalore - 560 008. Tel : 554

Available at :

● **BANGALORE** : COMPUTER FACTORY (I) PVT LTD Ph. : 5566485, HARDSOFT SOLUTIONS Ph. : 648752, CADDONS COMPUTER SERVICES Ph. : 6691170, RCS TECHNOLOGY Ph. : 5589468, BUSINESS LINK Ph. : 2242033, CONNOISEUR Ph. : 5543668 ● **HUBLI** : NAVNEET SYSTEMS Ph. : 66405 ● **MANGALORE** : PALS MICROSYSTEMS LTD PH. : ● **GUNTUR** : FRONTLINE COMPUTERS Ph. : 232370 ● **VISAKAPATNAM** : STARGATE TECHNOLOGIES Ph. : 555920, GAYATRI COMPUTERS & COMMUNICATION SER Ph. : 546804 ● **KAKINADA** : BHAVA COMPUTERS Ph. : 79473, S S COMPUTERS Ph. : 72519 ● **VIJAYAWADA** : MIST COMPUTERS SERVICES Ph. : 477620, COSTAL COMP Ph. : 476157 ● **HYDERABAD** : MC COY ASSOCIATES Ph. : 848052, PRIME COMPUTERS Ph. : 840583, EAST COAST COMPUTERS Ph. : 313208, DAISY SYSTEMS PVT LTD Ph. SPIK & SPAN SYSTEMS Ph. : 235845, KRISHNA SYSTEMS PVT LTD Ph. : 274006, POOJA MARKETING SERVICES Ph. : 849034, BRIGHT COMPUTERS SERVICES Ph. Ph. : 842870, V-TECH SOFTWARE SYSTEMS Ph. : 563415 ● **MADRAS** : DIGITAL TECHNOLOGIES Ph. : 8279199, COMPUTER FACTORY (I) PVT. LTD Ph. : 8524146, INIT SYSTEMS LTD Ph. : 8276070, SESHI SOFTEC SERVICES Ph. : 8251257, DIGITAL CHANNEL PH. 8275369, BIT BYTES PH. : 455599, VIDHYA ENTERPRISES Ph. : 4942066 ● **PONDICHERRY** : M D TOLIA COMPUTERS Ph. : 30266 ● **COIMBATORE** : LOTUS DIGITECK SYSTEMS Ph. : 232871 ● **ERODE** : BCB HARDWARE Ph. : 213435 ● **SALEM** : HI-Q SYSTEMS Ph. : ● **GOA** : ALLIED COMPUTER SYSTEMS Ph. : 2235783 ● **BOMBAY** : FALCON COMMUNICATIONS Ph. : 5130389 ● **COCHIN** : MUKUND MARKETING Ph. : 311684, NATIONAL COMP Ph. : 364969 ● **CANNANORE** : PRIMETECK SERVICES Ph. : 69781 ● **CALICUT** : DOT COMPUTERS Ph. : 365643 ● **AHMEDABAD** : MOTHER PHONETIKS Ph. : ● **RAJAHMUNDRY** : MICROMATIKS Ph. : 71702

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Type	Price	RQS No
Clipart/Graphics on Mountains	CD-ROM	594	E02507
Clipart/Proposal	CD-ROM	1,800	E02550
Disney's First Thunderstorm/Story	CD-ROM	1,112	E02511
Fantasy Works Voyagers	CD-ROM	990	E02545
Fantasia 95	CD-ROM	1,800	E02546
Microsoft Works	CD-ROM	1,800	E02548
Office (Novell)	CD-ROM	1,800	E02549
Office/Heaven/Clipart	CD-ROM	330	E02509
Super CD/Shareware	CD-ROM	1,452	E02513
Ultimate Blows	CD-ROM	860	E02515
Sound Sensations/Sound	CD-ROM	1,650	E02517
Super CD-3/Shareware	CD-ROM	1,452	E02518
Our House/The Family Circus	CD-ROM	890	E02520
Shareware Heavens (2)	CD-ROM	924	E02521
Adventures in Heaven	CD-ROM	1,150	E02524
Art Heaven/Shareware	CD-ROM	330	E02525
Shareware 2 Heaven	CD-ROM	924	E02526
Company Disclosure	CD-ROM	1,100	E02528
Dorling's Book of Home Remedies	CD-ROM	890	E02542
Games Pond2 Crazy Football Moon-shine Racers Thunders Strike	CD-ROM	1,780	E02543
Training			
MS Bookshelf for Win/Win 95	CD-ROM	3,110	E02462
MS Bookshelf for Mac	CD-ROM	3,110	E02464
MS Encarta for Win	CD-ROM	4,330	E02465
MS Encarta for Win95	CD-ROM	2,180	E02466
MS Encarta for Mac	CD-ROM	4,330	E02467
MS Encarta World Atlas for Win3.1.0	CD-ROM	2,180	E02468
MS Encyclopaedia/People for Win1.0 AE	CD-ROM	1,300	E02469
MS AutoMap Road Atlas for Mac 2.0	3.5"	1,640	E02470
Me And My World	3.5"	1,320	E02523
Computer Select	3.5"	990	E02510
Learning Heaven	3.5"	330	E02527
Shakespeare Classic-Macbeth	CD-ROM	1,210	E02544
Voice Sound Masterpiece/Computer Medical Library	CD-ROM	1,100	E02512
Computer Works	CD-ROM	1,100	E02529
	CD-ROM	1,130	E02532
Learn to Use Series			
Win 95			
Your PC	3.5"	718	E02574
DOS (DOS 6.2)	3.5"	1,078	E02576
Win (3.1)	3.5"	1,078	E02577
Lotus 1-2-3	3.5"	1,078	E02578
Mac	3.5"	1,078	E02579
Works for Win	3.5"	1,078	E02580
WordPerfect	3.5"	1,078	E02581
Win, DOS & PC	3.5"	1,078	E02582
Keys to Type	3.5"	1,078	E02584
Multimedia Typing Instructor/Win	3.5"	1,078	E02583
	CD-ROM	1,438	E02587
Professor Series			
Win 95 Multimedia/Win			
Win Multimedia/Win	CD-ROM	1,438	E02586
Microsoft Office 2/Win	CD-ROM	1,438	E02588
Multimedia (Mac)	CD-ROM	2,158	E02589
Multimedia (Win)	CD-ROM	1,438	E02590
	CD-ROM	1,438	E02591

Product	Type	Price	RQS No
Win (3.1)	3.5"	1,798	E02592
Ami Pro (3.0)	3.5"	1,798	E02593
Excel (5.0)	3.5"	1,798	E02595
Lotus 1-2-3 (5.0)	3.5"	1,798	E02596
Mac 7	3.5"	1,798	E02597
PC	3.5"	1,798	E02598
Word (6.0)	3.5"	1,798	E02599
WordPerfect (6.1/Win)	3.5"	1,798	E02600
Duo (Lotus 123 5.0 & WP 6.1)	3.5"	1,438	E02601
Office 2 (Pro)	3.5"	2,158	E02602
Office (WordExcel & Any Time)	3.5"	1,438	E02603
Office (Word 6.0 & Excel 5.0)	3.5"	1,798	E02604
Suite (Lotus 123 4.0 & AmiPro 3.0)	3.5"	1,438	E02605
SmartGuide for DOS (6.22)	3.5"	1,798	E02594
Typing Instructor (Win)	3.5"	1,438	E02606
Typing Instructor (Mac)	3.5"	1,078	E02607
Rosetta Stone Series			
Power Pac (Win/Mac)	CD-ROM	2,500	E02608
French Level A (Win/Mac)	CD-ROM	8,800	E02609
German Level 1A (Win/Mac)	CD-ROM	8,800	E02610
Spanish Level 1A (Win/Mac)	CD-ROM	8,800	E02611
Russian Level 1A (Win/Mac)	CD-ROM	8,800	E02612
English Level 1A (Win/Mac)	CD-ROM	8,800	E02613
Individual Training For:			
Ami Pro (Win)	3.5"	2,518	E02614
cc:Mail (Win)	3.5"	2,518	E02615
Lotus 1-2-3 (Win)	3.5"	2,518	E02616
Lotus Approach(Win)	3.5"	2,518	E02617
Lotus Freelance(Win)	3.5"	2,518	E02618
MS Access(Win)	3.5"	2,518	E02619
MS Excel(Win)	3.5"	2,518	E02620
MS Mail(Win)	3.5"	2,518	E02621
MS Word(Win)	3.5"	2,518	E02622
OS/2 (Win)	3.5"	2,518	E02623
PageMaker (Win)	3.5"	2,518	E02624
PowerPoint (Win)	3.5"	2,518	E02625
Win (Win)	3.5"	2,518	E02626
WordPerfect(Win)	3.5"	2,518	E02627
MS Office	3.5"	10,080	E02628
Lotus Smartsuite	3.5"	10,080	E02629
DOS	3.5"	2,518	E02630
Novell DR DOS	3.5"	2,518	E02631
PC (DOS)	3.5"	2,518	E02632
dBASE IV (DOS)	3.5"	2,518	E02633
LANs with Data Com (DOS)	3.5"	2,518	E02634
Lotus 1-2-3 (DOS)	3.5"	2,518	E02635
Lotus Macros (DOS)	3.5"	2,518	E02636
Paradox (DOS)	3.5"	2,518	E02637
Project Management/Dos	3.5"	2,518	E02638
WordPerfect (DOS)	3.5"	2,518	E02639
TypingInsructor/Dos	3.5"	1,798	E02640
Mac (Mac)	3.5"	2,518	E02641
MS Excel(Mac)	3.5"	2,518	E02642
MS Word (Mac)	3.5"	2,518	E02643
PageMaker (Mac)	3.5"	2,518	E02644
Typing Instructor/Mac	3.5"	1,798	E02645
Multimedia(Win & Mac)	CD-ROM	3,598	E02646
Multimedia Typing Instructor/Win	CD-ROM	1,798	E02647

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Type	Price	RQS No
Ami Pro/Win	3.5"	3,598	E02648
cc:Mail (Win)	3.5"	3,598	E02649
Lotus 1-2-3/Win	3.5"	3,598	E02650
Lotus Approach/Win	3.5"	3,598	E02651
Lotus Freelance/Win	3.5"	3,598	E02652
MS Access/Win	3.5"	3,598	E02653
MS Excel/Win	3.5"	3,598	E02654
MS Mail/Win	3.5"	3,598	E02655
MS Word/Win	3.5"	3,598	E02656
PowerPoint/Win	3.5"	3,598	E02657
Win/Win	3.5"	3,598	E02658
WordPerfect/Win	3.5"	3,598	E02659
MS Office/Win	3.5"	13,140	E02660
Lotus Smartsuite/Win	3.5"	13,140	E02661

MEMORY MANAGEMENT

Product	Developer	Price	RQS No
Cleansweep	Quarterdeck	2,890	E021531
DESQVIEW/X	Quarterdeck	13,890	E021525
DESQVIEW	Quarterdeck	4,990	E021528
DESQVIEW/386	Quarterdeck	7,690	E021529
QEMM 7.1	Quarterdeck	4,990	E021524

MS DEVELOPMENT TOOLS

Professional Basic for MS-DOS 7.10	18,720	E02448
Quick Basic for MS-DOS 4.50	7,530	E02449
Visual Basic for Win 4.00 Update	2,660	E02450
Visual Basic for Win 4.00	5,320	E02451
Visual Basic for MS-DOS 1.00	7,530	E02452
Visual Basic for MS-DOS AE 1.00	1,890	E02453
Visual Basic for Win 3.00 Mul 10 User AE	11,310	E02454
Visual Basic Pro for Win 3.00 CompUpg (CD-Rom)	11,150	E02458
Visual FoxPro for Win 3.00 Upg (3.5")	5,550	E02460
FoxPro for Mac 2.60 AE (3.5") IntlEng (A)	4,880	E02461

OPERATING SYSTEMS & NETWORKING

Win NT Server 3.51	Microsoft	41,030	E021775
Win NT Client 3.5 MLP	Microsoft	2,050	E021777
Win NT Client 3.5 20 User MLP	Microsoft	32,850	E021778
Win NT Workstation 3.5	Microsoft	17,820	E021813
Win NT Workstation 3.5 MLP	Microsoft	15,130	E021814
Win NT Workstation 3.5 20 User MLP	Microsoft	285,120	E021815
MS DOS 6.22 RUP	Microsoft	2,050	E021897
MS DOS 6.22 RUP 20 user MLP	Microsoft	32,770	E021899
Win for Workgroup 3.11	Microsoft	5,810	E021900
Win for Workgroup 3.11 MLP	Microsoft	5,030	E021901
Win for Workgroup 3.11 20 user MLP	Microsoft	93,100	E021902
Win 95	Microsoft	6,770	E021906
Win 95 MLP	Microsoft	6,190	E021907
Win 95 Version Update	Microsoft	4,670	E021908
Personal NetWare	Novell	3,950	E021658
Novell DOS 7	Novell	2,950	E021659
NetWare 3.12 5 Users	Novell	35,950	E021660
NetWare 3.12 25 Users	Novell	118,950	E021661
NetWare 3.12 50 Users	Novell	159,950	E021662
NetWare SFT 4.1 Upto 100 users	Novell	47,950	E021663
NetWare 4.1 5 User CD	Novell	35,950	E021664
NetWare 4.1 25 User CD	Novell	118,950	E021665
NetWare 4.1 50 User CD	Novell	159,950	E021666
SCO Desktop System 1 user CD	SCO	46,800	E021667
SCO Enterprise System 5 user CD	SCO	76,400	E021668
SCO Development System	SCO	46,800	E021669
SCO Openserver 10 user Host/Server	SCO	30,000	E021670
SCO Openserver 25 user Host/Server	SCO	60,400	E021671

PROGRAMMING TOOLS AND LANGUAGES

Borland C++ 4.5 DB Tools Super Pack	Borland	41,950	E021520
Borland C++ 4.5 DOS	Borland	19,950	E021521
Borland C++ 4.5 Win NT	Borland	11,950	E021522
Borland C++ 4.5 and Database Tools	Borland	28,950	E021523
Borland DatabaseEngine for Win	Borland	15,950	E021524
Borland Visual Solution Pack	Borland	3,950	E021525
Borland Power Pack for DOS	Borland	3,950	E021526
Runtime Library Source Code	Borland	3,950	E021527
Turbo Assembler DOS	Borland	3,950	E021528
w/ Turbo Brief for DOS	Borland	4,950	E021529
Borland Pascal 7 with Objects DOS/Win	Borland	19,950	E021530
Turbo C++ 3.0 for DOS	Borland	6,950	E021531
Turbo C++ VisualEdition for Win	Borland	6,950	E021532
Turbo Pascal 7.0 DOS	Borland	6,950	E021533
Borland SQL Link for Win	Borland	3,950	E021534
SQL Programmer Toolkit for Win NT 4.21	Microsoft	25,570	E021535
Multimedia Toolkit for Win	Microsoft	12,330	E021536

PROJECT MANAGEMENT

MS Project 4.0 DOS	Microsoft	16,480	E021537
MS Project 4.0 Win	Microsoft	23,140	E021538
MS Project for Win 95	Microsoft	23,440	E021539

SPREADSHEETS

Lotus 1-2-3 2.4	Lotus	12,000	E021540
Lotus 1-2-3 2.4 5 user	Lotus	48,000	E021541
Lotus 1-2-3 4.0	Lotus	13,500	E021542
Lotus 1-2-3 4.0 5 user	Lotus	54,000	E021543
Lotus 1-2-3 5.0	Lotus	12,000	E021544
Excel 5.0 Win	Microsoft	15,390	E021545
Excel for Win'95	Microsoft	15,390	E021546
Quattro Pro 5.5 DOS	Novell	2,950	E021547
Quattro Pro 5.5 DOS 10 user	Novell	29,950	E021548

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SUITES

Product	Developer	Price	RQS No
ClarisWorks 3.0 Win	Claris	5,950	E021760
Netsuite Desktop	Lotus	24,000	E021589
Lotus SmartSuite 3.0 (Disks & CD)	Lotus	19,000	E021560
Lotus SmartSuite 3.0 5 user	Lotus	72,500	E021561
Lotus SmartSuite 3.0 10 user	Lotus	135,000	E021562
Office 4.2 Std	Microsoft	18,500	E021860
Office 4.3 Pro	Microsoft	23,500	E021862
Works for DOS 3.0	Microsoft	4,330	E021881
Works for Win 3.0	Microsoft	4,330	E021884
Works for Win 95	Microsoft	3,460	E021885
PerfectOffice 3.0 Std	Novell	22,950	E021692
PerfectOffice 3.0 Pro	Novell	29,950	E021695

UTILITIES

Product	Developer	Price	RQS No
Visual Baler	Baler	14,590	E021537
Baler 6.0	Baler	14,590	E021538
Screen Dicer 1.0	Baler	43,990	E021543
Symat	Baler	16,990	E021544
PC Tools Pro DOS 9.0	Central Point	6,975	E02722
PC Tools Win 2.0	Central Point	6,975	E02723
CP Antivirus Dos 2.2	Central Point	4,500	E02724
CP Antivirus Win 2.0	Central Point	4,500	E02725
Xtree Tools for NetWare 1.5	Central Point	4,000	E02726
CP Antivirus for NetWare Dual 5 User 2.5	Central Point	19,950	E02727
CP Antivirus for NetWare Dual 10 User 2.5	Central Point	30,500	E02728
CP Antivirus for NetWare Dual 50 User 2.5	Central Point	110,000	E02729
Sidebar	Quarterdeck	2,890	E021530
PC Tools Pro Dos V9.0 3.5"/5.25"	Sonata	6,995	E02682
PC Tools Pro Dos V9.0 AE 3.5"	Sonata	5,000	E02683
PC Tools Win V2.0 3.5"	Sonata	6,995	E02684
Norton Utilities 8.0 DOS/WIN	Symantec	6,400	E02662
Norton Editor 2.0 3.5"	Symantec	3,600	E02663
Norton Commander 5.0 DOS	Symantec	3,600	E02664
Norton Backup 2.2 DOS 3.5"	Symantec	5,400	E02665
Norton Backup 3.0 WIN 3.5"	Symantec	6,400	E02666
Navi 10-User/NetWare 2.0 Dos/Win	Symantec	14,900	E02674
Navi 50-User/NetWare 2.0 Dos/Win	Symantec	161,000	E02675
Navi 10-User/Networks 2.0/ Win	Symantec	23,000	E02676
Navi 50-User/Networks 2.0/ Win	Symantec	108,000	E02677
Norton Utilities Administrator/ 5-User	Symantec	8,400	E02678
Norton Utilities Administrator/ 25-User	Symantec	36,500	E02679
Navi for Win 95 3.5"	Symantec	3,600	E02680
Norton Utilities/Win95 3.5"	Symantec	6,400	E02681
Norton Desktop for DOS/ WIN 3.0	Symantec	5,600	E02715
Norton Utilities 8.0	Symantec	5,600	E02716
Norton PC Anywhere DOS/ WIN 5.0	Symantec	6,200	E02717
Norton Antivirus 3.0	Symantec	4,050	E02720
Norton Antivirus for NetWare 2.0	Symantec	13,975	E02721
Nashpack Rel 3.0	TCS	5,495	E02712
Stellar 4.0	Unistal	3,990	E02713
Marg Darshak 1.0	Unistal	990	E02714

WORD PROCESSORS

Lotus Amipro	Lotus	4,750	E021557
Word 6.0 for DOS	Microsoft	15,390	E021871
Word 6.0 for Win	Microsoft	15,390	E021873
Word Assistant for Win 1.0	Microsoft	2,030	E021877
Proofing Tools for Win/DOS	Microsoft	3,080	E021878
WordPerfect 6.0 DOS	Novell	9,950	E021683
WordPerfect 6.1 Win	Novell	14,950	E021685
Wordstar 7.0	Wordstar	2,990	E02685
Wordstar 6.0	Wordstar	1,990	E02686
Wordstar 4.0	Wordstar	990	E02687
Wordstar 6.0 (Server Pack)	Wordstar	1,990	E02688
Wordstar 6.0 (Node)	Wordstar	1,500	E02689
Wordstar for Win 4.0	Wordstar	1,500	E02690
Wordstar for Win 4.0	Wordstar	4,995	E02691

Note: MLP: Multi-License Pack, AE: Academic Edition

Prices provided by:

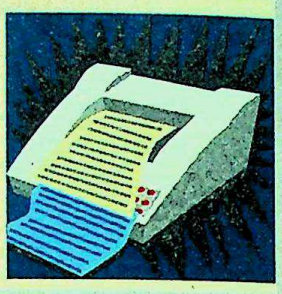
- **AutoDesk:** HOPE, B-1 Geetanjali Enclave, New Delhi 110017. Tel: 11-6851979, 6866441. Fax: 11-6866494
  Microsoft, SCO, Borland, Novell, Corel, Lotus, Datastorm and
- **Quarterdeck products:** Dynamic Computer Services, Sun Flower, 170 Lloyds Road, Gopalapuram, Madras 600086. Tel: 44-8272726, 8271684, 8272749;
  Binary Semantics, A-6, C Block Community Centre, Naraina Vihar, New Delhi 110028. Tel: 11-533544, 5415615 Fax: 11-5459406
- **Oracle, Frame, Microsoft, Adobe, Borland, Corel, Frame, Macromedia, Novell, Lotus, SCO, Symantec, Central Point, Delrina, Softek, Unistal, TCS:** Tulip Software, J-31, South Extension, Part-I, New Delhi 110049 Tel:11-4620410, 4694591 Fax: 11-4610292
- **Microsoft:** Microsoft, 24 Paharpur Business Centre, Nehru Place, New Delhi 110019.
- **Novell:** Onward Novell, Krislon House, 2nd Floor, Saki Vihar Road, Saki Naki, Bombay 400072. Tel: 22-8364180 Fax: 22-8364180
- **Lotus:** ITC, 28 Community Center, Basant Lok, Vasant Vihar, New Delhi 110057. Tel:11-6882556, 6872893. Fax: 11-6885339, 6872893
- **Oracle:** Oracle, 705 International Trade Tower, Nehru Place, New Delhi 110019. Tel: 11-6475286, 6475287. Fax: 11-6866494
- **Home Software:** Lee & Nee Softwares, 14B Camac Street, Calcutta 700017. Tel: 033-4015153. Fax: 033-2477359
  Innoserv Systems, X-29 Hauz Khas New Delhi 110016. Tel: 11-6863058, 6968626 Fax: 696911

◆ **Attention:** While all prices were current at the time of going to press, readers are advised to reconfirm them with the vendors before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PERIPHERALS



KEYBOARDS

Product	Price	RQS_No
Vintron 6251 CH/Cherry switches	1,000	E02227
Vintron 5263/membrane model	650	E02228
Vintron 2020C/Cherry switches	1,150	E02229
Ritika 1010C/Cherry switches	1,150	E02233
Ritika 2020C/Cherry switches	1,125	E02234

MODEMS

Product	Max Speed	Price	RQS NO.
AT&T Comsphere 3810	33,600	95,000	E021941
AT&T Comsphere 3920	33,600	125,000	E021942
AT&T Dataport 2001	14,400	28,000	E021943
Motorola Lifestyle V34	28,800	19,000+T	E021234
Motorola 3266 V32 bis	28,800	51,000+T	E021235
Motorola 3266 V34	28,800	102,500+T	E021236
Motorola 3266 V34 SDC	28,800	128,000+T	E021237
Mutitech MT2834ZDX	28,800	18,950	E021947
Mutitech MT2834BL	28,800	39,950	E021948
Multitech MT1432BL	14,400	29,950	E02796
Nomus 9624 SE	2,400	7,500	E021949
Nomus 9624 SA	2,400	7,500	E021950
Nomus 1414 PC	14,400	10,000	E021951
Nomus 1414 SI	14,400	17,500	E021952
Nomus 1414 SD	14,400	25,000	E021953
Onetics Triton 14400	14,400	11,080	E021946
Onetics Triton 28800/SA	28,800	22,960	E021945
TeamLink 2024E	2400	7,000	E021935
Teamlink 2144E	14,400	9,500	E021936
USR Courier V.34	28,800	40,500	E021931
USR Sportster V.34	28,800	21,500	E021932
USR Sportster SP14400	14,400	13,500	E021933
USR PCMCIA Fax Modem	14,400	17,500	E021934
ZyXel Elite 2864	28,800	30,950	E021944
Sportster SP 28800 (E)	28,800	22,500	E02383
Sportster SP 28800 (I)	28,800	19,500	E02384
Sportster SP 14400 (E)	14,400	13,500	E02385
Sportster SP 14400 (I)	14,400	11,500	E02386
Sportster SI 14400 (E)	14,400	8,500	E02387
Sportster VI 14400 voice	14,400	17,500	E02388
Sportster PCMCIA World Port V.32 bis		17,500	E02389
Courier V.34	28,800	43,500	E02390
Microsense 14400 Data/Fax	14,400	11,500	E02391
Microsense 28800 Data/Fax	28,800	17,500	E02392

Note: Delrina software (DOS/Win) is supplied with US Robotics & Microsense modems

MONITORS

Product	Price	RQS No
Vintron HCN-28/NI/.28 dpi/14" c	11,500	E0223[illegible]
Vintron HCI-28/I/.28dpi/14" c	11,100	E0223[illegible]
Vintron First VGA Monitor/m	3,125	E0223[illegible]
Ritika RCK 1421/I/.28 dpi/14" c	10,750	E0223[illegible]
Ritika RCK 1441/NI/.28dpi/14" Green	11,350	E0223[illegible]
Vintron Dual Frequency Monitor	2,875	E0224[illegible]
Vintron Ultra VGA/m/a	3,400	E0225[illegible]

Note: m-monochrome; **a**-anti-glare; **c**: color; **NI**: non-interlaced; **I**: Interlaced

PLOTTERS

HP DesignJet 230(A1/D)/m	104,500	E0211[illegible]
HP DesignJet 230 (A0/E)/m	140,500	E0211[illegible]
HP DesignJet 250C(A1/D)/c	130,000	E0211[illegible]
HP DesignJet 250C(A0/E)/c	175,800	E0211[illegible]
HP DesignJet 600 (A1/D)/m	193,500	E0211[illegible]
HP DesignJet 600 (A0/E)/m	228,800	E0211[illegible]

Note: All enhanced mode plotters w/4MB RAM and 600 dpi resolution. **m**-monochrome, **c**--color, **e**--enhanced mode

POINTING DEVICES

Genius Easy Mouse	422	E0213[illegible]
Genius Mouse One	672	E0213[illegible]
Genius Mouse Too	800	E0213[illegible]
Genius Mouse 3	772	E0213[illegible]
Genius Cordless Mouse	2,835	E0213[illegible]
Genius TrackBall	1,859	E0213[illegible]
Genius Joystick	658	E0213[illegible]
Primax Mouse I Musige	486	E0214[illegible]
Primax Mouse II Musige	701	E0214[illegible]
Primax Echo Mouse IV	379	E0225[illegible]
Logitech First Mouse	825	E0225[illegible]
Logitech Mouseman Combo	2,300	E0225[illegible]
Logitech Mouseman Cordless	6,500	E0225[illegible]
Logitech Trackman Portable	2,150	E0225[illegible]
Logitech Trackman II	2,500	E0225[illegible]
Vintron Mouse MD-14	575	E0225[illegible]
Logitech Dexxa Mouse	525	E0225[illegible]
Logitech Cyberman	5,500	E0225[illegible]
Logitech Kidz Mouse	1,995	E0225[illegible]
Logitech Mouseman Sensa	2,995	E0225[illegible]
Logitech Trackman Voyager	2,995	E0225[illegible]
Logitech Trackman Live	7,995	E0225[illegible]
Logitech Trackman Marble	4,495	E0225[illegible]
Logitech Trackman Vista	3,795	E0225[illegible]

CC-0. In Public Domain. PC Quest Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DQ TV

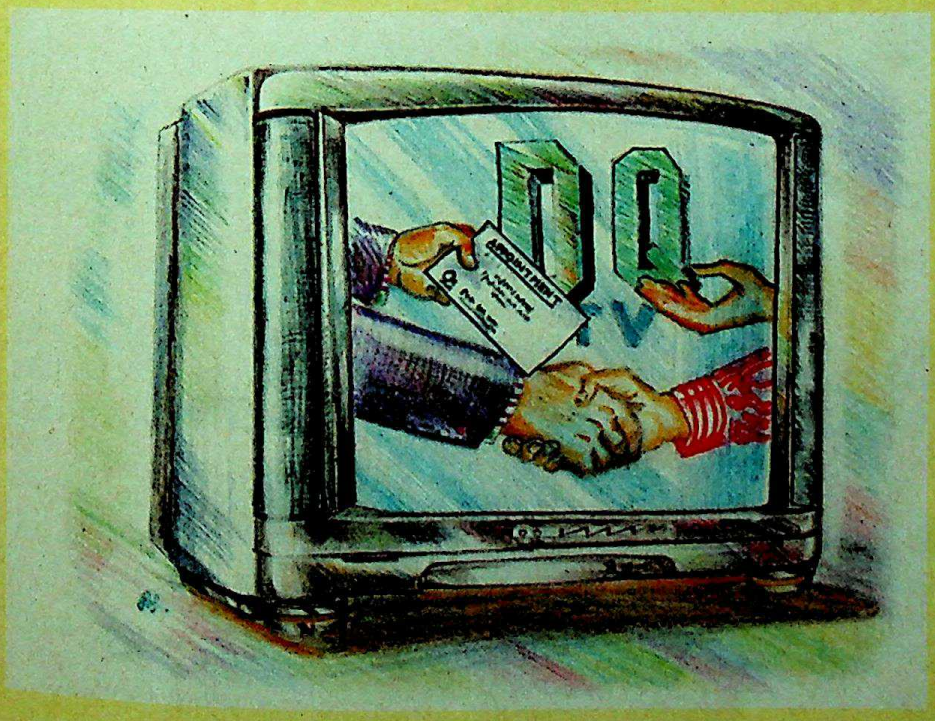
Presents

NIIT
COMPUTER CAREERS

**Do you want to plan a career in the computer industry?
Are you keen on knowing job opportunities in
Information Technology**

Then don't miss

NIIT COMPUTER CAREERS



**On Doordarshan Metro Channel
Every Wednesday at 8.30 AM**

COMPUTER CAREERS is sponsored by NIIT LIMITED

Digitized by Arya Samaj Foundation Chennai and eGangotri

NETWORK INTERFACE ADAPTERS

FROM

intel®

A complete family of Ethernet network interface adapters offering easy management and exceptional value

1 Intel EtherExpress™ PRO/10 LAN Adapters	2 Intel EtherExpress™ PRO/100 LAN Adapters	3 Intel EtherExpress™ FLASH 32 LAN Adapters	4 Intel EtherExpress™ MCA LAN Adapters

EXCLUSIVE FEATURES FOR EXTRA-ORDINARY PERFORMANCE

New Flash memory for easy management and one-step installation

Remote boot software

Centralized drive up date

Pre-boot virus protection

On-board PC Configuration history

***Also available: A family of* LANDesk™ Management Softwares & NetportExpress™ Print Servers**

THE ASSURANCE OF PRIYA

PRIYA INTERNATIONAL LIMITED, THE AUTHORISED DISTRIBUTOR FOR intel., BRINGS YOU THE GUARANTEE OF GENUINE QUALITY, PROMPT SERVICE, TECHNICAL SUPPORT AND PRODUCT WARRANTY.

PRIYA, THE COMPANY THAT BRINGS YOU THE LATEST HI-TECH PRODUCTS AT AFFORDABLE PRICES.

NOW STOCKS AVAILABLE FROM OUR LOCAL OUTLETS ALSO.

Priya GROUP

VALUABLE PRODUCTS - INVALUABLE SERVICE.

DEALER ENQUIRIES SOLICITED

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 285 4037

Branch Offices: **Bangalore:** Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422378, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

**The Logos and Trade Marks shown above are of their respective owners.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PRINTERS: DOT MATRIX

Product	Price	RQS No
Epson LX 300/9 p/80 c/264 cps	9,900	E021196
Epson FX 1000/9 p/136 c/240 cps	14,375	E021197
Epson FX 1050/9 p/136 c/290 cps	17,500	E021198
Epson LQ 1020+/24 p/136 c/289 cps	25,625	E021199
Epson LQ 1170/24 p/136 c/289 cps	30,000	E021200
Epson DFX 5000+/9 p/155 c/555 cps	60,000	E021201
Epson DFX 8000/9 p/136 c/1066 cps	148,000	E021202
TVSE MSP 145Plus/9 p/132 c	13,995+T	E021241
TVSE MSP 155/9 p/132 c	17,995+T	E021242
TVSE HD 6595/9 p/132 c	27,495+T	E021243
TVSE HD 6045/24 p/136 c	36,495+T	E02786
TVSE HD 6590/9 p/80 c	23,995+T	E02787
TVSE HD 6040/24 p/80 c	28,995+T	E02788
TVSE HD 5650/24 p/106 c	85,000+T	E02789
TVSE HD 5000/18 p/136 c	98,895+T	E02790
TVSE MSP 240/9 p/80 c	8,995+T	E021244
TVSE NOVO 130/9 p/80 c	7,295+T	E021245
TVSE NOVO 230/24p/80 c	10,495	E02782
TVSE Calligra Q10/24 p/80c	14,995	E02783
TVSE Calligra Q20/24p/80c	16,995	E02784
TVSE Calligra Q25/24 p/136 c	22,495+T	E021246
TVSE Calligra Q35/24p/136 c	27,995+T	E02785
Wipro LX 800/9 p/80 c	9,350	E021261
Wipro LX 300/9 p/80 c	9,800	E021262
Wipro LQ 100/24 p/80 c	14,200	E021263
Wipro LQ 300/24 p/80 c	15,600	E021264
*WiproEX 1050/9 p/132 c	18,500	E021265
Wipro FX 1170/9 p/132 c	37,700	E021266
*Wipro LX 1050/9 p/132 c	17,100	E021267
Wipro LQ 1050+/24 p/132 c	26,000	E021268
Wipro LQ 1170/24 p/132 c	39,270	E021269
*Wipro LQ 1070/24 p/132 c	26,650	E021270

Note: T-Tax, p--pins, c—columns

PRINTERS: INKJET

Apple Style Writer 1200	20,500	E021335
Apple Color StyleWriter 2200	30,200	E021336
Apple Apple Color StyleWriter 2400	34,300	E021337
Apple Color StyleWriter Pro	32,500	E021338
HP DeskJet 600/600 d/512 kB	18,000	E021171
HP DeskWriter 600/600 d/512 kB	18,000	E021174
HP DeskJet 850C/600 d/1 MB	28,889	E021179
HP DeskJet 1600C/8 p/600 d/4 MB	74,400	E021182
HP DeskJet 1600CM/8 p/600 d/6 MB	108,500	E021183
Epson Stylus 800 m	16,100	E021250
Epson Stylus 1000/A2 m	41,500	E021251
Epson Stylus 820/720 d/c	21,700	E021252
Epson Stylus Color IIS/720 d/c	26,500	E021253
Epson Stylus Color II/720 d/c	31,500	E021254
Epson Stylus Pro/720 d/c	44,500	E021255
Epson Stylus Pro XL/720 d/A3 c	131,000	E021256
Olivetti JP70/80col/3ppm/portable	20,400	E02779
Olivetti JP170/80col/3ppm	16,433	E02780
Olivetti JP470/80col/5ppm	25,500	E02781
TVSE NOVO 300/2ppm	9,995	E02791
TVSE Impress P20/page printer/4ppm 29,995	E02792	

Note: d-dpi, c--color, m—monochrome, p--pages per minute

PRINTERS: LASER

Product	Price	RQS No
Apple LaserWriter 4/600	55,000	E021339
Apple LaserWriter Select 360	75,000	E021340
Apple LaserWriter 16/600 PS	150,000	E021342
Apple QuickTake 150 for Mac	38,900	E021343
Apple Color LaserWriter 12/600	412,500	E021345
HP LaserJet 4+/12 p/600 d/2 MB	94,350	E021163
HP LaserJet LJ 4M+/12 p/600 d	127,500	E021164
HP LaserJet LJ 4V/16 p/600 d	130,050	E021167
HP LaserJet LJ 4MV/16 p/600 d	188,700	E021168
TVSE Impress P20	29,995+T	E021247
EpsonEPL 3000	34,000	E021248
EpsonEPL 9000 A3 Laser	172,000	E021249

Note: p--pages per minute, d--dpi

Prices Supplied By:

- **Apple:** Apple Computers International, Suite 101, The Oberoi, Dr Zakir Hussain Marg, New Delhi 110003. Tel: 11-4363030. Fax: 11-4362939
- **AT&T**: Crompton Greaves, 8-E Rani Jhansi Road, Jhandewala Extension, New Delhi 110055. Tel: 11-3558237, 3558238. Fax: 11-7533038
- **Genius & Primax:** Vertex, 105 Aradhana Colony Apartments, RK Puram Sector XIII, New Delhi 110066. Tel: 6116768, 6116769 Fax: 11-6116769, 6468797
- **Hewlett-Packard**, 24 Paharpur Business Centre, Nehru Place, New Delhi-19. Tel: 11-6472311, 6472328. Fax: 11-6461117
- **Logitech/APC/Ritika:** Vintron, F-34 Okhla Industrial Area, Phase 1, New Delhi 110020. Tel: 011-6814520, 6813680, 6811980. Fax: 011-6810460
- ***APC**: Onward Technologies, Krishna House, 2nd Floor, Saki Vihar Road, Saki Naka, Bombay 400072 Tel: 22-8362097
- **Modi Olivetti**, Punj Lloyd House, 17-18 Nehru Place, New Delhi 110019. Tel: 11-6427811.
- **Motorola** Information Systems, 108, Gavipuram Guttahlli, Off Bull Temple Road, Bangalore 560019 Tel: 80-6612973, 6612974 Fax: 80-6612977
- **Multitech Computers**, C-71, Anand Niketan, New Delhi 110021. Tel: 11-6886948, 6872396
- **Nomus Comm Systems**, S-19, National Plaza, RC Dutt Road, Baroda 390005. Tel: 265-327734, 327738. Fax: 265-333156
- **Onetics:** Total Networking Solutions, Suite # 180-184, The Claridges Hotel, 12, Aurangzeb Road, New Delhi 110011 Tel: 11-3010211, 3010604
- **TeamEngineers**, 2-2-647/227/C, CE Colony, New Nallakunta, Hyderabad 500013. Tel: 40-7614412. Fax: 40-7601728
- **TVS Electronics**, 10-B Phase I, Peenya Industrial Area, Bangalore 560058. Tel: 80-8395000. Fax: 80-8396334
- **Aegis**: see TVS Electronics, Bangalore.
- **US Robotics:** Microsense Computers, #1East Of Kailash, New Delhi 110065. Tel: 6410134, 6470619
- **Wipro & Epson**: Wipro Infotech, 88 MG Road, Bangalore 560080. Tel: 80-211141. Fax: 80-2270378
- **Epson:** Reddington, SPL Gundy House, 95 Mount Road, Madras 600032. Tel: 44-2353313 Fax: 44-2352790
- **ZyXel**: XON Communications, 19 Casa Major Road, Madras 600008. Tel: 44-8260124, 82582336. Fax: 44-8283226

◆ **Attention:** While all prices were current at the time of going to press, readers are advised to reconfirm them with the vendors before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SCANNERS

Product	Price	RQS No
Genius Scanmate 32	4,000	E021380
Genius Easy Scan 256	5,500	E021381
Genius Scanmate Color	11,500	E021382
Genius Color Page I	36,000	E021383
Genius Color Page II	48,000	E021384
Genius Fast Reader	18,000	E021385
HP ScanJet 4s	23,863	E02797
HP ScanJet 4c	66,145	E02798
HP 4si(Network-Ethernet)	169,789	E02799
HP ScanJet 4si(Network-Tokenring)	180,882	E02800
Primax SE42IX/HS	4,000	E021407
Primax SE42IG/HS	5,500	E021408
Primax SM403C-P/MS	18,500	E021409
Primax SP311/Datapen	14,300	E021410
Primax Deskscan/Color FS	34,320	E021412
Logitech Scanman 32	5,200	E02264
Logitech Scanman 256	7,650	E02265
Logitech Scanman Easytouch	10,750	E02266
Logitech Scanman Color	13,900	E02267
Logitech Scanman Powerpage	29,000	E02268
Dexxa GS 32 Scanner	4,900	E02269
Dexxa GS 256 Scanner	7,500	E02270

Note: HS—Hand Scanner, **MS**—Mobile Scanner, **FS**—Flatbed Scanner

UPSS

Product	Rating	Price	RQS No
APC BK 250I	250VA	7,950	E02237
APC BK 400I	400VA	12,350	E02238
APC BK 600I	600VA	15,500	E02239
APC BK 900I	900VA	28,050	E02240
APC BK 1250I	1250VA	36,250	E02241
APC BP 280I	280VA	9,750	E02242
APC BP 420I	420VA	15,500	E02243
APC BP 650I	650VA	23,450	E02244
APC AP 600I	600VA	28,250	E02245
APC AP 900I	900VA	44,900	E02246
APC AP 2000I	2000VA	99,000	E02247
*AP600I	600VA	28,650	E02421
*AP900I	900VA	45,000	E02422
*AP1250I	1250VA	60,500	E02423
*AP2000I	2000VA	94,500	E02424
*AP600XLI	600VA	63,750	E02425
*AP900XLI	900VA	73,350	E02426
*BP280I	280VA	11,200	E02429
*BP420I	420VA	17,250	E02431
*BP650I	650VA	24,000	E02432
*BP1000I	1000VA	40,000	E02433
*BP1400I	1400VA	51,500	E02434
*BK250I	250VA	9,250	E02435
*BK400I	400VA	13,950	E02436
*BK600I	600VA	18,900	E02437
*BK900I	900VA	32,600	E02438
*BK1250I	1250VA	42,000	E02439
*MX3000W	3000VA	215,000	E02440
*MX5000W	5000VA	297,000	E02441
Powerchute Software AP 9001/Mac		4,300	E02445
AP 9007/Plus for Win		3,000	E02446
AP 9009/Plus for Win NT		4,300	E02447
Aegis/Online	1000VA	44,995+T	E02793
Aegis/Online	3000VA	89,995+T	E02794
Aegis/Online	5000VA	189,995+T	E02795

OTHERS

Logitech Soundman 16	4,200	E02271
Logitech Soundman Wave	13,900	E02272
Logitech Fotoman Pixture	83,995	E02301
Logitech Scanman Pagerscan	27,995	E02302
Logitech Wingman Light	995	E02303
Logitech Wingman	1,995	E02304
Logitech Wingman Extreme	2,495	E02305
Logitech Thunder Pad	995	E02306

HARDWARE

DESKTOPS

Product	Price	RQS NO
APPLE		
Mac PowerBook 520/8 MB/240 MB HDD/Claris Organizer	139,400	E021277
Mac PowerBook 520c/8 MB/240 MB HDD/Claris Organizer	181,200	E021278
Mac PowerBook 540c/8 MB/320 MB HDD/Claris Organizer	285,000	E021279
Mac PowerBook 150/4 MB/250 MB HDD/Claris Organizer	83,600	E021280
PowerBook Duo 280c/12/320 MB	230,000	E021281
Mac LC 475/4 MB/250 MB HDD/mono VGA	48,600	E021282

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

power

hungry?

you're looking for a little more power to your PC, you couldn't do better than to tune in to us. PC Quest is a vibrant, alive network that gives you helpful inputs on everything from choosing the right package to the best peripherals available. So to get more out of your PC, start with getting a PC Quest.

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

MORE POWER TO THE COMPUTER USER

CC-0. In Public Domain. Panini Kanyi Collection. Panjab U

Digitized by Arya Samaj Foundation Chennai and eGangotri

YES, I would like to avail of this offer & become a subscriber of PC Quest. I want to subscribe for:

	TERM	STAND PRICE	YOU PAY	YOU SAVE
❑	3 Years	Rs. 900/-	Rs. 630/-	Rs. 215/-
❑	2 Years	Rs. 600/-	Rs. 450/-	Rs. 150/-
❑	1 Year	Rs. 300/-	Rs. 240/-	Rs. 60/-

Foreign Subscription Rates
By Air Mail
1 Year US $ 60/-

Enclosed is my cheque/DD No. _____ dated _____
for Rs. _____ drawn in favour of **CYBER MEDIA (INDIA) LTD.**
(Add Rs. 15/- for outstation cheques)

From :

Name: _____ Designation : _____
Organisation _____
Address : _____
_____ City: _____ Pin: _____
Phone: _____ Fax: _____

Mail Back to : Cyber Media (India) Ltd., 701, Meghdoot Building, 94, Nehru Place, New Delhi-110019.
Ph. : 6416315, 6476664, 6411692. Fax : 6476664.

Please help us get to know more about your needs by filling in this form.

A. YOUR JOB TITLE

- ■ MD/President/CEO/Director
- ■ Manager/Asst. Manager
- ■ Cust. Engg./Executive
- ■ Any other_____
- ■ VP/GM
- ■ Analyst/Programmer
- ■ Consultant/Trainer

B. YOUR WORK AREA

- ■ MIS/Computers/Communications
- ■ Marketing/Sales/Gen. Mgmt.
- ■ Any other_____
- ■ Purchase/Finance/Admn.
- ■ Education/Training

C. YOU WORK FOR

- ■ An. I.T. Company
- **WHICH IS IN...**
- ■ Govt. Sector
- ■ Private Sector
- ■ MNC
- ■ A User Company
- ■ Public Sector
- ■ Education / R&D
- ■ Any other_____

D. IF YOU WORK FOR AN I.T. COMPANY, IT IS PRIMARILY IN

- ■ Hardware
- ■ Distributor/Retailer/Dealer
- ■ Training/Consultancy
- ■ Software Development
- ■ Peripherals
- ■ Any other_____

E. YOUR ROLE IN PURCHASE OF COMPUTERS

- ■ Approving
- ■ Defining Specifications
- ■ None
- ■ Recommending
- ■ Purchase Formalities

F. PLANNED PURCHASE (NEXT ONE YEAR)

- ■ PCs
- ■ Lan/Data Comm. Equipment
- ■ Software Packages
- ■ Any other_____
- ■ Servers
- ■ Custom Software
- ■ Peripherals

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Mac LC 575/8 MB/250 MB HDD	96,200	E021291
Mac LC 630/8 MB/350 MB HDD	96,200	E021292
Performa 580/8 MB/500 MB HDD	97,500	E021296
Performa 580/8 MB/500 MB HDD/CD-ROM	118,400	E021297
Performa 5200/8 MB/500 MB HDD/CD-ROM	151,300	E021298
Performa 6200/8 MB/500 MB HDD	110,000	E021299
Performa 6200/8 MB/500 MB HDD	130,600	E021300
Power Mac 6100/66/8 MB/500 MB HDD	115,000	E021306
Power Mac 6100/66/16 MB/500 MB HDD/multiscan monitor	127,600	E021307
Power Mac 7100/80AV/16 MB/700 MB HDD/CD-ROM/15" monitor	143,200	E021308
Power Mac 7100/80/16 MB/700 MB HDD/CD-ROM	213,900	E021309
Power Mac 8100/100/16 MB/700 MB HDD/CD-ROM	292,700	E021310
Power Mac 8100/100/16 MB/1 GB HDD/CD-ROM	348,800	E021311
Power Mac 8100/110/24 MB/2 GB HDD/CD-ROM	295,000	E021312
Power Mac 9500/132/32 MB/2 GB HDD/CD-ROM	492,100	E021313
Power Mac 9500/132/32 MB/2 GB HDD/CD-ROM	517,000	E021314
Power Mac 7200/90/16 MB/500 MB HDD/CD-ROM	166,700	E021315
Power Mac 7200/90/16 MB/1 GB HDD/CD-ROM	186,000	E021316
Power Mac 7500/100/16 MB/500 MB HDD/CD-ROM	162,400	E021317
Power Mac 8200/120/16 MB/2 GB HDD	240,000	E021318
Workgroup Server 8150/16 MB/1 GB/ CD-ROM	299,100	E021322

COMPAQ

Presario 944/486DX4-90/8 MB/535 MB HDD	140,700	E021413
Presario 962/Pentium-60/8 MB/535 MB HDD	174,400	E021414
Presario 972/Pentium-75/8 MB/725 MB HDD	159,400	E021415
Presario 510/486SX-33/4 MB/270 MB HDD	95,000	E021416
Presario 520/486SX2-66/4 MB/420 MB HDD	108,800	E021417
Presario 524/486SX2-66/4 MB/420 MB HDD	122,000	E021418
Presario 742/486DX4-90/8 MB/420 MB HDD	153,300	E021419

Note: Compaq config: 1.44 MB FDD, CD-ROM drive, SoundBlaster card, 2 speakers, 101 keyboard, SVGA color monitor, mouse, & internal fax-modem with MS-DOS 6.2, Win 3.1, TABWORKS, MS Works, MS Encarta

DTL FRONTLINE (BEANSTALK)

DTL 4100/486SX2/50/270 MB/m	48,707	E02750
DTL 4150/486SX2/50/270 MB/c	68,847	E02751
DTL 4300/486DX2/66/270 MB/c	78,917	E02752
DTL 4400/486DX2/66/270 MB/c/10 CD-ROMs	97,997	E02753
DTL 4600/486DX2/66/420 MB/c/20 CD-ROMs	108,597	E02754

Beanstalk config: MS DOS 6.22, Win for WorkGroups 3.11, Red Armor anti-virus, Free BBS subs for 6-months (4100, 4400, 4600). NIIT Training, Fastracc, MS Works (4300, 4400, 4600). BitFax & BitCom for Win (4400, 4600). 4400: Free BBS subs for 6-months, NIIT Training, Fastracc, MS Works, 10 CD-ROMs, 4600: Free BBS subs for 6-months, NIIT Training, Fastracc, MS Works, 20 CD-ROMs, BitFax & BitCom for Win

Product	Price	RQS No
SCT HOME		
SCT 10H/486DX2/4 MB RAM/735 HDD/VGA m	46,900	E02755
SCT 20H/Pentium/60/8MB RAM/735 MB HDD/SVGA m	59,900	E02756
SCT 30H/Pentium/75/8 MB RAM/735MB HDD/SVGA m/CD-ROMs	79,900	E02757
SCT 40H/Pentium/100/8 MB/1.08GB HDD/SVGA m/CD-ROMs	98,900	E02758

Note: Includes 1.44 MB FDD, MS Mouse, 101 keyboard, DOS 6.22, Win 3.11

SCT MULTIMEDIA		
SCT 100M/486 DX2/8 MB RAM/1.08 GB HDD/14" SVGA c/12 CD-ROMs	84,500	E02759
SCT 200M/Pentium/75/8 MB RAM/1.08 GB HDD/14" SVGA c/24 CD-ROMS	99,500	E02760
SCT 400M/Pentium/100/16MB RAM/2 GB HDD/15" VGA c/24 CD-ROMS	138,500	E02761

Note: Includes Fax-modem card, 1.44 MB FDD, 101 keyboard, MS mouse, with DOS 6.22, Win 3.11

CHAMPION		
Pentium/120/8MB RAM	75,000	E02762
Pentium/100/8MB	53,400	E02763
Pentium/90/8 MB	50,800	E02764
Pentium/60/8 MB	35,500	E02765
486 DX4/100/4 MB RAM	25,800	E02766
486 DX2/66/4 MB	22,500	E02767

Note: Includes 1.44 MB HDD, 101 keyboard, 400 dpi mouse, SVGA mono

IBM		
IBM PC 100/486DX4/100MHz/4 MB RAM/540 MB HDD	88,000	E02768
IBM PC 300/Pentium/100 MHZ/16MB RAM/850 MB HDD	165,000	E02769

Note: DOS/Win preloaded (PC100); DOS/Win, OS/2 Warp, Productivity/Asset Mgmt Tools (PC300)

HEWLETT-PACKARD		
VE 5/75/Pentium-75/8 MB/540 MB HDD	100,085	E021920
VL3 5/75/Pentium-75/8 MB/840 MB HDD	113,519	E021921
XM3 5/90/Pentium-90/8 MB/840 MB HDD	136,113	E021923
VE 4/66/486DX2-66/8 MB/840 MB HDD	90,925	E021922

Note: All HP machines ship with MS-DOS 6.22, Win for WorkGroups 3.11 & HP mouse

MODI OLIVETTI		
PCS30SX/386SX-40/2 MB/510 MB HDD	36,300	E021932
PCS40/486DX2-80/4 MB/540 MB HDD	49,500	E021933
PCS50/Pentium-75/8 MB/540 MB HD	92,400	E021934

TULIP		
Tulip Vision Line/486DX2/66/8MB/540MB	87,000	E02774
Tulip Vision Line/486DX4/100/8MB/540MB	90,000	E02775
Tulip workstation/486DX @/66/8MB RAM/No hard disk	78,000	E02776
Tulip Vision Line/WS/Pentium/75/8MB/540MB HDD/Mouse TulipPS/2	110,000	E02777

Note: c-SVGA color, m-Mono-VGA

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NOTEBOOKS

Product	Price	RQS No
MAGICBOOK		
MB 5 Plus/486DX2/66/4MB RAM/1.44 MB FDD/540 MB HDD/84 keys	1,20,000	E02770
MB 7/Pentium/90/540 MB HDD/1.44 MB FDD/84 keys	2,10,000	E02771
MB 8/486 DX/4 MB RAM/1.44 MB FDD/84 keys	1,85,000	E02772
MB 8 Plus/Pentium/90/8 MB RAM/540 MB HDD/1.44 MB FDD/84 keys	2,80,000	E02773
HEWLETT-PACKARD		
OmniBook 600/486DX2-50/4 MB/170 MB HDD	138,190	E021924
OmniBook 600/486DX2-50/8 MB/260 MB HDD	185,755	E021927
OmniBook 4000/486DX4-100/8 MB/340 MB HDD	176,350	E021928
OmniBook 4000/486DX4-100/8 MB/810 MB HDD	259,400	E021929
OmniBook 5000/Pentium-90/8 MB/1.2 GB HDD	434,720	E021930
OmniBook 5000/Pentium-90/32 MB/1.2 GB HDD	530,980	E021931
MODI OLIVETTI		
Echos48CP/486DX4-100/8MB/540 MB HDD/1.44 MB HDD/Dos/Win	263,867	E02778

Note: All HP notebooks ship with MS-DOS 6.22 & Win for Workgroups 3.11.

Prices provided by:

- **Apple Computers International**, Suite 101, The Oberoi, D... Hussain Marg, New Delhi 110003. Tel: 11-4363030. Fax: 11-43...
- **Champion** Computers, 306, Eros Apartments, 56, Nehru Place, ... Delhi 110019. Tel: 11-6426280, 6214751 **Fax:** 11-6479669
- **Compaq**: Tangerine, 307 Ansal Chambers, Bhikaji Cama Pl... New Delhi 110065.
- **HCL Frontline,** M-41, Greater Kailash-II Market, New Delhi 1...
  Tel: 11-6423503, 6424779
- **Hewlett-Packard**, 24 Paharpur Business Centre, Nehru Place, ... Delhi 1100019. Tel: 11-6472311, 6472328. Fax: 11-6461117
- **Magicbook:** Akash Electronics & Software, 14 Chirag Enclave, N... Delhi 110048. Tel: 011-6416003, 6416005, 6416007, 6224601. F... 011-6467690.
- **Modi Olivetti**, Punj Lloyd House, 17-18 Nehru Place, N... Delhi 110019. Tel: 11-6427811.
- **SCT** Computers, H-30, South Extn I, New Delhi 110... Tel: 11-4635733 Fax: 11-4632517
- **TISL,** TISL Tower, Golden Enclave, Airport Road, Bangalore 560... Tel: 80-5262355, 5267117
- **Tulip** Computers, V-13, Green Park Extn, New Delhi 110... Tel: 11-6964753

◆ **Attention:** While all prices were current at the time of going to pres... readers are advised to reconfirm them with the vendors bef... placing orders.

PC QUEST MARKETWATCH MONITOR USER FEEDBACK POLL

(Please photocopy this form and mail it to* Marketwatch Feedback, *506 Meghdoot, 94 Nehru Place, New Delhi 110019 or fax to 011-642-1229)

I use Pricewatch

☐ To stay aware of market trends ☐ To compare products and prices ☐ Assist in decision making

I find Pricewatch

☐ Comprehesive ☐ Insufficient ☐ Needs improvement

My suggestions are give below (1 word per box)

My Role

☐ Approving Purchases ☐ Making Purchases ☐ Recommending Purchases ☐ Defining Specifications

My Frequency of Purchases are

☐ Monthly ☐ Quarterly ☐ Half-Yearly ☐ Annual

Name: _____

Address: _____

City: _____ Pin: _____

Tel: _____ Fax: _____

E-Mail: _____

(Pl attach your visiting card)

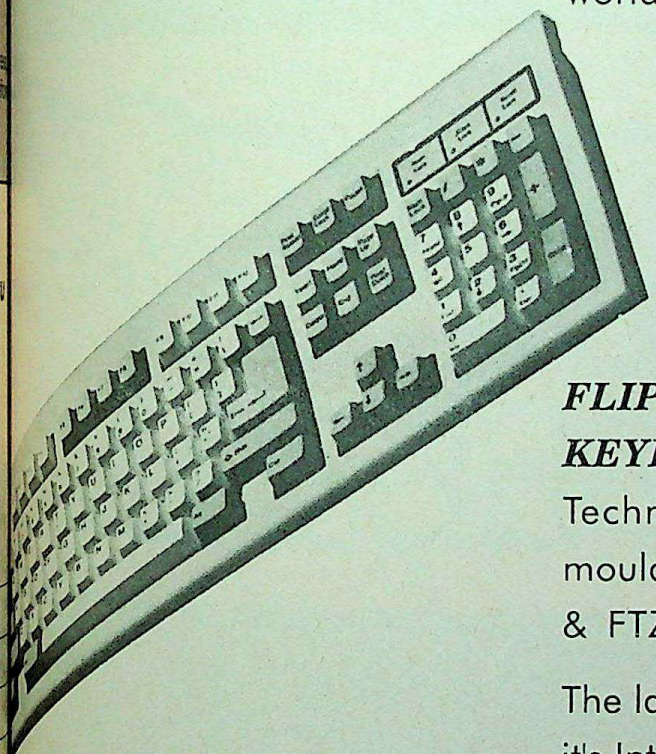
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

"SOME PEOPLE HAVE WAITED FOR FLIP-TOP-KEYBOARD™ TO FLOP FOR THE LAST 18 MONTHS"

THEY STILL WAIT IN VAIN !!

Membrane Technology has made it possible to produce high quality keyboards at low cost, making it accepted by 70% of worldwide users. Even leading companies like IBM*, COMPAQ* & APPLE* have commenced usage of Membrane keyboards.



SO WHY NOT YOU ?

FLIP-TOP is an ergonomically designed ***KEYBOARD*** using the latest Membrane Technology and double shot injection moulded keycaps. It conforms to UL, FCC & FTZ standards.

The large number of satisfied users endorse it's International Quality & Innovative Space Saving Concept.

Manufactured by : **INDUSTRIAL ADAPTERS,** 149, Guru Gobind Singh Ind. Estate, Western Express Highway, Goregaon (E), Bombay - 400 063. Tel. : 8732788 Fax : 022-6268105

Also at : **Western Region : AHMEDABAD** ★ Jaytronics : Tel. : 464546 / 461643 **BARODA** ★ Type House : Tel. : 328895 **BOMBAY** Supreme Micro Systems : Tel. : 5782160 / 5782753 **JAIPUR** ★ Computer Jyoti : Tel. : 514107 **NAGPUR** ★ Spectron Computers : 726927 / 723389 **PUNE** ★ The Hard Shop : Tel. : 423142 **RAJKOT** ★ Creative Computers : Tel. : 34861 **SURAT** ★ ICM Consultancies 423181 **Southern Region : BANGALORE** ★ Trinity Business Systems Pvt. Ltd. : Tel. : 645324 / 648029 ★ Arison Electronics : Tel. 643 / 642411 **CALICUT** ★ IC Soft : Tel. : 62139 **COCHIN** ★ Radha Electronics : Tel. : 366234 / 372436 **MADRAS** ★ Devraj Systems (Pvt.) Ltd. : Tel. : 8525856 **SECUNDERABAD** ★ Computer Valley : Tel. : 814025 **TRIVANDRUM** ★ Softec Computer : Tel. 695 **Northern Region : DELHI** ★ Computer Jyoti : Tel. : 2229681 ★ M.C. Modi & Co. : Tel. : 6461229 / 6431016

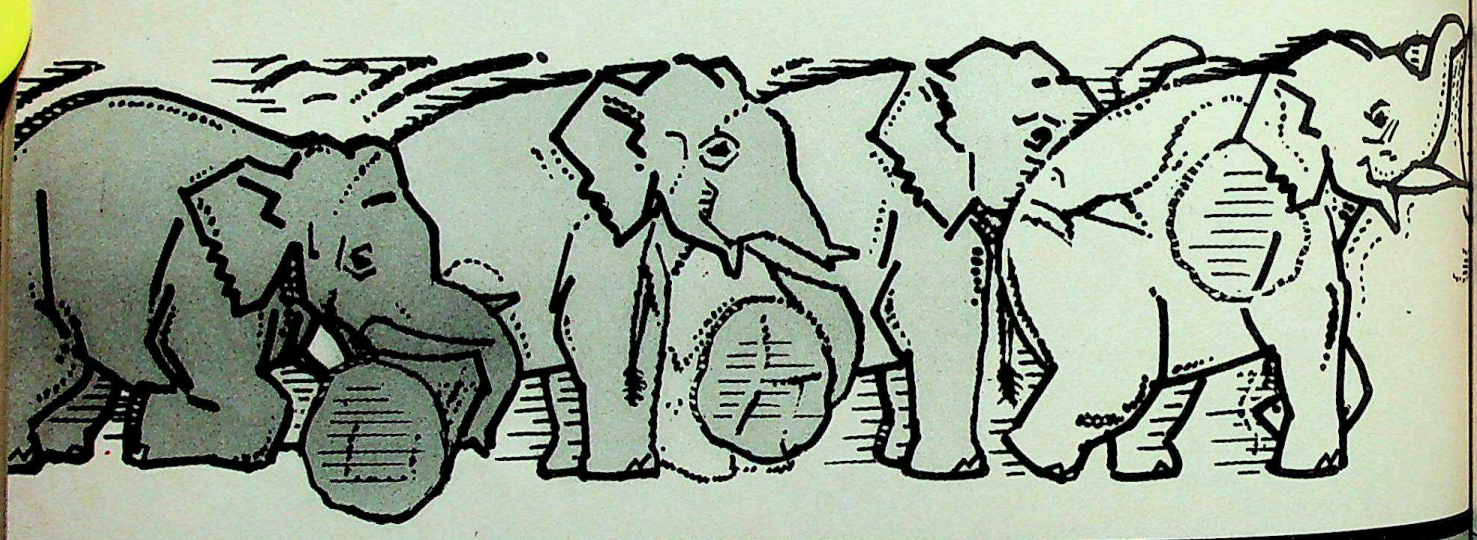
Dealer enquiries solicited

* Registered Trademarks for the respective companies.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

CC-0. Mumukshu Bhawan Varanasi Collection. eGangotri

What makes the Printronix Line Matrix printer



so tough and reliable ?

Ahmedabad (0272):*Kidiyoor* Tel: 441628 **Bangalore** (080): *Vinnie Thomas/Dennis Oomen* Tel: 574479 **Bhopal** (0755): *Roopesh Joshi* Tel: 565305, 563207, 563987 **Bombay** (022): *Jayant/L. Ramnath* Tel: 6323597,6323601-04 **Calcutta** (033): *L.A. Khan/Senthil Kumar* Tel: 2426591, 2428489, 2428491, 2425904 **Cochin** (0484): *Manoj Mathew* Tel: 311338, 312379, 310799, 317290 **Delhi** (011): *Prashant Kulkarni/Sudipto Sarkar* Tel: 6468451, 6473253/65/66 **Hyderabad** (040): *Sanjay Oberoi* Tel: 845196, 811478, 845840, 849717 **Madras** (044): *Nataraj/V.S. Gopalakrishnan* Tel: 4998084, 4997251, 499329[illegible] **Baroda** (0265) *Hardik Bhatia* Tel: 325356, 325659, 325541, 323381.

Digitized by Arya Samaj Foundation Chennai and eGangotri

Printronix printers are designed to work non-stop, withstanding all environment extremes. Their rugged steel body, spring steel hammers and carbide tips are specially built to endure heavy-duty printing. OEM's like HP, IBM have tested and chosen these products as part of their portfolio across the world. That's why when you buy Printronix printers, you buy peace of mind. Rest assured, your Printronix printer will go on and on, braving everything that comes its way.

THE PRINTRONIX EDGE

With an installed base of more than 400,000 users and a market share of more than 40 %, Printronix is clearly the world's leading Line Matrix printer company. Add to that 44 patents to its credit and you know who sets the standards in Line Matrix printing. That's why corporate giants like IBM, HP, DEC and Unisys rely only on the Printronix line.

THE WIPRO ADVANTAGE

Printronix is brought to you by Wipro : India's largest printer company. Only Wipro offers you a choice of printing technologies, a widespread dealer network and prompt after-sales service. When you buy a printer from a Wipro, you can be sure that you're getting the best value for your money.

PRESENTING

PRINTRONIX®

Line Matrix Printers

The Printronix line of printers:
- MVP : 200 lpm
- P3040 : 400 lpm
- P4280 : 800 lpm
- P9212 : 1200 lpm.

WIPRO PERIPHERALS

Better people
Better solutions.

Basappa Complex, 40/1A, Lavelle Road, Bangalore - 560 001.

HTA.8830.96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SOFTWARE

WebMate For The Net

Ampersand Software has released Webmate—a software that enhances the versatility of Netscape Navigator. Webmate provides a facility to maintain easy links to the user's favorite sites on the Internet.

Webmate allows you to organize your hot-lists with folders and sub-folders. The product also has a history feature to keep track of all sites visited. It also allows URLs to be dragged and dropped from an HTML document. NCSA Mosaic's INI files can be imported and hot-lists can be exported as HTML files or protected with passwords.

Webmate allows multiple users to use the same copy, with each user having a password. It is priced at Rs 350.

AMPERSAND SOFTWARE APPLICATIONS,
BANGALORE
TEL: 80-3334978, 3336173
FAX: 80-3333891

Reader Query Service #E0201

Axon's Business Software

Axon Computers has launched **AA+ Version 2.01**, a financial accounting software and **Trade Pack Version 2.01**, an inventory package with accounting and invoicing. AA+ allows the creation of bank reconciliation statements, comparative and comprehensive analysis reports, graphical analysis and merged accounts. It also allows macro substitution, multi-level passwords, a user definable tax setup and user configurable menus.

With the Trade Pack you can produce balance sheets, bills receivable and payable, credit/cash purchases and billing, general, purchase and sales journals, general sub-ledger folios, profit and loss accounts, sales purchase returns and trial balances.

AXON COMPUTERS,
COIMBATORE
TEL: 422-438843
FAX: 422-438843

Reader Query Service #E0202

Novell Releases LAN Workgroup Version 5

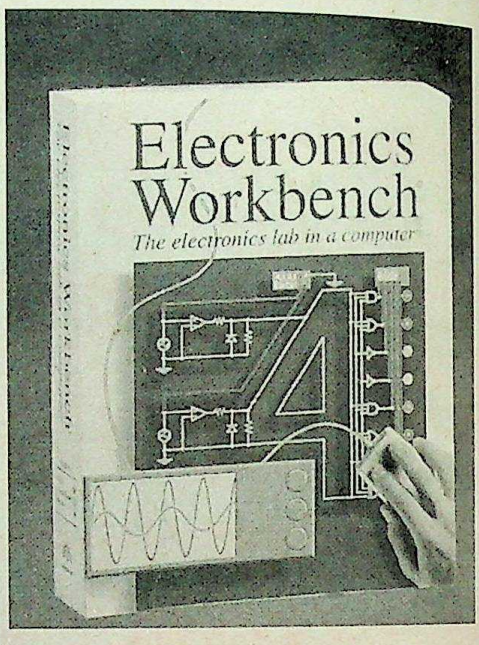
Novell has announced version 5 of its LAN WorkGroup for Windows and DOS products. This runs on NetWare 4 servers and gives Novell NetWare users a centralized access to information on both NetWare and TCP/IP networks, including UNIX systems and the Internet. Main features include Netscape Navigator—an Internet browser and news reader, and Windows Mailer, an interface for sending and receiving messages and files over TCP/IP networks. LAN WorkGroup 5 is installed once at the server and gives users access to several TCP/IP apps. It provides TCP/IP address assignment and administration thereby reducing the time and cost of system administration.

ONWARD NOVELL, BOMBAY
TEL: 22-8351995, 8360715
FAX: 22-8214203

Reader Query Service #E0204

Electronics Workbench From Interactive

Interactive Image Technologies has introduced tronics Workbench, which brings the electro and the computer closer. It has been designed ing in mind the needs of electronics students, who perform several experiments using equipment that always easily available or in working order. Elec Workbench lates a lab everything as it stro it caters to dent level libraries over 2,10 els to de circuits Other feat clude (scope, Bo ter, Functi erator, W erator, circuits. eter, Log lyzer and Converter



on products include PCB Export, which allows you circuit board designs in Electronics Workbench, which can later export to a popular PCBB netlist format.

TRIDENT SYSTEMS, NEW DELHI
TEL: 11-5787055
FAX: 11-5767055

Reader Query Service #E0208

Adobe's Web Authoring Tool

Wipro is distributing Adobe Pagemill, a new Web authoring software for the Mac. It simplifies the creation of Web pages by letting users create pages as they will appear in the Web browsers without ever viewing HTML code. This software eliminates the risk of losing data while converting text and graphics into HTML. Hypertext links can be created through drag-and-drop pr The system requires clude, a Mac runn System Software least 3 MB of free and a color display supports both Pow 68 kB Mac systems

WIPRO INFOTECH
BANGALORE
TEL: 80-5588422
FAX: 80-5586657

Reader Query Service

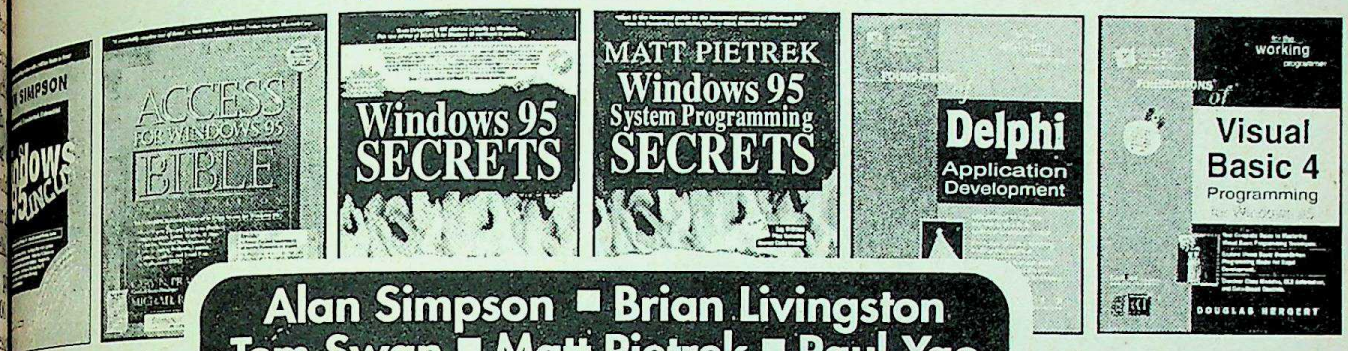
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PRESENTING

The Bibles of Windows '95

by the masters



Alan Simpson ■ Brian Livingston
Tom Swan ■ Matt Pietrek ■ Paul Yao

WINDOWS 95 UNCUT

reveals everything about Windows 95 from setup to The book serves as comprehensive tutorial/reference for who wants to use Windows 95

Pages • Price: Rs. 295, 375 (with 2 Disks), 450 (with CD-ROM)

WORD FOR WINDOWS 95 BIBLE

creating and reading WWW pages from word, DTP techniques into word documents, and formatting Provides extensive coverage of various templates.

Pages • Price: Rs. 325, 375 (with. Disk), 450 (with CD-ROM)

EXCEL FOR WINDOWS 95 BIBLE

coverage of Excel commands and functions including spreadsheets, creating and modifying charts and managing worksheets. Discusses customizing Excel, troubleshooting FAQ's and implementing macros in VB.

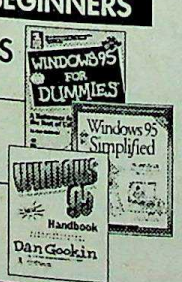
Pages • Price: Rs. 325, 395 (with Disk), 450 (with CD-ROM)

ACCESS FOR WINDOWS 95 BIBLE

creating and maintaining database tables and relationships, table reports, building multitable queries, creating macros pictures and graphics.

Big size 1150 Pages • Price: Rs. 425 (with Disk)

WINDOWS 95 BOOKS FOR BEGINNERS



WINDOWS 95 FOR DUMMIES
400 Pages • Price: Rs. 150/-

WINDOWS 95 SIMPLIFIED
240 Pages • Price: Rs. 150/-

WINDOWS 95 HANDBOOK
400 Pages • Price: Rs. 195/-

Whether a novice or an expert these **undisputed Windows 95 Champions** *guide you through the new system and software with ease. Choose the one suited to your requirement*

WINDOWS 95 SECRETS

Get access to features and capabilities which microsoft doesn't – and won't document. Make Windows your own with custom set-up, and run your favorite programs written for DOS.

Big size 800 Pages • Price: Rs. 295 (Book only) , 450 (with CD-ROM)

WORD FOR WINDOWS 95 SECRETS

Provides detailed descriptions of new features including Highlight, Internet, Assistant, Long File names, Address Books, Wizards. Discusses how to save time, cutomizing Word, use OLE and format formats.

Big size 800 Pages • Price: Rs. 325, 375 (with disk), 450 (with CD-ROM)

WINDOWS 95 Systems Programming SECRETS

This book digs into the internal details of Windows 95 and explains the relationship between Windows 95, Windows NT and WIN 32 to help you build stronger programs.

Big size 800 Pages • Price: Rs. 395 (with disk)

FOUNDATIONS OF DELPHI APPLICATION DEVELOPMENT

This book provides working programmers a complete guide to Delphi that helps create programs as powerful and efficient as ones written in C and C++

800 Page • Price: Rs. 345 (with disk), 450 (with CD-ROM)

FOUNDATIONS OF VISUAL BASIC 4 PROGRAMMING

This book is the ultimate source to discover the fundamentals for all of your future programming in the latest release of Visual Basic. It uses task approach to discuss every facet of Visual Basic.

800 Pages • Price: Rs. 325 (with Disk), 450 (with CD-ROM)

FOUNDATIONS OF VISUAL C++ PROGRAMMING FOR WINDOWS 95

This book addresses real world programming for all your future Visual C++ developments. Shows how to understand every facet of Visual C++ for Windows 95.

700 Pages • Price: Rs. 325 (with Disk)

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Ph: 3268292-93 • Fax: 91-3280567

Branches:
- **22/2 Mission Road, (Shama Rao's Compound) Bangalore-560027** Ph:2234025 Fax: 2240209
- **23-25 Zaoba Wadi, (Opp. VIP Showroom), Thakurdwar, Bombay-400002** • Ph: 2010941 Fax: 2053387
- **Khemka House, (Opp. Women's Hospital), Ashok Rajpath, Patna-800004** Ph: 653644

013/PCQ/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE

Power-Saving Printer Utility

Sparr Electronics has unveiled a utility called Printon which automatically turns on the printer when output data to the printer is detected. The utility also turns off the printer five minutes after printing stops. This remote power control of a printer not only saves power, but also protects the printer from premature ageing. Printon also has a built-in spike arrestor.

SPARR ELECTRONICS, BANGALORE
TEL: 80-3348346
FAX: 80-3348346

Reader Query Service #E0209

Modi Olivetti's Multikiosk 2000 And Active Badge

Modi Olivetti has launched a customer interface system, Multikiosk 2000. These systems offer multimedia solutions for providing customers easy access to information using touch-screen technology. This system can also be integrated into an ISDN network for real-time applications. These systems will be very useful in vertical markets such as banking and insurance, transportation and tourism.

Modi Olivetti has also launched Active Badge, a personnel tracking system. It allows an easy flow of information within the workplace and among its occupants. Active Badge uses an infra-red ray to track identification codes. This ray is then caught by sensors and distributed throughout the workplace. This system can be used for tracking and paging employees, recording check-in and check-out times, rerouting telephone calls, etc.

MODI OLIVETTI, NEW DELHI
TEL: 11-6814544
FAX: 11-6813292

Reader Query Service # #E0212

UltraSPARC Workstations

DCM DataSystems have launched a range of SPARC workstations. DCM SUPERStation Ultra/540 operates at 143 MHz and DCM SUPERStation Ultra/570 operates at 167 MHZ.

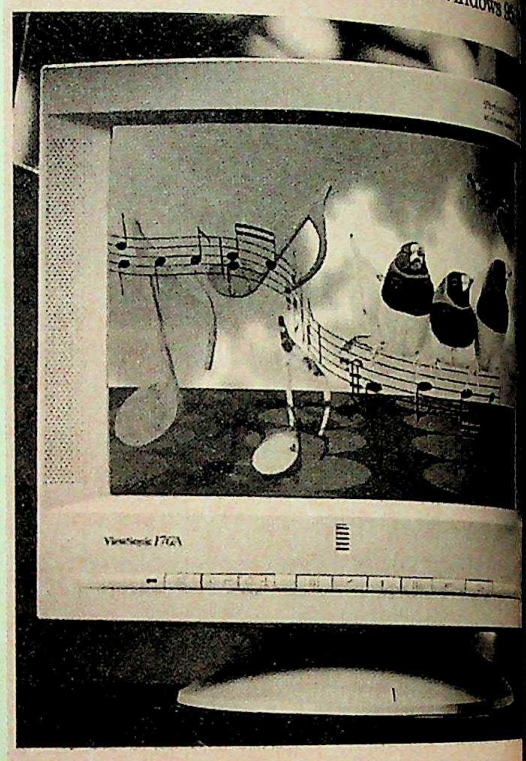
The DCM SUPERStation Ultra family incorporates the ULtraSPARC 64-bit balanced systems architecture. This new Ultra Port Architecture implements a switch type interconnect which allows simultaneous data transfer between CPU, memory I/O and graphic subsytems. These are designed for faster multimedia support. The Visual Instruction Set (VIS) speeds image manipulation, video processing and graphics rendering.

DCM DATASYSTEMS, NEW DELHI
Tel: 11-5739004
Fax: 11-5755731

Reader Query Service # #E0213

ViewSonic's Multimedia Monitors

ViewSonic has launched 15" and 17" multi- tors with built-in speakers. These have b for multimedia applications on the PC p forms. The ViewSonic 15GA and 17GA include f volume and mute controls and also a built-in m headphone jack and an external microphone p plug-and-play compatible to support Windows 95



an OnView control system that allows the user t select and make screen adjustments. It also has a indicators and color tuning for modifying color printer or plotter output.

These have a resolution of 1024x768, 86 Hz r and a dot pitch of .27mm. They also comply with E standards.

VIEWSONIC, TAIWAN
TEL: 886-2-2484072, FAX: 886-2-2408238

Reader Query Service # #E0210

New Color Monitors Fr Samtel

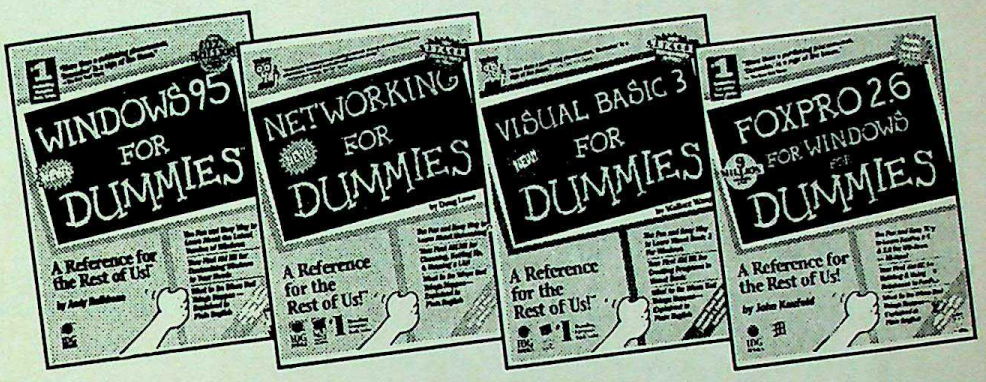
Samtel has a color m a dot pitch and a non-inter 768 resolution. shuts down auto per EPA/ VESA This monitor has dard knobs on panel and stan

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

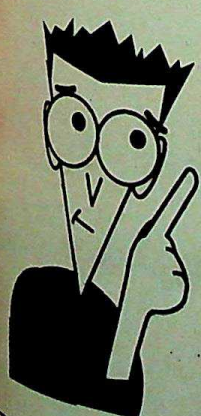
Digitized by Arya Samaj Foundation Chennai and eGangotri

100 WEEKS 100 TITLES 250 THOUSAND COPIES

Today every other computer professional — whether a beginner at TATAS or a seasoned engineer with SIEMENS — is seeking DUMMIES' help in solving his computer problems. With an ever growing popularity it's definitely a new role for DUMMIES in taking INDIA to the 21st century.. A fact that testifies to its wide appeal, reader-friendly format and presentation.



India Swears by Dummies Today



Operating System

- DOS 6.2/6.22 for Dummies 110.00
- Windows 3.1/3.11 for Dummies 135.00
- UNIX for Dummies 110.00
- OS/2 Warp for Dummies 175.00
- Advanced Unix for Dummies 150.00

Programming Series

- Visual Basic 3 Programming for Dummies ... 135.00
- Borland C++ Programming for Dummies 150.00
- OOP's Using C++ for Dummies 135.00
- 'C' for Dummies 150.00
- Power Builder 4 Programming for Dummies .. 175.00
- Visual C++ 2 Programming for Dummies 150.00
- Access Programming for Dummies 150.00
- dBASE 5 for Windows Prog. for Dummies 135.00

Desktop Publishing/Graphics/CAD

- CorelDraw for Dummies 110.00
- PageMaker 5 for Windows for Dummies 135.00
- PowerPoint 4 for Windows for Dummies 150.00
- AutoCAD for Dummies 135.00
- Desktop Publishing & Design for Dummies 135.00

Spreadsheets

- 1-2-3 for Dummies 95.00
- Excel 5 for Dummies 135.00
- 1-2-3 for Windows 5 for Dummies 135.00
- Complete 1-2-3 for DOS (Rel. 4) for Dummies 135.00

Databases

- FoxPro 2.6 for Windows for Dummies 135.00
- dBASE 5 for DOS for Dummies 135.00
- dBASE 5 for Windows for Dummies 135.00

Word Processing

- WordPerfect 6 for Dummies 135.00
- Word 6 for Windows for Dummies 135.00
- AmiPro for Dummies 135.00
- WordPerfect 6 for Windows for Dummies 135.00

Windows 95 titles

- Windows 95 for Dummies 150.00
- Windows 95 Programming for Dummies 150.00
- Windows 95 Uncut (with CD-ROM) 450.00
- Windows 95 Uncut (without CD-ROM) 295.00
- Windows 95 Handbook 195.00
- Windows 95 Secrets (with CD-ROM) 450.00
- Windows 95 Secrets (without CD-ROM) 295.00
- Excel for Windows 95 Bible 325.00
- Word for Windows 95 Bible 325.00
- Foundations of Visual C++ Prog. (with disk) .. 325.00
- Foundations of Delphi Prog. (with disk) 345.00
- Foundations of Visual Basic Prog. (with disk) 325.00
- Word for Windows 95 for Dummies 150.00
- Excel for Windows 95 for Dummies 150.00

Internet/Communications/Networking

- Netware for Dummies (2nd Edn.) 135.00
- Networking for Dummies 110.00
- The Internet for Dummies (2nd Edn.) 150.00
- Modems for Dummies (2nd Edn.) 150.00
- TCP / IP for Dummies 175.00
- HTML for Dummies (with disk) 225.00
- Client/Server Computing for Dummies 150.00

General

- Sex for Dummies 99.00
- Selling for Dummies 110.00
- Macs for Dummies 95.00
- PC's for Dummies 88.00
- Upgrading & Fixing PCs for Dummies (2nd Ed.) 135.00
- Illustrated Computer Dictionary for Dummies .. 68.00
- Multimedia & CD ROMs for Dummies (2nd Ed.) 135.00
- MS Office 4/4.2 for Windows for Dummies 135.00
- Memory Management for Dummies 60.00
- Time Management for Dummies 135.00
- Smart Suite 3 for Dummies 135.00
- cc:Mail for Windows for Dummies 60.00

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Ph: 3268292-93 • Fax: 91-3280567

Branches: • 22/2 Mission Road, Bangalore-27 Ph:2234025 Fax: 2240209
• 23-25 Zaoba Wadi, (Opp. VIP Showroom), Thakurdwar, Bombay-2 • Ph: 2010941 Fax: 2053387
• Khemka House, Ashok Rajpath, Patna-4 Ph: 653644

013/PCQST/SK

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

and swivel base. It can work in a wide operating voltage range to suit Indian power conditions.

SAMTEL, NEW DELHI
TEL: 11-6842791, 6832886
FAX: 11-6837534

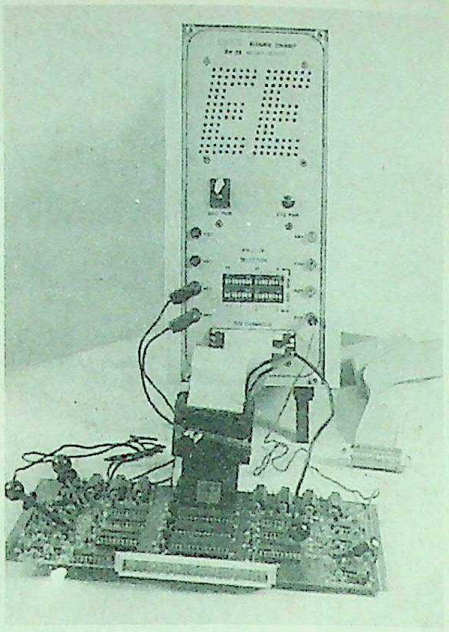
Reader Query Service #E0214

Emco's In-Circuit Tester

Emco Electronics has introduced a PC-based in-circuit test system, Board Champ, for trouble-shooting digital boards. It is useful for incoming inspection and identification of unknown devices out of circuit. It also has a test library, an editor and Truth Table type programing. Other features include auto-location of test clip, auto-learning of device configuration, auto-correction of EPROMS, PALS etc.

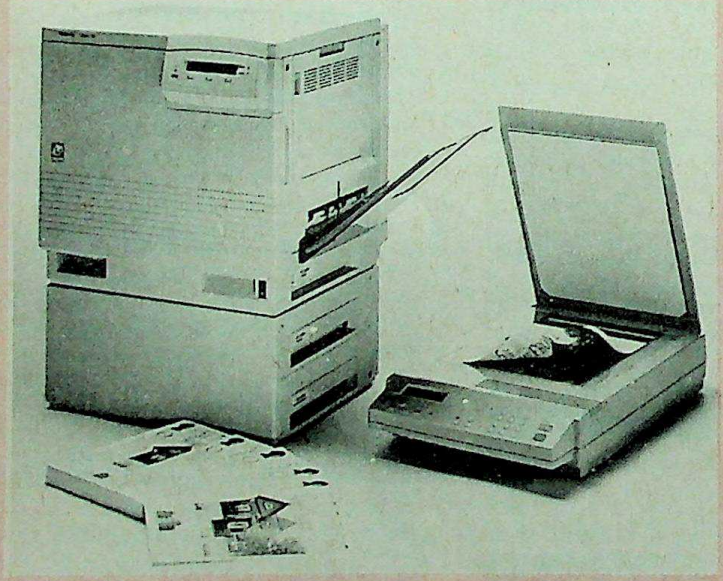
EMCO ELECTRONICS, BOMBAY
TEL: 22-4093431

Reader Query Service #E0215



Network Color Printers

Tektronix has launched a range of color printers for the networked office environment. The models include Phaser 140, Phaser 240, Phaser 340 and Phaser 540 Plus. The Phaser 140 is an entry-level color printer with a speed of 1 ppm and is priced at Rs 87,000. The Phaser 240 is based on thermal wax transfer technology and is targeted at people whose major application is



color overhead presentations. It is priced at Rs 276,600. The Phaser 340 is based on solid ink technology and has a speed of 4 ppm. It is priced at Rs 373,600. The Phaser 540 Plus is a color laser printer with a speed of 3.5 ppm. At a price of Rs 501,000 this printer consists of bi-directional parallel interface and 20 MB memory.

TEKTRONIX, BANGALORE
TEL: 80-2265470, FAX: 80-2250669

Reader Query Service #E0211

ADDRESSES:

Ampersand Software Applications
68, 14th Cross,
I Block, RT Nagar
Bangalore 560032
Tel: 80-3334978, 3336173
Fax: 80-3333891

Axon Computers
658-664, III Floor,
Dr Rajendera Prasad Road,
Coimbatore 641012
Tel: 422-438843
Fax: 422-438843

DCM DataSystems
Vikrant Towers,
4th Floor,
Rajendra Place,
New Delhi 110008
Tel: 11-5739004
Fax: 11-5755731

Emco Electronics
106, Industrial Area,
Sion,
Bombay 400022
Tel: 22-4093431

Modi Olivetti
D-4, Okhla Phase I,
New Delhi 110020
Tel: 11-6814544
Fax: 11-6813292

Onward Novell
Marwah Bhavan
Saki Vihar Road,
Saki Naka, Bombay 4
Tel: 22-8351995, 83
Fax: 22-8214203

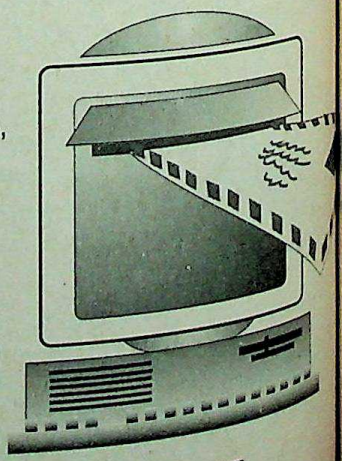
Samtel
50-51, Community C
New Friends Colony,
New Delhi 110065
Tel: 11-6842791, 68
Fax: 11-6837534

Sparr Electronics
43, YMS Complex,
HMT Main Road,
Mathikere,
Bangalore 560054
Tel: 80-3348346
Fax: 803348346

Tektronix
5, Crescent Road,
High Grounds,
Bangalore 560001
TEL: 80-2265470, 22
FAX: 80-2250669

Trident Systems
Trident Technologies
E-1/10, III Floor,
East Patel Nagar,
New Delhi 110008
Tel: 11-5787055
Fax: 11-5767055

ViewSonic Internationa
9F, No 346, Sec 2, Ch
Shang Road,
Chung Ho, Taipeh,
Taiwan
Tel: 886-2-2484072
Fax: 886-2-2408238



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

To Oracle via Power Objects.

Introducing Power Objects from Oracle. The most advanced front end tool for creating client/server applications, Power Objects literally redefines 'Object Oriented Programming'. With Power Objects, you can deliver applications that incorporate powerful client/server database functionality. Without writing any code Because, adding objects to your applications is as easy as dragging and dropping. What's more, PowerObjects is so easy to use, you don't need to learn a complex interface. Designed to support the hardware you are using now, applications developed using Power Objects arecompletely portable. Aren't you glad you can now graduate to Oracle faster?

Personal Oracle 7.0 with Oracle Power Objects now at Rs. 19,900/-

ORACLE®

HEXAWARE INFOSYSTEMS LIMITED

CONTACT HEXAWARE: **Bombay**- Tel: (022)8376338 Fax:8376293, **New Delhi**- Tel: 464 8637 Telefax: (011) 4647833.
Madras- Telfax: (044)459 806, **Bangalore**- Tel: (080)5599289 Fax: 5599287.
Calcutta- Tel: (033)2405128/086 Fax: 2405086.

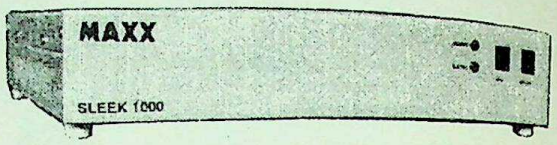
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

UPS MAXX

UPS PRICE DOWN

Nobody can beat us either in price or in quality. Prompt after sales service. One Year Guarantee



RS. 8500/- FOR 625 VA UPS WITH 2 NOS. 7AH SMF BATTERIES
Also Available On-Line UPS from 0.5KVA to 10KVA

* Bangalore: 14/1, 2nd Floor, H. Siddiah Road Cross, Ph: 2220953 / 2243229
* New Delhi : A.118, Lajpatnagar - I, Ph: 6832091 / 6829478 Fax: 6832091

OTHER PRODUCTS : SERVO STABILIZER, CVT, SILENT GENERATOR

AutoTex 3.4

FOR MS-WINDOWS 3.1

CAD SOFTWARE FOR TEXTILE DESIGNING

SALIENT FEATURES

- Any size of graph or design. Scan, draw or import designs in PCX, BMP, TIF formats.
- Create and use any weave.
- Powerful drawing and editing features.
- Many other textile designing utilities.
- Industry specific printouts for Knitwear, Laces, Carpets, Jacquards etc.
- Graph printout as per the card cutter.
- Colour reduction and colour separations.
- View and print woven result simulation.
- Support for computerised card punching machine and electronics jacquards.

DEMO PACAKAGE : Send Rs. 500/- by DD

AUTOPUNCH–OUR COMPUTERIZED CARD PUNCHING MACHINE IS READY

PERSONALIZED TRAINING CENTRE OPEN

APPLICATIONS

- Furnishings
- Upholstery
- Dress Material
- Sarees
- Bed Covers
- Towels
- Plastic Mats
- Carpets
- Durries
- Blankets
- Lables
- Knitwear
- Laces
- Table Mats
- Suiting & Shirting
- Printed Fabrics

PLC SYSTEMS HOUSE

PLC Consulting Company
Gwalior House, 37 Rajpur Road, Delhi - 110 054, INDIA
Ph: 011-2510320, 011-2522383, Fax: 011-2922917
E – mail : avinash.plc@axcess.net.in Tlx: 031 78230

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Who's First With The NetPC?

Oracle thought of it and announced it first. But Microsoft just might get there earlier. They reportedly have nearly completed the protoype of a $500 "net computer" that Oracle's Larry Ellison has been talking about. Oracle plans to launch the product in early 1996.

"Simply Interactive PC is a theme that is guiding our investment in Windows, to deliver more interactivity," said Carl Stork, a director of Microsoft's Personal Systems division. Although Microsoft hopes to launch the PC before Oracle, the company has yet to formally discuss the technology.

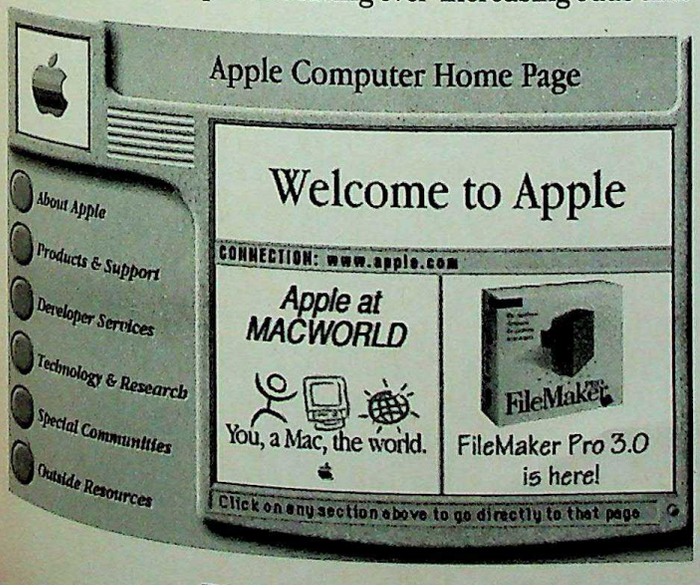
Microsoft's Simply Interactive PC (SIPC) would be a Windows-based front-end for entertainment, Internet access and communications, and is built around an ambitious plan to unify Win95 and WinNT software. It will connect to a remote central server via two-way cable or fiber-optic telephone lines. The server will provide the OS, applications and data storage, with SIPC being little more than a dumb terminal.

SIPC will be a collection of "open specs" including a new family of 32-bit drivers to bring advanced multimedia to an x86-based systems. Although SIPC won't be a Microsoft product, the company has trademarked the "Simply Interactive PC" name, and may license a logo appearing on each system sold.

SPIC would be designed to move Win95 from its current 16- and 32-bit software stew, to an all new 32-bit codebase scheduled for release next year. Although the streamlined Win32 driver model (WDM) will run under current versions of WinNT, Microsoft would have to significantly modify much of Win95's underlying technology to support WDM.

Guess Who Was Invisible At MacWorld

Following a stunning net third-quarter loss of $68 million, Apple Computer had an uncharacteristically low-key presence at the recently concluded MacWorld Expo in San Francisco. A record 80,000 Mac faithful tried hard to ignore that their favorite computer is facing ever-increasing odds that



8-track audio cassette and Beta video tape had: supe products that were able to compete effectively.

Apple made no major product announcements, held press conferences, and its embattled CEO, Michael Spinc didn't even bother to show up for to deliver the usual keyr address. James Buckley, president of Apple's US operatic delivered Spindler's one-hour presentation which was noticea short on details. The highpoint: a short demo of App proposed Copland OS for the Mac which may be Apple's l bet for competing with Win95. "We still deliver someth different and better," Buckley said, adding that "Copland is first complete recode of the Macintosh operating system si it was introduced."

But neither Buckley or other Apple officials were able to when Copland would become available. Contrary to ea predictions of delivery by this summer, Apple is now mak vague statements about shipping by the year-end. "We d know enough to tell you when it's going to be final," sa marketing director in the Copland development group.

Next up, the probable 4,000 layoffs necessary to b expenses in line with revenues and earnings. Despite a hea sales increase, steep price cuts have sharply eroded App margins to 15 percent, down from 29 percent a year ago, 50 percent three years ago.

With an eye towards the consumer market where the comp has maintained its position, MacWorld was used to empha its new Internet products which will make the Mac the eas machine on the market for accessing the Internet and W Wide Web. "While our competitors ponder the potential of Internet for tomorrow, Apple is delivering on easy-to-u innovative Internet solutions today," said Buckley. "Our awa winning QuickTime VR and QuickDraw 3D technologies b an added dimension to the Internet experience while the Ap Internet Connection Kit enables easy access for anyone anxi to tap into the endless resources in cyberspace. Macintos the number one Web authoring platform today."

Apple demonstrated "Salon," a new lifestyle Web site focu on the arts, books and ideas. Co-sponsored by Apple, Sa represents a breakthrough Web site bringing intelligent lively discussion of cultural issues to the growing consur non-technical audience on the 'Net.

To demonstrate how easy it is to open your own Web s Adobe Systems hooked up 30 Macs to the Internet and offe half-hour classes on creating your own Web page. Adobe ha problem selling out the more than three dozen classes. E participant's home page remains on the Web for the duratic the show.

And then there was video and animated multimedia clip featuring full-screen, broadcast-quality clip art. Dig Animation of Michigan — which has been selling stock v animations to broadcast outlets, major corporations government agencies for more than a decade — has digit 2,000 30-second video clips and is now selling them in collections.

"These are solutions to problems the average user is beginning to face," said DAC president Tom Hammill. "W hearing it all: 'My boss wants my presentations to be crispe

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

be more like broadcast, but I don't have that kind of budget.' Now you do." Hammill, who was selling 150 30-second clips for about $400, said his nondescript booth had "seen more activity at this show in the first five hours than we expected the entire time."

Apple also continues to refine its struggling Newton product group by improving the machine's operating system. Apple added enhanced development tools that offer a more powerful development environment for third-party developers. In an effort to broaden its developer base and to address strong demand for Newton software development tools for the Windows platform, a pre-release version of NDK 1.6 for Windows is being distributed to selected developers and is expected to be available by mid 1996.

Apple also announced a suite of products that improves the integration of Newton-based PDAs with both Mac OS- and Windows-based personal computers.

Both the Mac and Windows version of the Newton Backup Utility (NBU) are now available on-line and free of charge. NBU allows customers to back up and restore Newton 2.0 information to a personal computer and also installs software packages from a PC to a Newton PDA. Because of the overwhelming interest in Newton Press, a new software application from Apple that provides a drag & drop method for the creation of electronic books for Newton PDAs from files on a personal computer,

Apple said it will soon expand its line of cross-platform compatible systems. It demonstrated Power Macintosh systems, with the PC-standard PCI (peripheral component interconnect) bus, running prototype PC compatibility cards featuring Pentium and Cyrix 586 processors. The prototype PC compatibility cards demonstrate the cross-platform potential of PCI-based Power Macintosh systems to run the widest range of software applications from the leading PC platforms: Macintosh, DOS and Windows.

New Sun Division For Java

Less than a year after its introduction, Sun Microsystems said it is spinning off its Java interactive Web programming language into a new business unit to be known as Javasoft, to be headed by Alan Baratz.

With Java, computer users interact with other computers and the Internet using high-end graphics. Java also has built-in encryption for secure credit card payments and other transaction.

A dozen companies, including Adobe Systems and IBM, have licensed Java to create software tools. Even Microsoft, which is pushing Visual Basic as a competitor to Java, is considering licensing this hot technology from Sun.

Although technology analysts predict that a substantial installed base of interactive applications is three to five years away, the Java groundswell is another indication of the Internet's growth potential.

Unlike Netscape, which is best known for software to view the World Wide Web, Sun believes it has cornered all sides of the market. It has a technology division, a software division and now, a division to focus on its Internet Java strategy.

Umax Takes Radius Hardware

Financially struggling Radius, which makes high-end Mac plug-in cards and Mac clones, is selling the bulk of its computer operations, including a license to make Macintosh clones, to Umax Data Systems of Taiwan. Umax will buy 80 percent of Radius' systems business. Umax already has a license to make Mac clones for the Asian market, but has been precluded from selling its Mac clones in the US market.

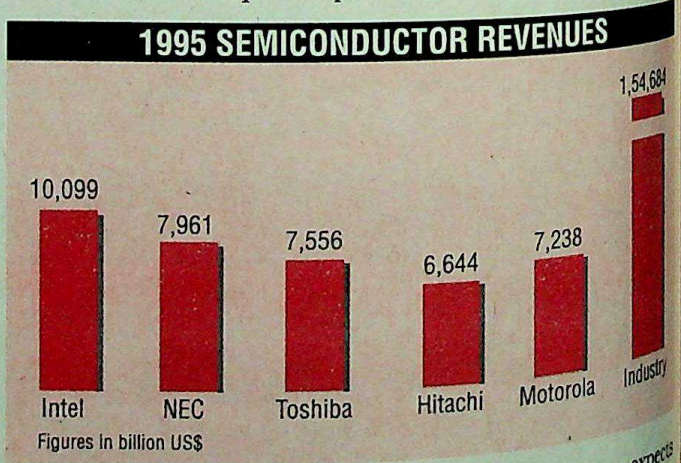
The California-based Radius obtained the Mac license in 1994 in order to make and sell a line of high-end Mac-based graphics turnkey systems.

The $600 million Umax sells scanners, software and printed-circuit boards. It will form a new company, Umax Computer Corp, to make Mac clones in time for shipment before mid-1996. Radius will retain 20 percent of the new company.

Radius made a name selling high-end terminals and graphics accelerator devices for Macs. But it was hit in recent years as the Mac design was altered to support the PCI bus, making it accessible to thousands of devices designed for PCs.

1995 Chip Market Reaches $155 Billion

Driven by unparalleled demand for DRAM memory and advanced microprocessors, the worldwide semiconductor market grew another 40 percent in 1995, more even than the $149 billion that had been predicted only three months ago. Worldwide chip revenues grew from $110 billion in 1994 to $155 billion, according to the US-based market research firm Dataquest reports.



The US Semiconductor Industry Association now expects 1996 chip sales in the US market to slow to around 30 percent. Worldwide, the 1995 chip market was astounding, with Asia/Pacific moving from 8.9 percent in 1994 to 12.1 percent in 1995.

The industry is in for another year of solid growth. Not only

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

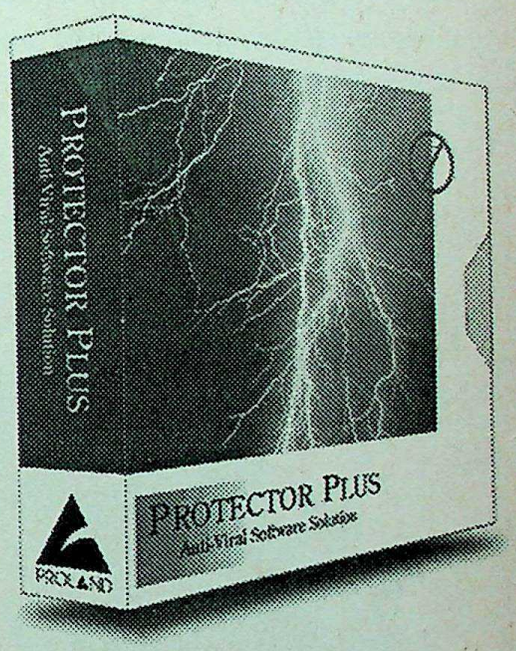
PROTECTOR PLUS ver 5.0

Anti-viral Software Solution

Compatible with:
- Windows 95
- Windows 3.1
- MS-DOS
- Novell-DOS
- OS/2

Introducing **Protector Plus ver 5.0**. The anti-viral software solution for stand-alone PCs. Its installation immunises the system against virus infiltration. Unlike other products in the anti-virus category that largely depend on a scan routine to detect the presence of virus, **Protector Plus** has on-line virus prevention system working round-the-clock.

- All types of boot viruses—known or unknown are automatically eliminated. Boot sector and partition table can be rebuilt.
- Monitors system for viral-like activity, preventing new file viruses from entering the system.
- Can detect changes in status of files and reconstruct them to their original state.
- Scans all files accessed, through any operation—read, write, copy, install, download, unzip, execute, etc...
- Select directories or entire drives can be scanned automatically at pre-scheduled intervals.
- Extensive and exhaustive reports on viral activity and scan results.



Anti-Viral Software Solution

Write, call or fax us for further information on this exciting new anti-viral software

PROLAND SOFTWARE PVT. LTD.,
19, Gangadhar Chetty Road, Bangalore-560 042
Phone: (080) 570033, 5511091 Fax: (080) 5511091
E-mail: subbu.proland@axcess.net.in

WE PRODUCE INTELLIGENT SOLUTIONS

Protector Plus
For NetWare

Your Future Proof Solution to virus problems

yes It runs with NetWare

Distributors:
ADIT MICROSYS (P) Ltd., **Ahmedabad** Tel: 079-408045, Telefax: 6425256
ANSI SYSTEMS (India) Pvt. Ltd., **New Delhi** Tel: 011-6863287, 6854196 Telefax: 6968663

Dealers:
Ahmedabad: Manan Enterprises Tel: 490338, Fax: 493-406; Bhavi Electromech, Telefax: 6633234 **Bombay**: Software Consultancy Group, Tel: 022-4301175/4302072, Fax: 4224912, E-Mail: bombay.scg@axcess.net.in **Coimbatore**: D-Tech Systems, Tel: 0422-212328 **New Delhi**: R.R. Computers, Tel:7510479 Astra Infotech, Tel: 6222191, Fax: 6447252 **Ernakulam**: Spiegel, Tel: 348202 **Gangtok**: Sikkim Computer Services (P) Ltd., Tel: 03592-22279, Fax: 22543 **Goa**: Jay Kay Enterprises Tel: 0832-736262/3 **Hubli**: Tolas Electronics, Tel: 65 227 **Hyderabad**: Susha Technologies Tel: 391954, Fax: 243634; **Jamshedpur**: Engineers & Consultants, Tel: 0657-29655, Fax: 26450 **Kanpur**: Jyothi Electro-Mech, Tel: 310811 **Kochi**: Spiegel, Tel: 0484-348202, Fax: 370136 **Ludhiana**: Litratim Microspecialities, Tel: 0161-456891 455860 **Madras**: Software Consultancy Group, Tel: 044-4340942, 4342938 Telefax: 4348912 **Nagpur**: Datacode Computer System, Tel: 221128, Fax: 236398 **Poona**: Link Software & Systems (P) Ltd., Tel: 335988/349342, Fax: 212-365694. **Punjab**: Rihal Computer Services, Tel: 01882-26294, 22385 **Rajkot**: Softrak Computer Consultancy, Tel: 48840 **Secunderabad**: Software Consultancy Group, Tel: 816216, 817075, 867039, Fax: 817075 **Trivandrum**: D.G. Computer Systems Pvt. Ltd., Tel: 471-62094

DEALERSHIP ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

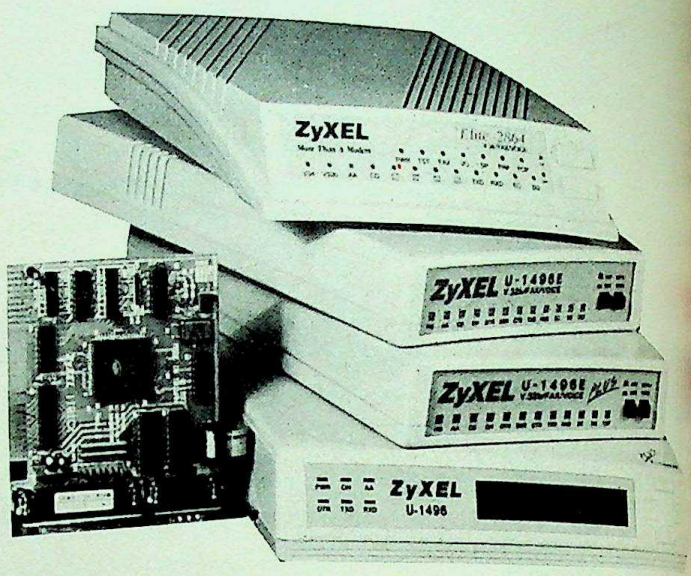
WHICH ZyXEL IS YOURS!

nost every true Data Communication fessional trusts & swears by ZyXEL; The ce/Data/Fax Modems that connect and k where every other Modem has failed.

XEL! the Datacom Professionals choice is available in India in a wide range of models n 14.4 kbps to 28.8 kbps.

up the Model/s, best suited to you and a very pleasent surprise - that ZyXEL data munication can be so fast, efficient reliable cost effective.

s is ZyXEL reliability.



Another pleasent Surprise! We offer all India connectivity in a matter of Days.

Just Fax us your All-India requirement, including addresses of locations to be connected throughout the country.

Team ZyXEL is ready, waiting and wants you to say

This is ZyXEL Service.

ZyXEL

VOICE/DATA/FAX MODEMS

WITH CELLULAR SUPPORT

EDP AIDS PVT LTD

B-32, Lajpat Nagar-2
New Delhi-110 024
Phones (11) : 683 3192, 684 6299, 684 6793,
Fax: (11) : 684 6299
E-Mail (Sprint Mail) : edp.aids/edpa
X-400 : (C:IN,A:VSNL,P:SPRINTRPG,
O: EDPA, FN:EDP,SN:AIDS)
Internet : edp.aids@edpa.sprintrpg.sprint.com

* Associates: Xon Communications Pvt. Ltd.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...e PC industry again expected to grow at about a 20 percent ...nual rate, but a number of semiconductor-hungry consumer ...oducts are on the horizon. In particular, digital video disk ...VD) systems, which will store music, videos and data on one ...sk, will be available later this year.

The strong performance of DRAM suppliers heavily ...ntributed to the increase in revenue of the Asia/Pacific ...gion from $9.8 billion in 1994 to $18.7 billion in 1995.

Intel maintained the top revenue position for the fourth ...nsecutive year, but stronger growth was seen by the major ...rticipants in the DRAM market. Samsung led all top 10 ...ndors with 73 percent revenue growth to $8.4 billion.

AT&T Resurrects NCR

Many industry analysts were stunned when AT&T decided to dump the NCR brandname in 1994, after acquiring the company in 1991 following a bitterly hostile takeover. ...January, AT&T went back to the future, and exhumed the ...d NCR name from its corporate coffer in the hope of blowing ...me new life into its struggling computer unit, which will be ...un off in 1996.

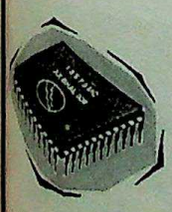
"The name NCR re-establishes in the marketplace the value, ...complishments and customer loyalty of our 112-year history," ...d Lars Nyberg, chief executive of NCR.

Last September, AT&T said that it would split into three ...mpanies, one for telecommunications services, one making ...uipment and one for computing. Shares in each would be ...stributed to its shareholders.

The computer subsidiary was already in the process of ...ting 8,500 of its 43,000 employees worldwide, for which the ...nT took a $1.5 billion charge against profits in the third ...arter. It is down to 38,300 employees now and has pulled out ...m some unprofitable market segments.

MIPS To Launch New Graphics Engine

In a move to give workstation computer users more graphics computing power at a low cost, and keeping Intel from invading the workstations market, Mips ...chnologies of Mountain View will release a new microprocessor ...Monday that brings better three-dimensional graphics ...ocessing to lower-priced workstations.



Mips claims its R5000 chip will be 2.3 times faster than Intel's fastest 200-megahertz Pentium Pro chip in performing some of the math-intensive calculations needed to create graphics. The Pentium Pro, however, is faster than the Mips chip at integer calculations.

...on Bernal, president of Mips, said the 64-bit chip is Mips' ...nswer to the low-cost Pentium Pro machines that Santa ...ara-based Intel began shipping in November and which Intel hopes will enable it to become a player in the workstations market.

Bernal thinks the Mips chip will appeal particularly to people who want to access 3-D images quickly on the graphics portion of the Internet known as the World Wide Web.

The Mips chip will run on machines that run Unix or Windows NT operating systems. It will be manufactured by Integrated Device Technology, NEC, and NKK. The 200-megahertz chip will be available this quarter and will be followed later this year by a 250-megahertz version.

SVNS

SyQuest's 1.3 GB Removeable Drive

SyQuest's new 3.5-inch, 1.3GB SyJET drive was available for advanced preview to attendees of MacWorld, San Francisco. The drive will be officially launched and commercially shipped in the second quarter of 1996. SyJET's "slim line" look conceals its high capacity and performance as compared to other products in the 3.5-inch removable storage market. An internal enhanced IDE and external SCSI are included in SyJET's configurations.

SyJET has evolved from SyQuest's traditional designs for its drives. SyJET's new streamlined look and new design features, such as the one touch cartridge eject button, the electronic power button and see through window, and their locations, are based on consumer research.

SyJET provides a high performance minimum transfer rate of 4mb per second and an average seek time of less than 11 msec. Drive reliability is very high with a Mean Time Between Failure (MTBF) rate of 250,000 hours.

SyJET also provides the unique ability to go into an accelerated "mach mode". This special tracking technique increases the minimum transfer rate assisting refresh rates in extreme data intensive applications such as video. As a result, SyJET is the ideal choice for video editing and storage. SyJET provides a warranty of two years for the drive and five years for the cartridges. Cartridge shelf life is estimated at 30 years.

"The uses for a high capacity, high performance removable storage devices are limitless," commented Phil Devin, vice president and Chief Analyst, Dataquest. "Not only will SyQuest's graphic industry customers be delighted, but an entirely new group of users will now have the ability to easily and inexpensively expand local storage capabilities."

SyJET is ideally suited to fill the growing need for high performance, low cost, unlimited removable storage. High-end power users of removable storage will find SyJET to be the consummate storage solution for applications such as archiving, desktop publishing, imaging, music, video, digital photography and multimedia. One SyJET 1.3 gigabyte cartridge will hold 1300 pages of scanned text, or 10 graphic intensive games or, 7 three minute quicktime movies.

"The SyJET is an ideal solution for CD-ROM multimedia game developers. The ability to fit 1.3 gigabytes on one fast, compact, removable drive cartridge is a necessity because of all

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

the high resolution graphics and sounds used in multimedia programs and games," said David Walls, technical director, Wanderlust Interactive. "I also like the fact that I can load work in progress onto a cartridge and take it home or, share the data with a co-worker. This level of flexibility is hard to find when dealing with files this large."

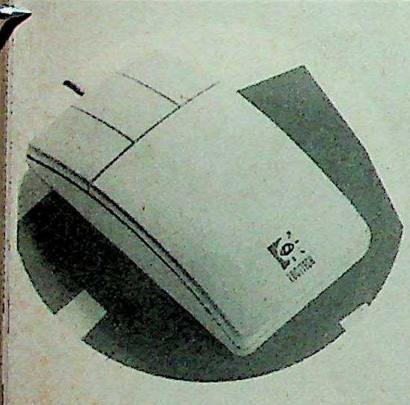
SyQuest is currently positioning SyJET to have a suggested retail price starting as low as $499 for a drive and one cartridge. Two removable cartridge options will be available - a 650MB cartridge priced at $64.95 and a 1.3 gigabyte cartridge priced at $94.95. This means that SyJET offers the world's lowest cost per megabyte - $.07 per megabyte.

After SyJET is launched, it will be available through existing SyQuest channels, including major national distributors, superstore chains and mail order outlets.

Logitech's Pointing Devices For The Mac

Logitech Inc's TrackMan Marble and TrackMan Live! for Macs are based on innovative trackball technology developed after years of research. Both products will ship in March and will be priced at $99 and $149 respectively.

The Marble technology used in TrackMan Marble is based on advanced optics and neural network logic. Devices based on this technology detect movement in a manner similar to that of the human eye and transmit this information to the computer. In Marble Sensing Technology, a sensor embedded in the pointing device remotely tracks the movements of a random pattern of dots printed on an inner layer of the trackball, which is itself protected by a special coating. This unique technology eliminates tracking problems related to dust particles and other user-introduced contamination, and the TrackMan Marble can thus maintain accuracy under a variety of adverse conditions.



Featuring radio control and a range of up to 30 feet, TrackMan Live! enables presenters to focus on their audience and circulate freely while speaking, with no line-of-sight constraint, in contrast to other cordless devices currently available, which rely on infrared technology. Logitech consumer research led to the design of TrackMan Live! as a thumb-activated device that could be used comfortably in a dark setting without having to concentrate on operating it correctly. The product's shape fits the natural contour of the hand, while its intuitive button configuration and placement minimize the possibility of executing an incorrect command.

TrackMan Live!'s other features, such as its four channel options, low-range battery options and battery status signal, make a presenter's task easier.

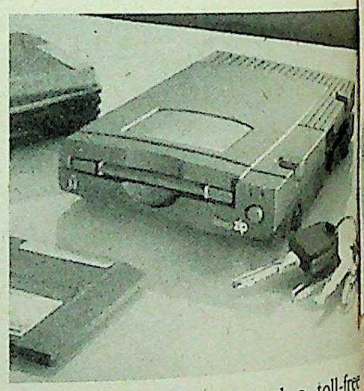
Both TrackMan Marble and TrackMan Live! are three-button mice based on customizable MouseKey software. MouseKey allows users to assign shortcuts to the second and third buttons (e.g. double click, cut, paste, click lock, and other frequently used commands). Additionally, Logitech's MouseKey software includes "SmartMove," a feature that enables the cursor to jump to the next default button of a dialog box. For example, if a user chooses to save a file from the "File" menu, when the dialog box appears, the cursor will immediately jump to the "Save" button. TrackMan Live! also allows users to specify a different set of button assignments for each application — the software remembers the appropriate assignments when the application is active.

System requirements for TrackMan Marble and TrackMan Live! for the Mac are similar: an available ADB port (Macintosh SE or above) and System 6.x or later.

Iomega Launches Program For Graphics Market

Iomega Corporation will help equip imaging bureaus nationwide with its Zip and Jaz drives and provide support through its new IomegaReady Imaging Bureau program.

The IomegaReady Imaging Bureau program is a comprehensive campaign focused on meeting the increasing storage needs of users of imaging bureaus, which are specialized service providers that offer extensive printing and graphic reproduction capabilities to graphics professionals.



Through this new program, Iomega will offer imaging bureaus a special introductory offer for their first Zip or Jaz drive purchase; ongoing, dedicated product support and information through a variety of telephone and online services; promotional materials tailored specifically for imaging bureau customers and a toll-free number assisting Iomega customers in locating an IomegaReady bureau.

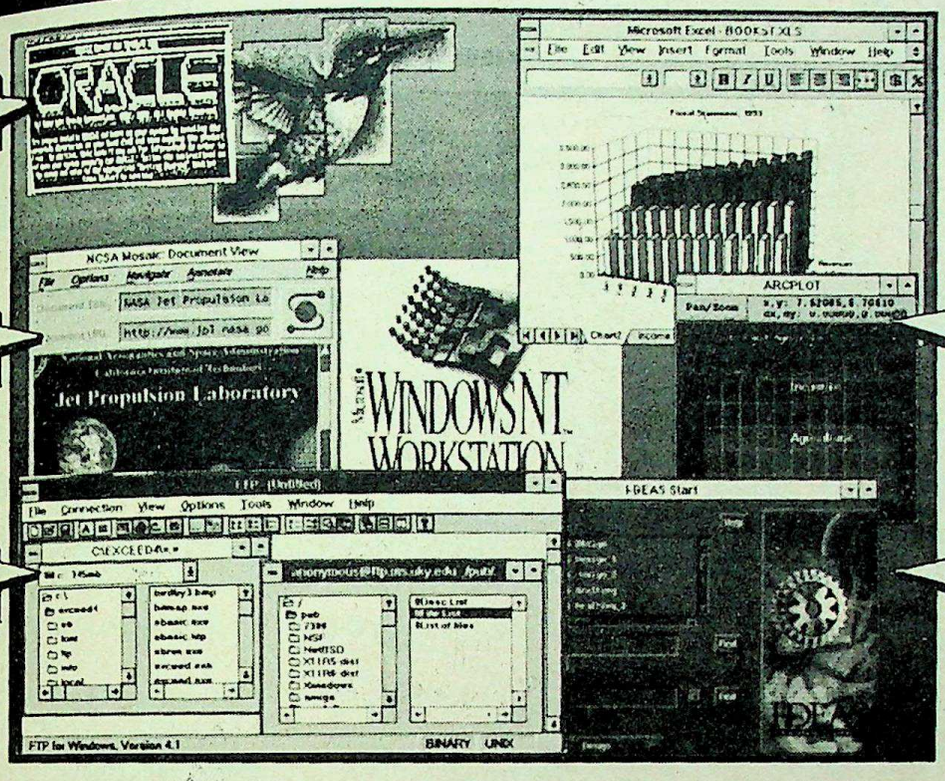
The Iomega Jaz drive is a one-gigabyte removable drive that can hold more than 20,000 scanned documents for document imaging or a digital family album of more than 150 4x5 color photographs. Internal Jaz drives are currently available in limited quantities to key partners within the professional audio and video industries. Iomega expects to begin shipment of internal and external Jaz drives to the retail and VAR channels and other OEM partners in the first quarter of 1996.

Iomega received the 1995 Impact Award from Publish Magazine for the Zip and Jaz drives. Iomega also received the 1995 Award of Excellence for Best Hardware from the International Digital Imaging Association for the Zip drive.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Integrate UNIX Power with PC Flexibility



Access ORACLE, MOSAIC, SYBASE, IDEAS, VISUALA, C++, MOTIF, HWM, VISUAL and BASIC *Simultaneously* on a PC with

eXceed

The best selling PC X Server worldwide.

Also available for Windows 95

HUMMINGBIRD COMMUNICATIONS LTD.

eXceed is the product of HUMMINGBIRD, the undisputed technology leader with the largest market share worldwide.

Now, access all your multiple UNIX applications from anywhere in your network simultaneously on a PC.

The range of eXceed PC X Servers.

- **eXceed 4 for Window 95**
  - PC X Server for Windows 95
- **eXceed 5 for Windows**
  - PC X Server for MS Windows
- **eXceed 5 for Windows NT**
  - PC X Server for Windows NT
- **eXceed/Xpress for Windows**
  - PC X Server over serial lines
- **eXceed/W-MDK**
  - OSF/Motif Toolkit for Development of X application
- **eXceed/NT-XDK**
  - X Development kit for Windows NT
- **eXceed/DOS**
  - PC X Server for MS-DOS
- **eXceed/OS2**
  - PC X Server for IBM's OS/2

eXceed is a registered trademark of HUMMINGBIRD COMMUNICATIONS Ltd.
All copyrights, trademarks and tradenames are the property of their respective owners.

eXceed advantages:

- Share your UNIX resources across the network.
- Leverage your existing PC investment.
- Heterogenous interoperable computing environment.
- Maximum returns from your UNIX investment.

eXceed is brought to you by

Logix the Exclusive Distributor

for HUMMINGBIRD's PC X Servers in India.
LOGIX provides you complete sales and technical support for installations of eXceed on all platforms. LOGIX also provides training on X Servers.

Logix
Bhramhalingheshwara Complex, 493/3, Airport Road, Bangalore - 560 008.
Tel: 080-526 3687/526 0127 Fax: 080-526 3429
eMail: 72102.2056@compuserve.com.

Good News for MAC users!
Now X Server solutions are also available for POWER MAC.

Ask for a FREE DEMO DISK* TODAY

*FAX/MAIL information about your UNIX systems, PC network and applications and quality for a free demo disk.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PURE, CLEAN, ORIGINAL, ORACLE®

PRESENTING THE AUTHORISED ORACLE TRAINING CENTRES

Oracle training. The very latest version at that - Oracle7, is now in town.

So is your chance to get an internationally acceptable qualification that would increase your market value, worldwide.

Oracle7. With course material from Oracle. And faculty trained by Oracle.

Brought to you by SQL Star People (India) Limited, the Authorised Training Centre for Oracle.

Come and discover the pure, clean and original.

ORACLE7

At SQL, nowhere else.

After meeting the stringent international standards of Oracle, SQL Star People (India) Limited, have been appointed as the Authorised Training Centre under the Business Alliance Programme of Oracle.

ORACLE® Authorised Training Centre

SQL STAR PEOPLE

SQL STAR PEOPLE (INDIA) LIMITED

CALCUTTA
A7, 9th Floor,
Chatterjee International Centre,
33/A Chowringhee Road,
Calcutta-700 071.
Tel : +91-33-296582.

DELHI
2nd Floor, Andhra Association Building,
Next to Saibaba Temple, 24 & 25 Institutional Area,
Lodhi Road, New Delhi-110 003.
Tel : +91-11-4602904, 4601539
Fax : +91-11-4601597

HYDERABAD
4, Motilal Nehru Nagar, 1st Floor,
Above Mahalakshmi Motors,
Begumpet Main Road, Hyderabad-500 016.
Tel : +91-40-849125, 846501
Fax : +91-40-816960

Adding value to software Professionals ... with International partnerships.

Oracle is a Registered Trademark of Oracle Corporation U S A

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Kodak's Point-and-Shoot Camera With Removable Storage Cards

Eastman Kodak Company's Digital Science DC50 zoom-lens digital camera, priced under $1,000, allows people to store their pictures on removable storage cards. The Kodak zoom camera joins the company's family of digital cameras that make working with pictures as easy as "point, shoot and compute." The camera uses the same Kodak image sensor as the popular Kodak Digital Science DC40 camera, but offers three key advances—3x zoom lens, which allows picture takers to go from a wide-angled view to three times the magnification, at the touch of a button; higher-quality picture options can be selected by the user and the upgradable PCMCIA removable storage cards, which allow fast access to pictures.

The DC50 zoom camera is the only digital camera, priced under $1,000, to support PCMCIA removable storage cards that are ATA-compatible (Type I or II). By complying with this industry standard, these cards can be recognized and read by any PCMCIA-ATA card reader, with no special software drivers required, a feature that is unique to the DC50 zoom camera. As a result, people using this card will be able to transfer a picture to their computer in a few seconds—about twice as fast as it does through a camera's serial port interface.

Like the DC40 camera, the DC50 zoom camera's outstanding picture quality and flexibility make it well-suited for those who want to add the power of pictures to their communications. For example, mobile workers such as insurance adjusters preparing claim reports or real estate agents developing property listings are already using Kodak Digital Science cameras to incorporate pictures into their work.

Computer Telephony Honors Centigram's TruVoice

Centigram Communications Corporation announced that Computer Telephony, a leading communications industry magazine, named the company's TruVoice text-to-speech software product as a 1995 Product of the Year. TruVoice offers intuitive features that include context-sensitive rules to eliminate time-consuming editing so text can be accurately read. These rules allow data to be correctly interpreted from spreadsheets, address book applications, e-mail messages, and faxes.

TruVoice's preprocessor also strips out unwanted header information in e-mail messages and appropriately interprets punctuation, multi-expansion abbreviations, non-standard abbreviations, and multiple date and time formats. Other enhancements include improvement of voice quality in American English, French, German, Italian and Spanish, as well as new voices (8 male, 2 female) across all available languages.

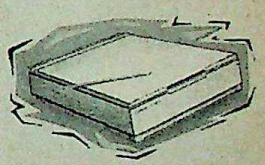
"We chose TruVoice as a Product of the Year for two primary reasons - because its natural language processing technology enables useful, real-world text-to-speech applications that provide quality sound, and because Centigram really hustled to get its technology onto a number of popular and useable platforms," said Harry Newton, editor-in-chief of Computer Telephony. "TruVoice is context sensitive with ASCII text and sentences, and is so intelligent it even knows when to speak quotation marks or expand abbreviations, in addition to correctly reading e-mail. This is an excellent example of the leading-edge technology needed to help advance the integration of the computer and telephone."

Centigram has released a TruVoice software development kit (SDK) for Microsoft's Windows 3.1 operating system. TruVoice is available with Big Sky Technologies' Remark! MessageCenter, a Lotus Notes-based unified messaging product, and with AST Research's Bravo MS line of personal computers. TruVoice is also available on Dialogic's Antares boards and Natural MicroSystems' DIVA open digital signal processing card.

Epson's First Document Scanner For Macs

Epson's Personal Document Station for the Mac is the most powerful document management solution in the Macintosh desktop marketplace.

Unlike any document scanner on the Macintosh or PC platform, the EPSON Personal Document Station includes a complete file management suite that also contains a full optical character recognition (OCR) software package, scan to fax and scan to e-mail capabilities. Additionally, the new EPSON Personal Document Station features EPSON's unique Text Enhancement Technology (TET) and Auto-Area Segmentation for the most accurate OCR and image scans available.



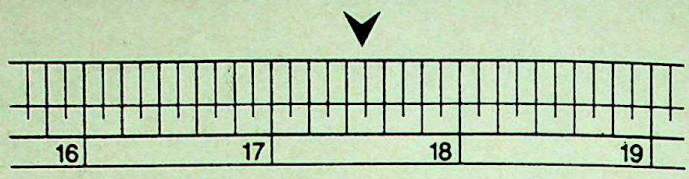
The EPSON Personal Document Station is an 8-bit gray scale scanner with 300 dpi optical resolution. The Personal Document Station's Text Enhancement Technology (TET) and Auto-Area Segmentation features, not found in any other scanner in its category, ensure the highest degree of scanning quality and accuracy. Auto-Area Segmentation automatically separates text from images when both are scanned from a single page, providing simultaneous gray scale image scans and black and white text scans.

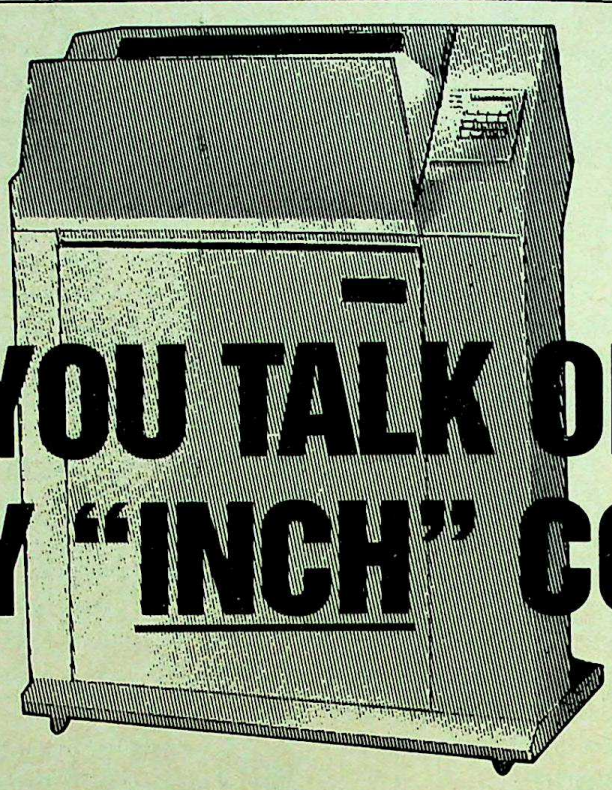
Text Enhancement Technology (TET) provides even greater OCR accuracy by removing background colors and miscellaneous dots sometimes found on faxed documents. The four-page-per-minute EPSON Personal Document Station comes equipped with a 10-page input tray that folds into the scanner's side when not in use. A SCSI interface board and cable are also included, as well as a business card adapter capable of holding three cards at a time.

The EPSON Personal Document Station for the Macintosh is packaged with Second Glance Software's e-Paper, a full

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri





WHEN YOU TALK OF WIDTH EVERY "INCH" COUNTS

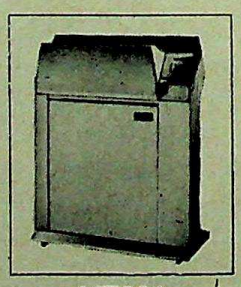
* **Widest Carriage :** Lipi offers widest carriage in Line Matrix Printers - 17 1/2 inches (optional). 1 1/2 inch of added carriage width to accommodate large size forms like two Bank Cheques / Share Certificates printed abreast, thus doubling the throughput as compared to the competition. This gives you an advantage of having two printers for the price of one.

Additional benefits of Mannesmann Tally Lipi Line Matrix Printers :

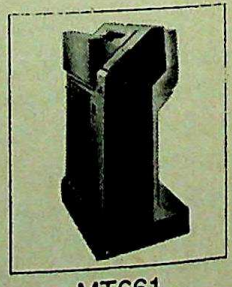
* **Proven Reliability :** In India with thousands of installations against nil of competition.
* **Superior Print Quality :** Because of hard matcrial used for printing elements.
* **Superior Paper Transport :** 4 tractors f reliable and fast paper movement and also reve paper motion for printing graphics. Competition h only 2 tractors.
* **Multiple Interface :** Simultaneously acti serial and parallel shared interfaces with a switching, while competition requires selection fr the front panel.
* **In-line ethernet interface :** Network printer

EXCELLENT BUY FOR PRINTING SHARE CERTIFICATES / BANK CHEQUES

LIPI EXCELS IN HIGH SPEED, HEAVY DUT COMPUTER PRINTERS



MT691
1400 LPM



MT661
800 LPM

MT645
450 LPM

Lipi

LIPI DATA SYSTEMS LTD.
Head Office : Mittal Chambers, Nariman Point, Bombay - 21.
Tel: 2882960 / 61 / 62 / 63 / 64. Fax: 91-22-2873314.

MANNESMANN Tally

BVQI ISO 9001

- **Bombay** : Ph.2882960 / 2882964 • **Delhi** : Ph. 6467228 / 6217392 • **Calcutta** : Ph. 2429435 / 2429550
- **Bangalore** : Ph. 2272954 / 2272955 • **Madras** : Ph. 8283804 / 8281256 • **Udaipur** : Ph. 521700
- **Hyderabad** : Ph. 815185 • **Lucknow** : Ph. 235812 • **Nagpur** : Ph. 523187 / 526761 • **Bhopal** : Ph. 571541
- **Panaji** : Ph. 223712 • **Pune** : Ph. 455729 / 454449 • **Ahmedabad** : Ph. 6569170 • **Baroda** : Ph. 328256

IMPULSE

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

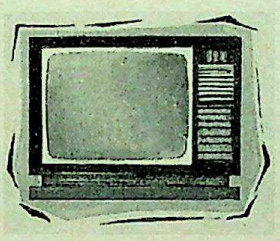
Digitized by Arya Samaj Foundation Chennai and eGangotri

ument archival and management suite. Among many tures, e-Paper contains single-click document processing utomatic paper detection. Its robust document archival em allows users to search for documents based on file e, creation date, keyword, mark-up or contents. The nal Document Station for the Macintosh, which will be ilable in March, carries a manufacturer's suggested retail e of $449. The system has a one-year warranty, extendible two-year warranty by submitting a completed product stration and warranty card.

reen-To-Printout TV Debuts

V Picture Print, the first TV to take color pictures of screen images, was demonstrated at the Winter Consumer Electronics Show, Las Vegas, by Video nologies, Polaroid and Zenith Electronics .

ture Print is completely integrated into a TV. It requires res or special connections, and ture images from video cameras, s, live or satellite TV, and even uters. It uses standard and widely-ilable Polaroid Captiva instant film. sh a button to capture an image a color Polaroid picture pops out. ile the captured image remains in the bottom right of the screen.



is designed for use by home consumers as well as real agents, government agencies, and medical services. A ure film cassette retails at about US$ 10. No prices have announced for the new TVs.

w For Notebooks From son

pson's new EHDD340 is the highest density PC HDD card available today. It features transfer rates upto 6 MB/secs and an interface transfer rate of B/sec. Its Type III PC interface can withstand impacts 750Gs.

e EFM288XJ is a 28.8 Kbps fax/modem in a slim, Type d. It has a pop-out XJack connector for easy hookup to dard phone lines. The card combines advanced mission technology with innovative packaging and orts Class I and II interfaces, CCITT and Bell connectivity, p III communications, and MNP4 and V.42 protocols. It is ded with Windows and Mac software.

th products support Apple PowerBook 500s and the new erBook 190 and 5300 series.

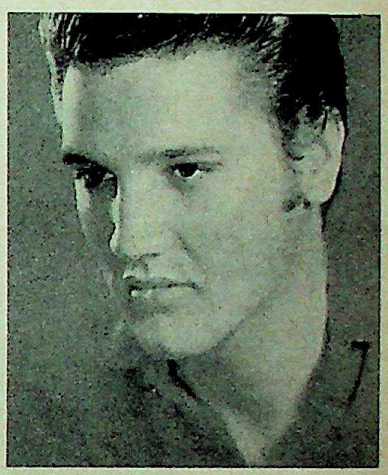
mple EHDD340 are available now, with retail sale to s in mid-January in the US, at a list price of $599. OEM ces will retail for $395 per 1,000. The EFM288XJ will also oduced in mid-January for $299.

r an additional $70 service fee, a Data Recovery Program over data from badly damaged EHDD340s is also available.

The cards are supplied with Card and Socket Services software and are covered by Epson's two-year warranty, with an additional year on return of the registration. In the event that the card proves incompatible, buyers are entitled to a refund on the purchase price.

A Present For The King

The Elvis FigureFone is a posthumous birthday present for the King of Rock 'n Roll. Instead of the standard ring, incoming calls trigger a pelvic-shaking Elvis in his prime with 26 seconds of "Jail-house Rock."



This foot-high. authentically sculpted figure showing Elvis circa 1956 on stage, complete with guitar and microphone, will be popular with his fans. The stage has a fully functional telephone handset. The styling is quintessential Elvis: from his curled lip to his sneer.

The Elvis FigureFone, under license from Graceland, is produced by Tele-mania/Kash N' Gold. It will retail from summer 1996 for about $79.

32-Bit HTML Plug-in

The new 32-bit RoboHELP HTML Plug-in from Blue Sky Software makes 32-bit word processors capable of simultaneously creating HTML files and Windows Help systems. At present this is the only tool supporting this plug-in architecture.

Based on Blue Sky's Help-to-HTML technology, RoboHELP needs no learning curve and automates creating files for building Wide sites. Its visual environment provides an easy way to create Windows Help features including jumps, topics, graphics, multiple hotspot graphics, and contents tabs. It auto-converts these into corresponding HTML features. It also creates an HTML Home Page based on the Contents Tab or the Contents Topic of a Windows Help file, an HTML file for each Help topic, links to HTML files based on Help topic jumps and pop-ups, and GIF files for bitmap and corresponding image map files for each hotspot graphic.

RoboHELP is part of the new Help-to-HTML Kit, which also includes the Help-to-HTML Converter. This is based on the same technology used by RoboHELP. However, the Converter converts any Win 3.1 or Win95 Help file into HTML, regardless of the Help authoring tool used to create it.

The Kit, available in January 1996, will list at $398 with an intro price of $199. RoboHELP 95 is also available at a suggested retail price of $499 with competitive upgrade pricing for users of other Help authoring tools.

BW

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Great news for the Information Age

"Some of the best Indian PCs now preloaded with C-DAC's celebrated GIST Series

LEAP®

Multilingual Word Processor for Windows as a STANDARD FEATURE"

Supports Assamese, Bengali, Devanagari, Gujarati, Kannada, Malayalam, Oriya, Punjabi, Tamil, Telugu & English.

modi olivetti
WORLD CLASS SYSTEMS
TRIED AND TRUSTED IN INDIA

UNICORP

CEREBRA infiniti

Tulip COMPUTERS

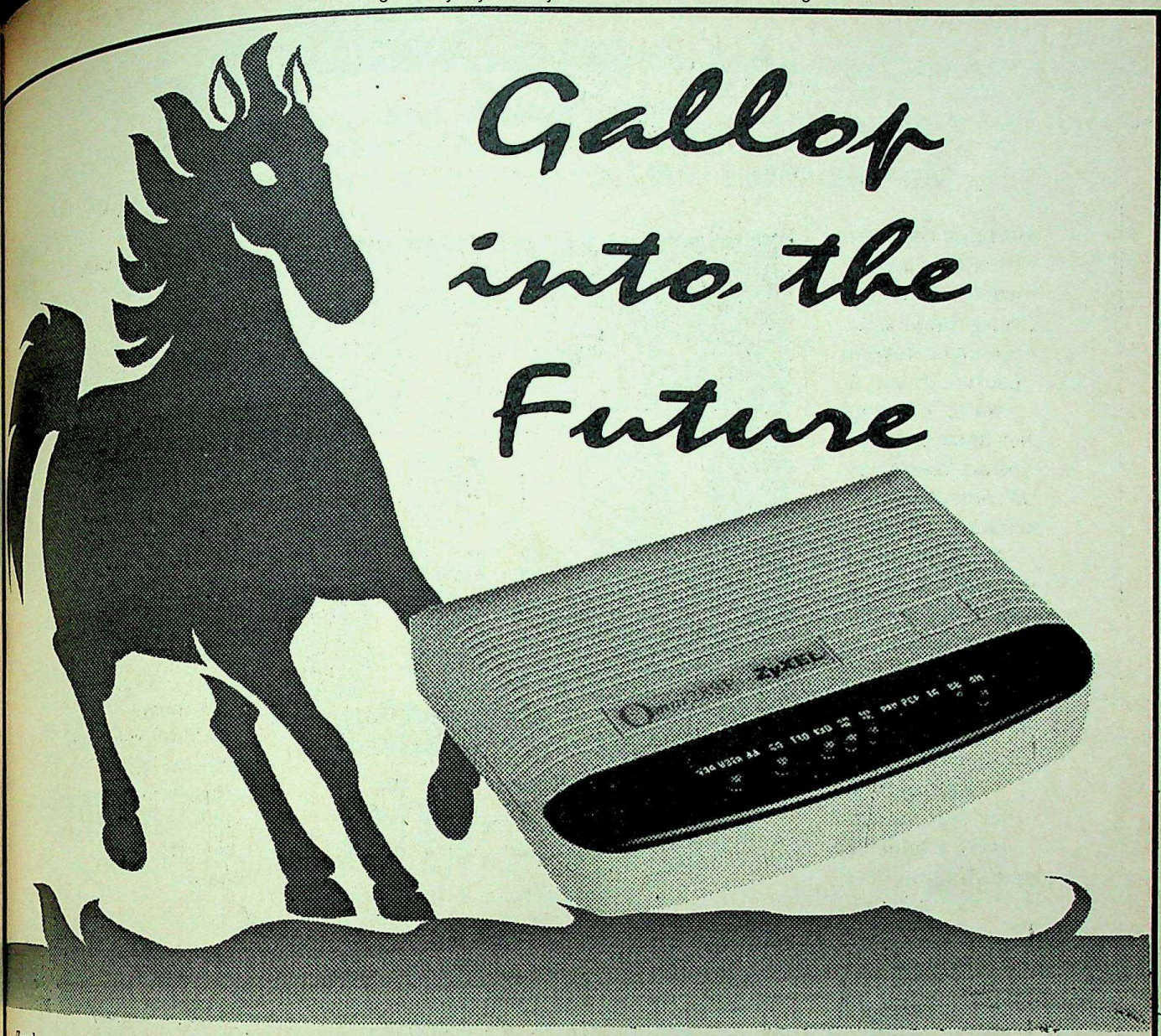
Nurture your Mothertongue,
Insist On Gist®

Gist GROUP
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
Ganesh Khind, Pune 411 007.
Tel.: (0212) 357020, 352461/79/83, 350434
Tlx.: 0145-7615 CDAC IN, Fax.: 91-212-35
e-mail: gist@parcom.ernet.in

CDAC
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

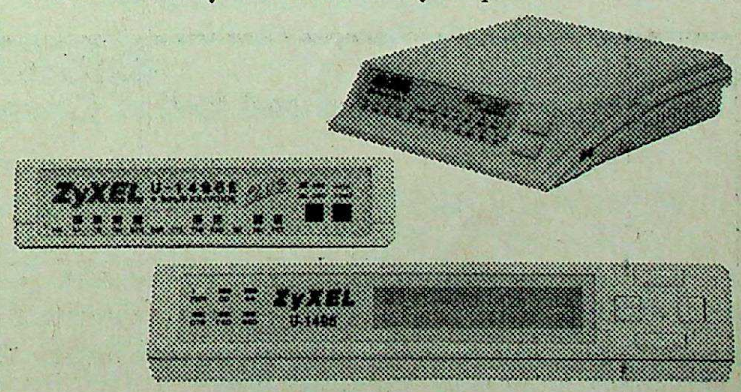
Digitized by Arya Samaj Foundation Chennai and eGangotri



Zyxel range of modems offer you an outstanding choice for your requirements. The extra functionality coupled with astounding speeds and foolproof reliability have made Zyxel modems a product of international repute (A number of BBS operators will vouch for and second our claims)

The latest addition to the Zyxel family, OMNI 288 V34/Fax/Voice Modems - is a proof of commitment to customers needs with highly advanced technology, to suit Voice/Data/Fax requirements. By conforming to the latest protocol available and providing convenient voice/message inputs+outputs, the OMNI surpasses all competition. In addition to its TAPI support, the call back security and password protection features make the OMNI unique. Above all, the salient fax functions prove the far reaching capabilities of the OMNI. Omni is a proud new addition to the existing range of models consisting of *Elite 2864 V.34 / FAX / Voice / ISDN Upgradeable, U-496E Plus, Plus Enhanced U-1496.*

The entire plethora of Zyxel modems offer a tremendous value for money with the incredibly low prices.



Rush with your requirements to:

Xon Communications (India) Pvt. Ltd.
No. 19, Casa Major Road, Egmore, Madras - 600 008.
Ph.: 8258336 / 8260124. Fax : 6263184 / 8554930.

APARNA/XC/010/96

DEALERS : **Ahmedabad** : MICROWARE, Ph: 079-407772, **Bangalore** : Xon Communications (India) Pvt. Ltd., Ph: 080-5255358, OPTIONS, Ph: 080-5254204/5279141, ZAX BUSINESS SYSTEMS, Ph: 562759, **Bombay** : SIGMA CONTROLS, Ph: 8723706/8733623/8733682. **Coimbatore** : INFONET SERVICES, Ph: 0422-213319/211973, **Guwahati** : UNIMATION INDIA, Ph: 0361-520889, **Gujarat** : Vallabh Vidya Nagar, MICRO MEDIA SYSTEMS, Ph: 02692-46531, **New Delhi** : EDP AIDS PVT. LTD., Ph: 6833192/6846299/6846793. **Patna** : SILICON ORCHARD, Ph: 0612-224391, **Pune** : CTECH SERVICES, Ph: 0212-456617, **Surat** : ADVANCED MICROTECH, Ph: 0261-427320.

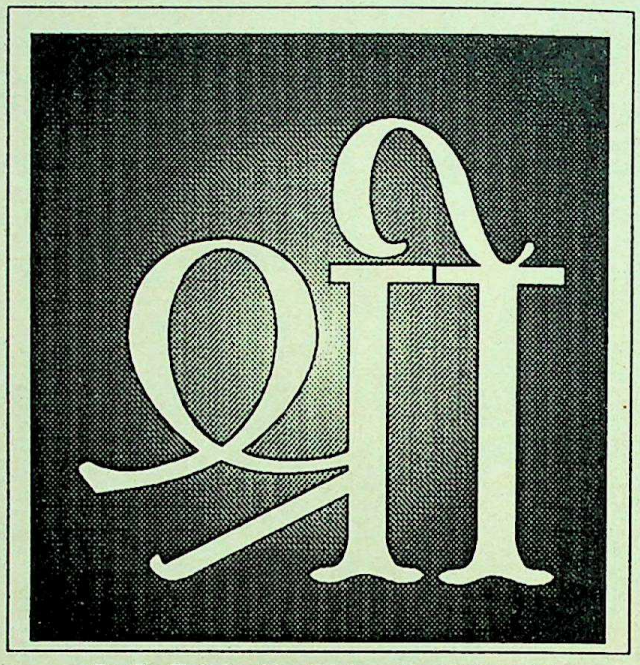
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

OVER 1200 FONTS .. ALL INDIAN LANGUAGES...

OVER 5000 USER BASE ...
ON IBM 386/486 as well as Macintosh ...
WORKING UNDER WINDOWS-PAGEMAKER/CORELDRAW/VENTURA

Modular Systems has the largest library of fonts in Indian languages. You can have a unique choice of fonts. You can also have any two Indian languages of your choice in even the smallest package. Most popular windows applications like Pagemaker, Coreldraw, Ventura, MsWord are well supported. Even the smallest package comes with a built in multillingual text editor,



SHREE-LIPI

From

MODULAR SYSTEMS

26,Electronic Co-op.Estate,Pune-Satara Road
Pune 411 009. Tel.:(0212) 437994,423510
Fax:(0212)452323

format conversion utility and HP mirror printing utility. All these can be directly invoked from Windows. Shree-Lipi supports a large variety of popular keyboard layouts. Shree-Lipi fonts are also available on Macintosh platform. Using Shree-Lipi makes you a member of over 5000 satisfied Modular DTP software user base, who keep getting good after sales support.

Attention !

Japanese Companies and Indian Companies with Japanese Collaborations.

日本語・英語・翻訳

JAPANESE TO ENGLISH TRANSLATION SERVICES

Modular Softwares Pvt. Ltd. offers computerised services for techinical translations of manuals, reports, training material, product literature, handouts and a variety of other material in Japanese Language. Our speciality :-

- Highly competent team of Japanese language translators and experts
- Computer aided translation techniques using multiple dictionaries
- Speedy translation work.
- Translated text scrutinized by professionals.
- Input Japanese text accepted in IBM-PC or Macintosh compatible text files. (We can accept text floppies on either 1.2MB-5.25 inch or 1.44MB-3.5inch IBM/MAC file format.)We can also accept clearly visible printed Japanese text as input.
- Output on laser printed hardcopy and/or as MS-WORD/Pagemaker files.
- Reasonable rates.

Modular Softwares Pvt. Ltd.
B-II[nd] floor, 26, Electronic Estate, Pune-Satara Road Pune 411 009 INDIA
Phones: (0212)437994, 423510 Fax: (0212) 425896, 452323

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

A compilation of positions advertised between 1 January and 31 January, 1996 in various Newspapers

OVERSEAS

$ Package ➤ Contact

SOFTWARE ENGINEERS • SINGAPORE • EDB SINGAPORE
Qualifications :BACHELOR OR POST GRADUATE IN COMPUTER SCIENCE \ IT Experience : IN 4GL \ DBMS $ Attractive ➤ 250,NORTH BRIDGE ROAD, #24-00 RAFFLES CITY TOWER, SINGAPORE 179101 (HIN-06/01/96)

PROJECT MANAGERS • USA • SILVERLINE INDUSTRIES LTD.
Qualifications :M TECH \B TECH \BE \ MCA \MBA Experience : 4 YEARS & ABOVE $ Attractive ➤ 121, SDF IV, SEEPZ, ANDHERI (E), BOMBAY 400096 (DCH-09/01/96)

COMPUTER PROFESSINONALS • KOREA • SAMSUNG ELECTRONICS
Qualifications :GRADUATE ENGINEERS Experience : 2 YEARS $ Attractive ➤ C\O INTERNATIONAL INN, 9A,LAJPAT NAGAR IV, NEW DELHI 110024 (HT-09/01/96)

COMPUTER CONSULTANTS • PENNSILVANIA • DEVON CONSULTING
Qualifications : Relevant Experience : 3 YEARS & ABOVE $ Attractive ➤ C\O RAMANA, 49 SADULLA ROAD, MADRAS 600017 (HIN-13/01/96)

APPLICATION CONSULTANTS • OVERSEAS • SYSTIME COMPUTER SYSTEMS LTD.
Qualifications :BE\MCA\CA Experience : 2-3 YEARS $ Attractive ➤ GENERAL MANAGER, CUSTOMS WING, SEEPZ, ANDHERI(E), BOMBAY 400096 (ABP-18/01/96)

INDIAN

PROJECT MANAGERS • DELHI, BOMBAY • SIEMENS INFORMATION SYSTEMS
Qualifications :ELETRONICS ENGINEERS Experience : 5-8 YEARS $ Attractive ➤ COPORATE HUMAN RESOURCES, 130,P.B MARG, WORLI, BOMBAY 400018 (TOI-01/01/96)

GUI PROFESSIONALS • BOMBAY • TATA CONSULTANCY SERVICES.
Qualifications : Relevant Experience : 2 YEARS & ABOVE $ Attractive ➤ CHIEF MANAGER PERSONNEL, 6MARINE LINES,LOTUS HOUSE, SIR V.T MARG, BOMBAY 400020 (TOI -04/01/96)

SOFTWARE DEVELOPMENT PROFESSIONALS • BANGALORE • DIGITAL EQUIPMENT (I) LTD.
Qualifications :MICROSOFT CERTIFIED ENGINEERS OR SOLUTION DEVELOPERS Experience : Relevant $ Attractive ➤ SOORIANRAYANAN 45/14 TUMKUR ROAD, DIGITAL HOUSE, BANGALORE 560022 (HIN-06/01/96)

SOFTWARE PROFESSIONALS • NEW DELHI • TATA UNISYS LTD.
Qualifications :ELECTRONICS\COMPUTER ENGINEERS Experience : 4-10YEARS $ Attractive ➤ SENIOR HRD EXECUTIVE. CREATIVE 10 MASJID MOTH, COMMERCIAL COMPLEX, NEW DELHI 110018 (HT-09/01/96)

SYSTEMS ENGINEERS • NEW DELHI • APPLE PUBLISHING CENTRE
Qualifications :ELETRONICS ENGINEERS Experience : Relevant $ Attractive ➤ EXECUTIVE DIRECTOR, A220,OKHLA INDUSTRIAL AREA, PHASE I, NEW DELHI 110020 (ECT-09/01/96)

SOFTWARE PROCESS ENGINEERS • BANGALORE • CG-SMITH SOFTWARE PVT LTD
Qualifications :MASTERS DEGREE Experience : 6-12 YEARS $ Attractive ➤ MR GEORGE SMITH, 1A,PEENYA INDUSTRIAL AREA, 2ND PHASE, BANGALORE 560058 (DCH-10/01/96)

SYSTEMS INTERGRATION SPECIALISTS • BOMBAY • NIIT LTD.
Qualifications :BE\MCA\GNIIT Experience : 8 YEARS IN APPLICATION DEV $ Attractive ➤ ZONAL MANAGER, C-3 BALARAMA BLDG, BANDRA(E), BOMBAY 400051 (TOI-15/01/96)

DESIGNERS(REAL TIME SYSTEMS) • BANGALORE • ORIGIN TECHNOLOGY (I) LTD.
Qualifications :ELECTRONICS\COMPUTER ENGINEERS Experience : 5 YEARS(2 IN SYSTEMS DESIGN) $ Attractive ➤ AJIT SHAH, 126-127, SDF IV,SEEPZ, ANDHERI (E), BOMBAY -400096 (HIN-20/01/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

APPOINTMENTS

HONGKONGBANK

INVITES APPLICATIONS FROM

SOFTWARE PROFESSIONALS

HongkongBank is a member of the HSBC Group, which is one of the world's leading financial and banking services organisations. We are an acknowledged leader in banking technology and have some of the best banking systems in India.

We are looking for software professionals to join our Technical Services department in India.

The ideal candidates will either be postgraduates in a discipline relevant to software development, or graduates with experience in developing applications on the IBM AS/400 architecture.

The bank offers a stimulating environment to work in and a compensation package which is comparable to the best in the industry.

Please address the applications to : Post Box 128 , Bombay 400 001,
so as to reach us by 29 Feb. 1996.

All applications must be marked HK-TSV

HongkongBank

Member HSBC Group

CAN I CREATE MUSIC WITHOUT USING A SOUND CARD?*

PC Quest. A friend that's as close as your system. It offers you a forum to exchange points and counterpoints, reach out to online solutions to your problems, share information and of course get to know all about what the market offers you. PC Quest. It' s unmissable!

THE PERSONAL COMPUTING MAGAZINE PC QUEST

THE USER'S VERY OWN MAGAZINE

*Authentic Reader Query

Cyber Media India Ltd. 701, Meghdoot Bldg.,
Nehru Place, New Delhi-19. Ph. : 6476664, 6416315

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...S Electronics Ltd. was launched in 1986 and in a span of ...e years is the largest manufacturer of computer peripherals ...India. TVS Electronics has been promoted by the ...stigious TVS group, the twelfth largest business house in ...dia.

...S Electronics has collaborations with the world's leading ...nufacturers such as Citizen, Japan, Oki, Japan and Victron ..., Netherlands.

...S Electronics offers a wide variety of printers to match ...ry printing need.

...e Q series printers have a long head life and come with a ...ique two year warranty. In addition to this they are virtually ...eless, offer a colour printing feature, and many other ...e-of-the-art features.
...e 4 models available in this series are Q10, Q20, Q25 and ...

...e HD series represents the series of "Intelligent printers", ...is to their self-adjusting printhead and smart paper ...ding technology.
...ese printers are designed to tackle high speed, high quality ...ting on a flexible range of paper sizes and thicknesses ...uding multi-part stationery. All this without sacrificing on ...t quality.
...e models available in this series are HD 5000, HD 5650, HD ...0, HD 6590 and HD 6595.

...e MSP series printers, sleek and elegant in appearance, ...known for ruggedness and reliability. They form India's ...gest selling range of dot matrix printers.
...e models available in this series are MSP 145 Plus, MSP ...5, MSP 240 and MSP 255.

...e Novo series printers, are designed to meet all your day ...day printing requirements and more.
...e models available in this series are Novo 130 and Novo ...

...S Electronics is designed to providing the highest level of ...port to its customers. To deliver complete customer ...faction, TVS Electronics has extended the reach of its ...er sales service facilities, both through its own regional ...ces and the network of TVS Electronics Authorised Service ...res all over the country.

...s no wonder then, that TVS Electronics printers were ...ked as the most popular of all dot matrix printers in a ...ld evaluation survey conducted recently.

...rand Evaluation for Dot Matrix Printers

Total Base: 159963 units sold

...k	Brand Name	S.O.M.
...)	TVSE (Calligra/MSP/Novo/HD)	38.35%
...)	Wipro Epson (LX/EX/FX/LQ/DFX)	37.49%
...)	L&T (Samsung-SP)	11.27%
...)	Panasonic	8.18%
	Godrej	2.27%
	TOTAL	97.55%

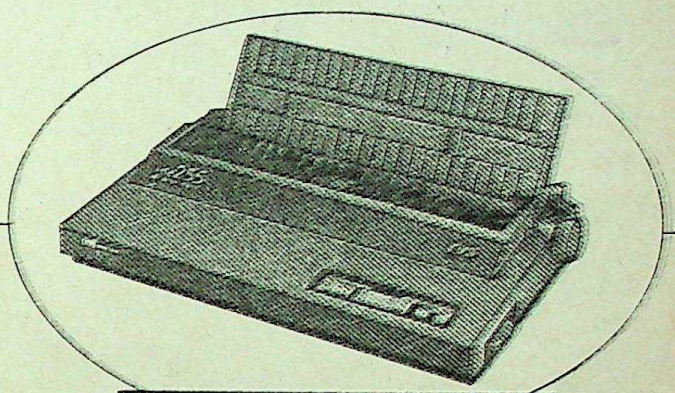
...ce: Computer World - December, 95

...S Electronics has left an indelible impression, not just the ...they print on, but also on the user community at large.

Introducing

MSP 255

THE MAHAPRINTER



9 wire, 132 col., 300 cps.

Designed in India
- World class features.

New addition to the MSP series
- India's largest selling range of dot matrix printers.

Extra long print head life
- 200 million characters.

Microline feed
- For fine adjustment of paper position.

3 programmable macros
- For easy printer configuration.

High performance – price ratio
- Best value for money 300 cps printer.

For further information, contact:
TVS ELECTRONICS LTD., 10-B, I Phase,
P.O. No. 5805, Peenya, Bangalore 560 058.
Tel.: 839 5000. Fax: 839 6334.

TVS
ELECTRONICS
The No.1 in printers

Available in select markets.

For further information, call TVS Electronics, Ahmedabad: 7411227/7478619, Bangalore: 2261723/2261713, Bombay: 6247350/6247364, Calcutta: 2621137/268355, Delhi: 6212576/6212577/6212578, Madras: 6412422/6412650, Pune: 332856/369346, Secunderabad: 76534

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Consumer Electronics '95:

Digital Video Disk products dominated Las Vegas

The Winter Consumer Electronics Show 1996 held in Las Vegas in January, was considerably smaller than the past years, due to the loss of Sega and Nintendo, along with almost all major developers of video game software. The video game industry is by-passing the CES shows in Las Vegas and Chicago (June) in favor of a hot new show called the Electronic Entertainment Expo, which is held every May in Los Angeles.

The loss of the video game sector sent attendance tumbling from 103,000 last year to just 80,000. And at 1,800, there were 200 few exhibitors than a year ago.

Digital Video Disk (DVD) technology was getting overwhelming attention. But only two months after the two rival DVD groups agreed on a universal standard that will avert a new beta-vs-VHS confrontation, DVD players were only represented in slick booth demo versions. Consumers will have to wait until late 1996 before they will see any of the machines on store shelves.

Yet CES remains the premier event for companies to showcase all the latest gadgets in consumer electronics. Ranging from automobile security systems triggered by the sound of your voice, nightvision visors for consumers, computer keyboards designed just for children, and devices for connecting a camcorder in one room to a television set in another room through telephone lines.

The mood at CES was relatively optimistic, following healthy growth in most sectors of the US consumer electronics market which grew 10 percent in 1995 to an industry record of $62 billion. The boom in home office and home theater were two major contributors.

In 1995, home office products raked in sales of $22 billion, up 24 percent from 1994 due to the fact that an estimated 54 percent of American households set aside space for a home office. In 1996, sales in this category are expected to reach $25 billion. Personal computer sales sizzled totaling 8.4 million units, up 25 percent from 1994. US household pene-tration of computers ended at 40 percent for 1995.

Despite the lack of retail-ready machines, DVDs emerged from CES as the likely next huge consumer electronics market, promising to put hours worth of high-quality full-motion video onto a single audio CD-size disk.

The first wave of DVDs will be limited to movie players that will retail at around $500. Although DVDs will not make VCRs obsolete until they offer both play and record capabilities (around the turn of the century) they are likely to become the preferred way of viewing movies in the home.

In a later stage, DVDs will also function as both movie player, audio player, and computer CD-ROM drive. DVDs, according to some of the presentations at CES, will be the enabling technology that will fully integrate personal computers and home entertainment systems.

Among the companies that showed off their

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

prototype DVD systems at CES were Pioneer, Sony, Thomson and Toshiba. Sony, which 15 years ago introduced the compact audio disk showed a DVD disk that stored up to 8.5 gigabyte of data, enough to play more than four hours of MPEG-2 video with picture quality that approaches the original D-1 studio master. The disks replace more than a dozen of today's 650 MB CD-ROM disks.

"Digital is the language of the convergence of consumer electronics and computers," said Yuki Nozoe, senior vice president of Sony Electronics' Consumer Products Group. "And Sony intends to extend that language as far as possible to all of our product lines."

Among the scores of new products and announcements at CES:

• Nightvision isn't just for soldiers and police anymore! By this summer, consumers will be able to purchase a pair of nightvision scopes. From observing nocturnal wildlife on a weekend camping trip, to discovering whether the nighttime noise in their backyard is a burglar or just a pesky raccoon, the new Night Quest line of night vision viewers by ITT Night Vision will give consumers the power to see in near total darkness. The Night Quest line includes the Night Quest 100, a top-of-the-line G2 (Generation 2) night vision viewer that easily slips into a purse or a glove compartment. The Night Quest weighs in at a scant 10 ounces and will retail for less than $800.

• Compaq and toy maker Fisher-Price unveiled a line of computer hardware and software for children called "Wonder Tools." The systems will start shipping this summer. The line includes the "Wonder Tools Cruiser", a $150 automobile dashboard—complete with steering wheel, throttle, horn and radio—that plugs into a Windows computer, allowing young children to control specially designed games by using the dashboard controls. The "Wonder Tools Keyboard" is a $130 computer keyboard and mouse with oversized keys and special function buttons. The two companies will also ship a separate series of CD-ROM games for children that will work on any computer, without requiring the "Wonder Tools Cruiser" or "Keyboard."

• Terk Technologies of Plainview, New York, introduced the "Terk Home Network," a system for moving television signals through phone lines. For about $200 to $300, buyers will get a receiver and a transmitter. A camcorder focused on a baby's crib, for example, could be plugged into the transmitter box, which is then hooked to a phone jack. The receiver box, also connected to a phone jack, is plugged into a television set in the family room. Parents can then monitor their baby during the commercials on "Melrose Place." The devices don't interfere with phone service, and will operate even during phone calls.

• Franklin Electronic Publishers of Burlington, New Jersey, showed a prototype of what could be the world's cheapest Personal Digital Assistant, or PDA. Franklin's Bookman, which looks somewhat like a large hand-held calculator and sells for under $150, is being married to Sidekick, the personal information manager from Starfish Software of Scotts Valley, the company run by former Borland International chief Philippe Kahn.

The Sidekick Bookman should be available by June, and will connect with a Windows computer for moving information back and forth.

• Videonics' new "Video Tool-kit" system allows consumers to edit home videotapes on a computer. The Macintosh version is available now for $99, with a Windows version due by June. The Video Toolkit consists of software and connecting cable allowing computer users to rearrange the contents of a video, using the PC to control both the video source, such as a camcorder, and the destination, such as a VCR. For camcorder hobbyists who already own a computer, it's significantly less expensive than purchasing stand-alone video-editing equipment, which costs at least several hundred dollars.

• Sensory Circuits of San Jose launched the "Voice Password" microprocessor. The $4 chip will recognize a pre-programmed password and the voice of its owner, so interlopers won't get past the chip even if they know the password. Sensory Circuits said several manufacturers of automobile anti-theft systems will build Voice Password chips into their remote access devices.

SVNS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

microware CD-ROM

Our Catalogue on-Disk is also available on PCQuest CD-ROM (Winter 95 Edition)

OVER 200 CD-ROM TITLES

For DOS, WINDOWS, UNIX, OS/2 and MACINTOSH

Simtel (2 CD Set)

Direct from Internet, over 1200 Mb (10,000 files) of MSDOS Shareware programs.

Rs. 1,650/-

CICA (2 CD Set)

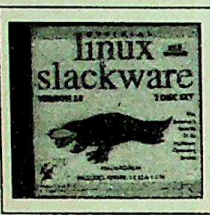
The ultimate collection of Shareware for Windows! 5120 Programs (1,320 Mb) for Microsoft Windows. Utilities, Games, Icons, Programming Tools.

Rs. 1,125/-

Black Hawk for Win 95

A complete collection of utilities, applications and accessories for Windows 95 Over 200 megabytes of shareware for Windows 95.

Rs. 1,650/-



Linux 3.0 (2 CD Set)

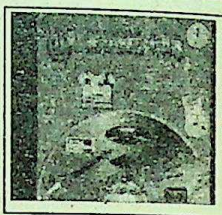
Slackware Linux is the Internet's favourite 32 bit Unix clone. Linux is compatible with most Intel PC hardware from 386 to Pentium.

Rs. 1,575/-

101 Only The Best Games #3

Enjoy a collection of over 100 latest and very best shareware games and playable demos.

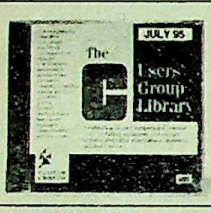
Rs. 1,300/-



Dr. Music Lab

Hundreds of professional sample music files in MID, ROL, VOC, MOD and WAV formats. Also has sound converters, players and editors.

Rs. 400/-

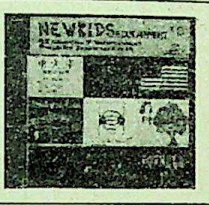


C User's Library

A collection of user supported C and C++ source code. Most of the source code is for DOS with recent additions for Unix.

Rs. 2,250/-

Ask for your copy of our CD-ROM catalogue on disk. Our CD-ROM Catalogue-on-Disk software gives you complete information including features, system requirements of all the CD-ROM titles that we stock. You also get 10 True Type Fonts and 100 B&W Cliparts Free! The Catalogue is available on 1.44 Mb Floppy Disk and is priced at Rs. 100/- The Catalogue amount is adjustable against your first order of any CD-ROM Title



New Kids Edutainment Volume #2

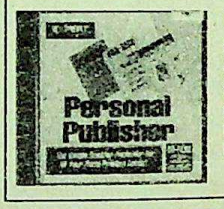
A convenient collection of 92 Education and Entertainment programs for children age 4 to 16. Also available, Volume 1 for children age 3 to 8.

Rs. 1,200/-

Corel Photo CDs - For PC & Mac

A large collection of royalty free colour corrected photographs in Kodak Photo CD format from Corel - makers of Corel Draw! Each CD has 100 stunning photographs. The collection covers a vast category of topics. We also stock royalty free photograph CD-ROMs from other vendors.

Call for pricing



Personal Publisher

Make everything you print look better! From simple signs and flyers.. to dazzling full colour documents. The desktop publisher for all your home needs! For Win 95 and Win 3.1x

Rs. 1,100/-

Business Library

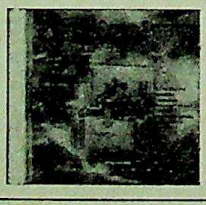
Hundreds of Business specific programs to help any business. Includes reference book describing all the programs. For DOS

Rs. 2,000/-

2000 Fantastic Fonts

2000 Fonts in True Type and Postscript Type 1 format. Easy to install and fun to use. For Windows 95 and Windows 3.1x

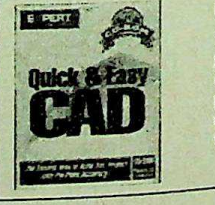
Rs. 1,450/-



Natural Sound Effects

Over 250 royalty free stereo sound effects. 600 Mb+ Wav files. Categories include Animals, Wind, Cars, Trains, Rain, Thunder, Human Fights & more. For Windows

Rs. 900/-



Quick & Easy CAD

The easiest way to build any project with pin-point accuracy! You don't have to be professional architect or engineer to use this program. For Win 95 and Win 3.1x

Rs. 1,100/-

Over 200 titles on General / Shareware, Operating Systems, Programming Tools, Utilities, Edutainment, Astrology, Health, Fitness, CAD, Desktop Publishing, Cliparts, Fonts, Animation, Graphics, Video, MPEG II Movies, Video CDs, Photo CDs, Image Libraries, Games, Music, Sound, Macintosh, and many more

Microware Computer Services

1, Paras, Near Dr. Baliga Nursing Home, S. V. Road, Goregaon (West), Bombay 400 062 Tel : 872 74 46, 872 97 25, Fax : 872 74 46

Microware CD-ROM collection is also available at-:

RAINBOW, 41, Crescent Mansion, Opposite Gamdevi Police Station, Nana Chowk, Bombay 400 007. Tel : 389 40 50, 389 40 51 Fax: 386 09 91

DEALERSHIP ENQUIRIES SOLICITED

For Outstation Orders, 100% advance has to be remitted by Demand Draft in favour of Microware Computer Services payable at Bombay. Outstation orders will be shipped by courier. Please add Rs. 100/- for packaging and courier charges. When ordering our Catalogue, please add Rs. 25/ for shipping and packaging charges. Microware is the authorised distributor of Walnut Creek CDROM (USA), Tech Express Inc. (USA), PS Multimedia (USA) and Accurate Research Inc. (USA).

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The BOFH Chronicles

Visitors are getting pretty thin, and all've got to do is the fuli backups and maybe I can go home. So, to relieve the boredom, I get some iron filings pour them into the back of my tral until it fizzes out, then call maintenance contractors and a fault on the device. Sometimes they'll someone who knows what they're doing, it's a lot more fun when they don't— which % of the time.

Maintenance contractors always dress up because they believe you'll him your ten-dollar equipment *just* because he's a nice tie...

"You got a dud terminal?" he asks pleas-

I tell him yeah, and bring him into the ter room.

"Which one is it?" he asks, confused by the that only one of them is smoking.

"It's the Model Three" I say, giving NOTH- away.

"Ah, the old Model Three!" he says know- without a clue which the Model Three is, that I just made it up.

"We get a lot of Model Three ems" he says nodding "So what actually happened?"

Sneaky, but not good enough. not going to point it out to

"It just went dead" I say, in mode.

"I see. Could you just recreate you were doing so I can the unit out when it's ready eration?"

Very sneaky. I decide to let of the hook.

"Look. I've got to go to the there it is over there" I say, ng at our waffle-iron.

"But that's a wa..." He says, stops. He's a beginner, and possible that the com- has a line of terminals that waffle irons. He bites.

"Sorry" he says, smiling again "for a minute I thought it was a Model 2!"

Reasonably good save, but it won't save

PAL

The Bastard Operator From Hell begins his story

I leave, which means he's got to take it to bits, otherwise he knows I won't believe he's worked on it. I give him a couple of minutes to get the element exposed then wander back in.

"So how does it look?" I ask, concerned-like.

"Well, I think we could have a processor problem.." he says concentrating on prying the element up.

..concentrating so much that he doesn't notice me plugging the iron in.

"Shouldn't you be wearing an earthing strap?" I ask innocently.

When he thinks I can't see, he creeps his hand over to the wiring frame and says "Well, It's just as easy to hold onto earth like this"

"But what about the risk of a cross-the-body shock with no resistor in series with you?" I ask ever-so-more-innocently

"Oh, it's ok" he says "the unit's unplug..."

click *BZZZZZZZEEERRT!* *clunk!*

I ring the maintenance help-desk again... It's Rhonda

"Hey Rhonda!, Ah, I'm going to need another engineer and a new waffle iron over here; for some reason your engineer opened up my waffle iron without switching it off." I say

Rhonda knows me. It's the third call and the third appeasement engineer. "You're a real bastard" she says, annoyed.

"Tell ya what Rhonda, why don't you come and fix it; it's a Model Three..."

I'm still bored.I quick-lime the engineer to re-move any fingerprints and then FedEx him back to headquarters and set about waiting for the new engineer.

Now the second engineer only has to come out after another four hours, there's no death-of-engineer penalty clause (but I'm thinking about asking for one) so I've got to fill in some time. This guy's going to be a technical engineer, the sort that comes in with a raggedy tie where he got it caught in the drum printer at 3,000

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

rpm a couple of years ago, and he'll have the grazes on the face that indicate that he didn't get the gate open in time...

I know those sorts...

So I fill in a couple of hours by killing users off and deleting their files, then waiting for them to call...

"Um, I can't find my files," the whimpering simp on the phone says

"Files? What files?"

"The files in my account. My thesis, my research - all gone!"

"Gone ay? What's your username?"

"TURGEN. T-U-R"

"OH Turgen, like TURD, but with a GEN instead of a D... Ok lets see" I make vague clicking noises my dragging the quicklimed man's fingers back and forth across the key-pad. "Uh-huh" *drag drag* "Yeah.." *dragedy poke* "AH! - You haven't got any files"

"I KNOW!"

"Well, what are you calling ME for? We don't make the files you know, we just look after them. And chopitty-chop too, your thesis looks like it's due in a couple of days.."

I hang up - he'll call back. Meantime I open up a copy of "VMS BASTARD OPERATORS MANUAL FROM HELL" I'm reading the article I sent in about getting rid of those trouble users... "... Modify the user's password minimum from 6 to 32 letters, give the password a 1 day lifetime, set it so that they HAVE to use the password generate utility when they change their password (so their password will always be something that looks like vaguely pronounceable line-noise), add a secondary password with the same as the above, then redefine their CLI tables so that the only command that works is DELETE, and all other commands point to it."

Beautiful. Hey, I'm good.

He calls back.

"MY FILES ARE GONE!" he screams, panicking. "Did you have a backup?" I ask, as sweet as pie "But that's what you people are supposed to do!" he sobs "Yeah, well we did - but then we switched to those 8 mm tapes, and they're the same size as the ones in my video camera, so I've been using them to tape the neighbor's romps with his wife..."

I hear the revolver go off, but what the hell, it's 5 pm, and not my problem...

It's backup day today so I'm pissed off. Being the BOFH, however, does have it's advantages. I reas sign null to be the tape device—it's so much more economical on my time as I don't have to keep getting up to change tapes every 5 m... And it speeds up backups too, so it can't bad can it? Of course not.

A user rings

"Do you know why the system is s... they ask

"It's probably something to do wi... look up today's excuse "...clock speed"

"Oh." Pause. "Do you know when it w... fixed?"

"Fixed? There's 275 users on you... chine, and one of them is you. Don't... selfish—logout now and give someone e... chance!"

"But my research results are due in t... row and all I need is one page of laser p...

"SURE YOU DO. Well; You just keep s... yourself that buddy!" I hang up.

You'd really think people would lea... to call..

The phone rings. It'll be him again. I... That annoys me. I put on a gruff voice

"HELLO, SALARIES!"

"Oh, I'm sorry, I've got the wrong n...

"YEAH? Well what's your name bud... you know WASTED phone calls cost m... DO YOU? I've got a good mind to subtra... wasted time, my wasted time, and the t... this call from your weekly wages! IN F... WILL! By the time I've finished wi... YOU'LL OWE US money! WHAT'S Y... NAME—AND DON'T LIE, WE'VE GOT CA... ID!!"

I hear the phone drop and the sou... running feet—he's obviously going to t... get an alibi by being at the Dean's office... up his username and find his depar... ring the Dean's secretary.

"Hello?" she answers

"Hi, SIMON, BOFH HERE, LISTEN, I... THAT GUY COMES RUNNING INTO ... OFFICE IN ABOUT 10 SECONDS, CA... GIVE HIM A MESSAGE?"

"I think so..." she says

"TELL HIM HE CAN RUN, BUT HE ... HIDE.'"

"Um. Ok"

"AND DON'T FORGET NOW, I WOU... WANT TO HAVE TO TELL ANYONE A... THAT FILE IN YOUR ACCOUNT WITH ... ANSWERS TO THE PURITY TEST IN ..."

I hear her scrabbling at the termin...

"DON'T BOTHER—I HAVE A COPY ... GOOD GIRL AND PASS THE MESSAGE ..."

She sobs her assent and I hang up. A... worst thing is, I was just guessing abo... purity test thing. I grab a quick copy an... might make for some good late-night r...

John W Fox. From the

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

MANAGING EDITOR — SHYAM MALHOTRA
EDITOR — PRASANTO KUMAR ROY
ASSISTANT EDITOR — GOVIND MENON
SUB-EDITOR — ASAWARI KETKAR
REVIEWS ASSISTANT — MOHAN SINGH BIST
CONTRIBUTING EDITORS — ATUL CHITNIS, GAUTAMA AHUJA, VIJAINDER K THAKUR

BUSINESS MANAGER — VENAYAK BHATNAGAR
CIRCULATION & COORDINATION MGR — ASHOK GUPTA
AD COORDINATOR — SHAJI GEORGE
CIRCULATION COORDINATOR — RAJINDER
ACCOUNTS MANAGER — MADAN M SINGH
SR COMMERCIAL EXECUTIVE — ANIL KUMAR BHATIA

DESIGN & PROD MGR — ARUN SHANKAR
JR DESIGNER — REMA MARAR
JR DESIGNER — PAL SINGH
ASST MANAGER DTP — T SRIRENGAN
SR DTP OPERATOR — DIGAMBER PRASAD
DTP OPERATOR — JOSE PM
DTP OPERATOR — ALOK KUMAR SHARMA
SR PRESS EXECUTIVE — VIJAY NAGRATH

BANGALORE
GENERAL MANAGER (SOUTH) — E ABRAHAM MATHEW
REVIEWS COORDINATOR — BALAJI N
ASST MGR ADVERTISEMENTS — SRINIVAS AGNIHOTRI

MUMBAI
REGIONAL MGR (WEST) — HOSHIEDIAR GHASWALLA
ASST MGR ADVERTISEMENTS — SUDHIR VALVARA
SR MARKETING EXECUTIVE — RUPA L NATHANI

CALCUTTA
BUREAU MANAGER — PARTHA P BANERJEE
SR BUREAU COORDINATOR — SUJATHA KRISHNAMURTHI

DELHI
ASST REGIONAL MANAGER (NORTH) — T N PRABHU
REVIEWS COORDINATOR — MEGHNA RELAN
SR MARKETING EXECUTIVE — YOGESH WADHWA

HYDERABAD
SR MARKETING EXECUTIVE — KRISHNA RAO
MARKETING EXECUTIVE — S SUBHA

MADRAS
ASST BUREAU MANAGER — ANIL KUMAR R

EDITORIAL OFFICE
D-74 PANCHSHEEL ENCLAVE, NEW DELHI 110017. ✆ 6433999, 6413938 FAX: 11-6475765.

BUSINESS OFFICE
D-74 PANCHSHEEL ENCALVE, NEW DELHI 110017. ✆ 6433999, 6413938. FAX: 11-6475765.

REGIONAL OFFICES
4th FLOOR, MBC, 134 INFANTRY ROAD, BANGALORE 560001. 5511511, 5568238. FAX: 80-5562971.
Jain CHAMBERS, 577 S V ROAD, BANDRA, MUMBAI 400050. 6427010, 6450050, 6450051. FAX: 22-6403986.
SURYA'S BUSINESS CENTER, GND FLOOR, 233/3 AJC BOSE ROAD, CALCUTTA 700020. ✆ 2471285.
SRI MEGHDOOT, 94 NEHRU PLACE, NEW DELHI 110019. 6413515, 6411682. FAX: 11-6476664.
ROOM NO.12, 5TH FLOOR SRINATH COMMERCIAL COMPLEX, S.P. ROAD, SECUNDERABAD 500003. ✆ 848121. TLX: 0425-6105 SSPA IN. FAX: 41-816960.
3RD FLOOR GUNA BUILDINGS, 304/305, MOUNT ROAD, OPP. SPENCER'S, MADRAS 600018. ✆ 459498. FAX: 44-8252828.

Published by Pradeep Gupta on behalf of Cyber Media (India) Ltd. 510 Meghdoot, 94 Nehru Place, New Delhi 110019. Tel: 6413515 TLX: 031-71344 INDQ. and printed by him at Sahara India Mass Communications, C-2, Sector 11, NOIDA 201301.
Annual subscription:
Rates: Rs 240 (1 Year) Rs 450 (2 Years) 630 (3 Years). Add Rs 15 for outstation cheques).
Foreign: US$ 60 (airmail).
For payments favoring: CYBER MEDIA (INDIA) LTD.
Distributors in India: Mirchandani & Co, Bombay.
All rights reserved. No part of this publication may be reproduced by any means without prior written permission.
PCQ is not responsible for unsolicited manuscripts.
PCQ Online: 011-8221734 [Modem: 14,400 bps, N81]
Internet: pcq@pobox.com
Cover Design: PCQ

LEADING EDGE

PRASANTO K ROY

When Opportunity Is Spelt W-W-W

It's no revelation that the Net is hot today, even in India. There's not just quite a bit of general media attention to the Internet and BBSes in India, but also a stream of people—journalists, research scholars—coming into India to study the impact of online infotech and the Net on Indian society.

Several of these have commented on one phenomenon: there's so much of India on the Web, but how come all those hundreds of sites are all sitting in the US?

Starting a Web site in the US is usually a matter of getting in touch with one of the thousands of Web hosts, paying the monthly fees, which begin at $50, and putting up your pages.

And so, while Indians have been very active on the World Wide Web, it's always been outside India. There are few Websites within the country. For those who proclaim that location doesn't matter on the Internet, the fact is that a Web site that's about one country but is sitting halfway across the world from it can offer neither the flavor nor the authenticity of a site within the country. So when those seriously surfing the Net for Indian sites look around, they look for .IN sites, not the ubiquitous .COM ones.

But Indian companies are getting active now, beginning with getting their own domains registered, usually .COM domains in the US. More interestingly, quite a few companies and even more individuals in India have begun to offer Web publishing 'services'—from HTML page creation to domain registration to hosting the Web pages, usually on a third-party system.

The potential buyers are many, with all the statistics you can get to see—1,000 Web-page hits in a week, and so on. But to go beyond the sex-appeal of an URL in your newspaper ads, it will take WWW-experienced professionals to seriously understand "Webonomics" and apply it well. So that a Web site is useful, visited by the right people, and effective in communicating specific products or services. And it will take good designers, to understand those ideas and implement them in effective Web pages.

With a fair amount of talent in most of these areas, if not in the Web experience itself, expect to see Web site services become a hot area in India by end-1996. Like an ad agency, a Web services company requires low investment. An intelligent designer and copywriter and manager, a VSNL TCP/IP account, and some hardware and software are a great starting point. From there to related areas, such as CD-ROM content creation, isn't difficult.

But the rules of the Web game are very different from commerce or advertising as we know it. Those who get into it now, when the market isn't quite lukewarm yet, will make a killing when the Web really takes off in India, within this year.

With this issue ships a CD-ROM, the third of a promised once-a-quarter PCQ series, containing a powerful UNIX operating system in a freeware flavor.

Linux is among the world's favorite UNIX flavors today. With the 50,000 copies of this PCQ CD-ROM, there will suddenly be more physical copies of Linux with individual Indian users than Windows 95, or any other single flavor of UNIX.

The popularity of Linux grew immensely through and over the Internet. Its availability and distribution was enhanced worldwide through the Net, and its development was enhanced by feedback from thousands of users over the Internet. Many Internet boxes and WWW servers survive on 486 and Pentium systems running Linux. It's little wonder that Linux also reflects the basic flavor of the Internet: a powerful, free, shared resource built on contributions from across the globe.

PKR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LINUX, PLEASE!

I am sure that Joseph B Andrew (Readers Forum, December 1995) spoke for a large number of UNIX lovers in India, including myself, when he requested for Linux in the next CD-ROM. People like us, who have been using UNIX for a long time in their professional capacities and have been hooked by its exceptional qualities, long to use it on their home computers too. Unfortunately, we are put off by the prohibitive costs of the commercial versions of UNIX.

Linux 1.1 may be a very reasonable alternative for us. Although Linux 1.1 is a freeware and can be downloaded from the Internet, that source is quite out of reach for most individual computer owners in India (VSNL GIAS notwithstanding), much more so than the shareware available on the PCQ BBS. You would, therefore, do a great service to this large group of dedicated IT enthusiasts if you include Linux 1.1 (plus a handful of sharewares to try out) in PCQ's Spring CD-ROM.

While on the subject of PCQ's CD-ROMs, I would like to point out something rather disappointing. We know that the prime objective behind distributing CD-ROMs is to give the multimedia business in India a much-needed boost. Your efforts are definitely having the desired effect on the users, as is evident from the flurry of appreciative letters to the Readers Forum. You readers would not be so enthusiastic about the free CD-ROMs unless they have already bought or are planning to buy multimedia hardware pretty soon.

However, it is doubtful if your efforts have had a comparable effect on software publishers and vendors in India. Their response is lukewarm at the very best. Since September, I have sent written enquiries to several vendors about Windows 95 on CD-ROM, but not even one has even shown the courtesy of a reply! In fact a full-page ad in the December 1995 issue of PCQ offered Windows 95—but only on floppies. Is this problem peculiar to Windows 95 alone? I seriously doubt it. I invite observations from you and fellow PCQ readers on this subject.

Subhendu Joardar
Calcutta, WB

As for Linux, you've got it. With this issue. And Linux Kernel 1.2, not 1.1. Watch out for more utilities and updates in future PCQ disks.

We agree about the low availability of Windows 95 and other software on CD-ROM. It's wasteful, and not very progressive, for vendors to hold back CD-ROM version of software from Indian shelves. We expect this to begin to change in 1996. Windows 95, incidentally, is indeed available on CD-ROM in India—though at a very few places.

PUT THEM HEAD ON

I am a 19-year-old architecture student from Bombay and I've been reading PCQ the past couple of years.

I have some suggestions on your reviews. I've noticed that British video game magazines, which cater to teenagers, have a very professional review system, and I feel that you should try to take a leaf out of their book.

Their reviewers classify every game they review under the following heads: type of game, number of players, price, manufacturer, release date in England, options, origin/history, controls.

A game is judged on five parameters: presentation, the graphics used, sound, its playability and its life span. An average of these parameters is used to determine how good a game is. Members of the editorial staff also express their opinions of the game. In some magazines the playability factor itself is broken down into four parameters: the strategy required, the action involved, the challenge provided and the reflexes required. If the game being reviewed is similar to another one already out on the market, both games are compared and a judgement is given as to which is better.

Back to PCQ. Your review of the HP DeskJet 400 (November 1995) was informative and was written in a peppy style. But as it compares, or to quote "competes head-on with the low-end Canon BJ 10/20 series" it would have been nice to have a comparison.

The BJ-10 series was reviewed back in May ... Readers like myself ... recall this and many ... started following PCQ ... after May 1994. The comp... son could have been ba... the following parameters ... color, black-and-white ... quality, speed at which ... printers function, their ... lution, price, price per ... economy, paper han... characteristics, buffer size ... their physical size.

I agree that a mag... cannot make an abso... choice or comparison ... reviewing hardware. If ... sumers are to be left to m... their own choices, then ... better to give them all ... information about two sim... products, so that they ... make a well-informed de... sion. What I'm trying to sa... that features such as the ... quality of material printed ... two printers can be compa... because either the mate... produced by both printers ... equally good or the mate... from one printer is better ... the material from ano...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Now, work wonders with

Studioworks

36 CM (14") AND
38 CM (15")
MULTIMEDIA
COLOUR MONITORS
& CD-ROM DRIVES
FROM

GoldStar

Computer Products

Goldstar's internationally acclaimed Studioworks 44m and Studioworks 56m multimedia colour monitors are here! With **front-panel mounted speakers, built-in amplifier** and **earphone jack** to give you rich, vibrant stereophonic sound. With **dark glass, non-glare screen** to give you bright, vivid, high resolution images. The benefit of **multi-synchronous compatibility** with a wide variety of video controllers in non-interlaced modes. Plus, **EPA Energy Star, VESA DPMS, NUTEK** and **MPR II** compliance with anti-static coating to give you lower operating costs and higher operator health and safety. But that's not all. Studioworks 56m also gives you a flat square tube with **Mic-in/Mic-out**, Miniplug micro phone besides **Windows '95 Plug & Play, Memory Modes, Auto-scanning,** and Adjustable **Digital Control** facility with **On-screen Display.**

Goldstar Studioworks 44m and 56m multimedia monitors... delivering the best value, performance and reliability possible.

Introducing
GOLDSTAR 1467
Non-Interlaced
Colour Monitor

Also Available:
1527 15" (38cm)
1727 17" (43cm)
2010 20" (51cm)
Colour Monitors

Brought to India by:
ADITYA PROMOTERS PVT. LTD.
Khemka Centre, DDA Building, 2-5 Nehru Place, New Delhi-110019. Phone : 6223810, 6223811, 6227979.

ADMN. OFFICE: 4428, Ganesh Bazar, Cloth Market, Delhi-110 006. Ph.: 2511850, 2514079 Tlx.: 031-78215. Fax: 011-2931082/3261456.
BRANCH OFFICE: M.K. Bhawan, 89, Mint Road, Fort, Bombay-400 001. Ph.: 2692583, 2678872. Tlx.: 011-81174 Fax: 2695152.

Branches at : ■ **AHMEDABAD** • Ashtech Ph.: 6423532, 6427099 • Third Wave Ph.: 467974, 440215 ■ **AMRITSAR** • Computer Associates (India) Ph.: 222282 ■ **BARODA** • Aash'nik Ph.: 327177 ■ **BANGALORE** • Vintel Systems Pvt. Ltd. Ph.: 3310080, 3440423 ■ **BHOPAL** • Multivison Ph.: 554089, 553350 ■ **BOMBAY** • Ashtech Ph.: 4963311 • Mintas Mktg. Ph.: 2650179 • Twinhead Ph.: 5620369 ■ **CALCUTTA** • Prosys Ph.: 2481584 ■ **CHANDIGARH** • Kapoor Trading Ph.: 548114 ■ **COCHIN** • Unisoft-IBS Pvt. Ltd. Ph.: 362742, 361631 ■ **DELHI** • Albit Electronics Ph.: 3747275, 3747276 • Groovy Communications Ph.: 6461994, 6213875 • Kadam Mktg. Ph.: 5763030, 5789973 • Micro Systems Ph.: 4622054, 4635033 Sparrow Micro Electronics Ph.: 555817 ■ **INDORE** • Friends Computer Ph.: 494073 ■ **JABALPUR** • Computer Bazar Ph.: 28798 ■ **JAIPUR** • Asian Techno Traders Ph.: 601953 ■ **JALANDHAR** • Regional Computer Systems Ph.: 239152 ■ **JODHPUR** • Computer Trade and Consultancy Ph.: 27958 ■ **LUCKNOW** • Lucknow Computer Shack Ph.: 226576 Ph.: 26240 ■ **MADRAS** • Genetic Computers Ph.: 4348919 ■ **NAGPUR** • Astral Enterprises Ph.: 539558 ■ **PATNA** • Graphic Trades Ph.: 651740, 659372 Technologies Ph.: 631157 ■ **RAIPUR** • Raipur Computer, Ph.: 29091, 25004 ■ **SECUNDERABAD** • Reliance Ph.: 815779, 527755 ■ **UDAIPUR** • Vardhman Computers Ph.: 414543.

*Goldstar is the registered trademark of LG Electronics Inc.

DEALERSHIP ENQUIRIES SOLICITED

adcircle

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Such comparisons can be made by the magazine, and consumers/readers can buy various products based on their needs.

This aside, I think your magazine is excellent and quite informative for the general public.

Amit Mantri
Bombay, MH

We do look at issues like that in our comparative reviews. However, often you we get standalone products—such as the DJ 400—that are new, and have no recent competition. In such a case, it is difficult to identify a reference product to compare them with (except in some product categories, where the reference or market leader is clear).

However, you do present a user requirement very well, and we're asking PCQ Labs to determine whether such comparisons can be consistently implemented in standalone reviews.

—Ed

NEWSSTAND FRIENDLY

I've been reading *PC Quest* for many years, and I've always appreciated your lack of discrimination between newsstand buyers and subscribers when it comes to the distribution of free software. Other magazines also distribute shareware, demos or evaluation packages, but only to subscribers, whereas PC Quest distributes CDs to all its readers, even the newsstand buyers, at a slightly higher price. I would like to thank you for this.

But what you should really do is to sometimes distribute the smaller apps on floppies so that the PC owners who do not have CD-ROM drives can also benefit.

You could also provide a complete database of the CD-ROM's contents in a tabular format in the magazine.

It would be a good idea to include uninstaller utilities on the PCQ CD. Some batch files or just a text file with instructions on how to uninstall an application easily would be very useful. Such batch and text files are freely available as shareware.

Could you publish the complete addresses of your contributors and readers writing to Readers Forum and Help Screen? This will make it easier for us to solve problems amongst ourselves, and we could come up with different, effective or easy solutions to problems discussed in these columns. As a case in point, I'll mention the reader who wanted to disable a screen saver temporarily, and was asked to follow a tedious procedure, whereas the answer was there in Brian Livingston's book and had been published as an extract in PC Quest ("Finding Secret Hotkeys", Sep 1995).

Minaxi Chandarana
Baroda, GJ

Unfortunately, most of the applications are so large as to make floppy-based distribution unfeasible. Further, the cost per MB for floppies is prohibitive. Considering that the cost of the CD-ROM and distribution is subsidized by advertising, this would be very difficult to achieve in the limited space on a floppy—and it would thus be difficult for us to give free or nearly free.

The CD-ROM is documented in the issue that it accompanies, though we're working on improving this. As for reader addresses, we do publish them when the authors of letters solicit replies from readers—but most authors aren't keen to have their addresses published. We are, however, considering carrying e-mail addresses.

—Ed

My machine got infected with the DH2 virus. I decided to use Nashshot that had been rated as the Users Choice in PCQ. I was not aware of a Nashsoft product distributor in Nagpur so I requested a friend in Bangalore to buy it for me. He purchased Nashpak as it was the only way one could get Nashshot. The price tag of Rs 5,500 hurt but I had committed myself.

When I tried to install Nashshot from the diskette, after having installed other modules, my computer gave a non-Nashsoft diskette error.

After trying over 10 times, I gave up and sent the diskette, foolishly enough with the original bill, and other documents by speed post to Nashsoft in Bangalore explaining the matter. I did not receive a reply. I sent another letter which too went unanswered. Finally I threatened to go to the Consumer Court for redress of my grievance. Thereupon I received a phone call from their Nagpur distributor telling me they would look into the matter at once. After that no response. A friend of mine working for ICNET in Nagpur offered to talk to them again. Thereupon I again received a phone call telling me they would send somebody the same afternoon. This "same afternoon" was more than a week ago.

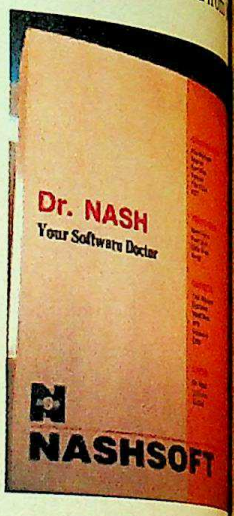
To be honest I regret ever having heard of Nashsoft. I'm disgusted with the whole affair. It certainly shows poor business sense and utter callousness towards its customers.

Frank M Juelich
Nagpur, MH

NASHSOFT REPLIES:

We value our customers and it is our constant endeavor to provide them with high quality products and technical support at all times. How... to enable us to serve ... better we expect them ... low a few procedures. ... regard to Mr Juelich's e...

We did not receive the ... uct registration card fro...



Juelich. Hence we didn't k... from where he had proc... the software and if he ... using a legal version.

Generally, we do not p... vide any technical supp... until the product has b... registered with our datab... department. However we ... out of our way to help ... Juelich by informing ... Nagpur branch to attend ... his problem. Contrary to ... Juelich's claims our pers... nel did meet and solve ... problem.

The package has been ... placed and he should not ... having any problem in ... future.

It is surprising that in s... of advertising so many ti... that we have a branch ... Nagpur, Mr Juelich didn't ... tact our branch office.

To ensure that at any p... of time a Nashsoft prod... user has some form of ass... to a complete solution we ... direct, voiceline and 24-h... BBS support.

Rannjit Chatte...
NashSoft, Bangalore

Note: A very effective cu... the DH2 virus, CureDH2, is f...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SAVE Rs 80,000!

(ONLY UPTO MARCH 15)

SCO

- Cross-platform interoperability with TCP/IP, POP support.
- Mainframe class reliability.
- High productivity graphical environment.
- US Govt C2 level security.
- RAID 0, 1, 5 support.
- Runs on over 900 business platforms.

UNIPLEX

- A new Informix 5.0 Standard Database Engine.
- Access to the Internet through electronic mail.
- Flexible user licensing.
- Inclusion of Advanced Graphics System capability.
- A new object-oriented Windows 3 style File Manager.
- Automatic document format recognition facility.
- A print queue management utility.

Now, you can get a 5 user Uniplex V 8.1 Office Suite, along with every 5 user SCO OpenServer Enterprise System Rel 5 for just Rs 86,000. Which simply means that you get the world's No.1 integrated UNIX based office automation software; alongwith the world's best-selling Intel based UNIX operating system; at approximately half the price! If you act fast, that is.

To book your copy, call any of our numbers below. It may be the most profitable call you ever make.
Bangalore Tel: 528 4681/82. Fax: 528 4491. **Bombay** Tel: 821 6466/67/68/69/70. Fax: 821 6463.
Calcutta Tel: 247 1296/2169. Fax: 247 2514. **Delhi** Tel: 331 7218. Fax: 332 2294. **Madras** Tel: 827 9808. 828 5666. Fax: 825 6075. **Pune** Tel: 628908/09. Fax: 625526. **Secunderabad** Tel: 780 6927/28.

TATA UNISYS

TATA UNISYS LIMITED

Trademarks are the property of their respective holders.

NETWORK ● TUL56R

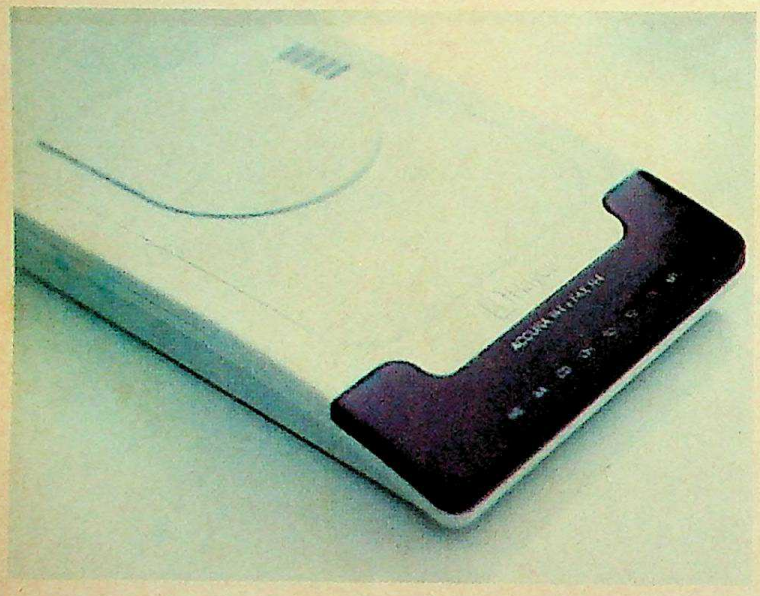
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

available as a freeware utility on the PCQ CD-ROM on this issue.

—Ed

We read with interest the review of the Hayes Accura 144 in December 1995. As you must be aware Datamatics is currently the exclusive authorized distributor for Hayes products in India for marketing and supporting their datacom products, for the last couple of years. Datamatics has a wide network of channel partners



and resellers in all metros and major cities. We believe we were not approached by your publication for inputs for this review.

1. It is our experience that customers do not have to set S10 register at all, and S10 values are generally very low. The customer has to worry about setting of S10 registers only when the telephone line conditions are very poor.

2. When the modem recognizes that the signal quality has dropped the modem may initiate a retrain or rate renegotiation. The procedure is to try a retrain first. If that does not yield acceptable signal quality or frame error rate, the modem will try to renegotiate at lower speed.

We believe that data compression is not possible in case of an already compressed file or EXE file. May we request you to let us know the condition under which through puts of 150% and 200% efficiencies are achieved according to you are normal.

3. It appears that the modem tested by you did not have the latest version of Smartcom for Windows LE version 1.1C. We are encouraged by your comments on the Smartcom Fax software. For your information the following are the new features of version 1.1c: you can now send additional setup strings to your modem; you can receive files while in another app; You can scroll through any information on the screen and cut and past selected text.

You must be aware that recently Hayes have announced the voice, data and fax features their Optima range of business modems. We have separately sent you a letter requesting you to let us know how would like to evaluate the modems.

Mohan B Rao
Bombay, MH

PCQ Labs recommends an S10 register setting of 150 to 200 on Indian lines, especially on lines that have the 5-minute beep or on noisy lines. For instance, most VSNL GIAS users report connection loss after five minutes online, even on very good lines. This can happen when either one of the two modems involved does not have an adequately high S10 setting.

MNP5 or V.42bis compression is visible and consistently verifiable on any compressible files. It will work only marginally on .GIF, .JPG and .ZIP files, but will work on most .EXE files (unless they are PKLite-compressed or a self-extracting archives, etc).

If you send a .BMP or .TXT file on a 2,400 bps connection with Zmodem (ensuring that your serial port speed is kept to 19,200 bps), you will speeds of 400 cps or higher, representing close to 200 percent efficiency. More often, this comes into play when viewing menus, or reading text files online—you'll notice a dramatic difference between 2,400 with and without compression.

—Ed

SUBSCRIBER UNFRIENDLY?

I'm a subscriber of your magazine since July last year. Last month I complained about not receiving the August issue with the PCQ 100 CD-ROM. An announcement in the September 1995 issue upset me deeply. It said: "We are unable to replace any more copies of this issue...we will extend your subscription by one month."

When a reader subscribes to a magazine he/she doesn't do that merely to get the magazine at a lower rate or to get freebies, but to get the magazine on a regular basis.

If you say that I haven't received the August issue due to problems with the postal service, how is it that I've regularly received copies of other magazines to which I've subscribed? I'm not as interested in the CD-ROM in the 100th issue of Quest.

The subscription re... sent to me clearly menti... that a free replacement ... possible but in this anno... ment you've denied that ... sincere suggestion is that ... should consider your ... scribers first, not the fo... sold on news stands.

What I'm saying is ... whether or not you send ... your second CD, please ... your magazine, and ple... don't make promises you ... keep.

Anita Saba...
Jeypore, ...

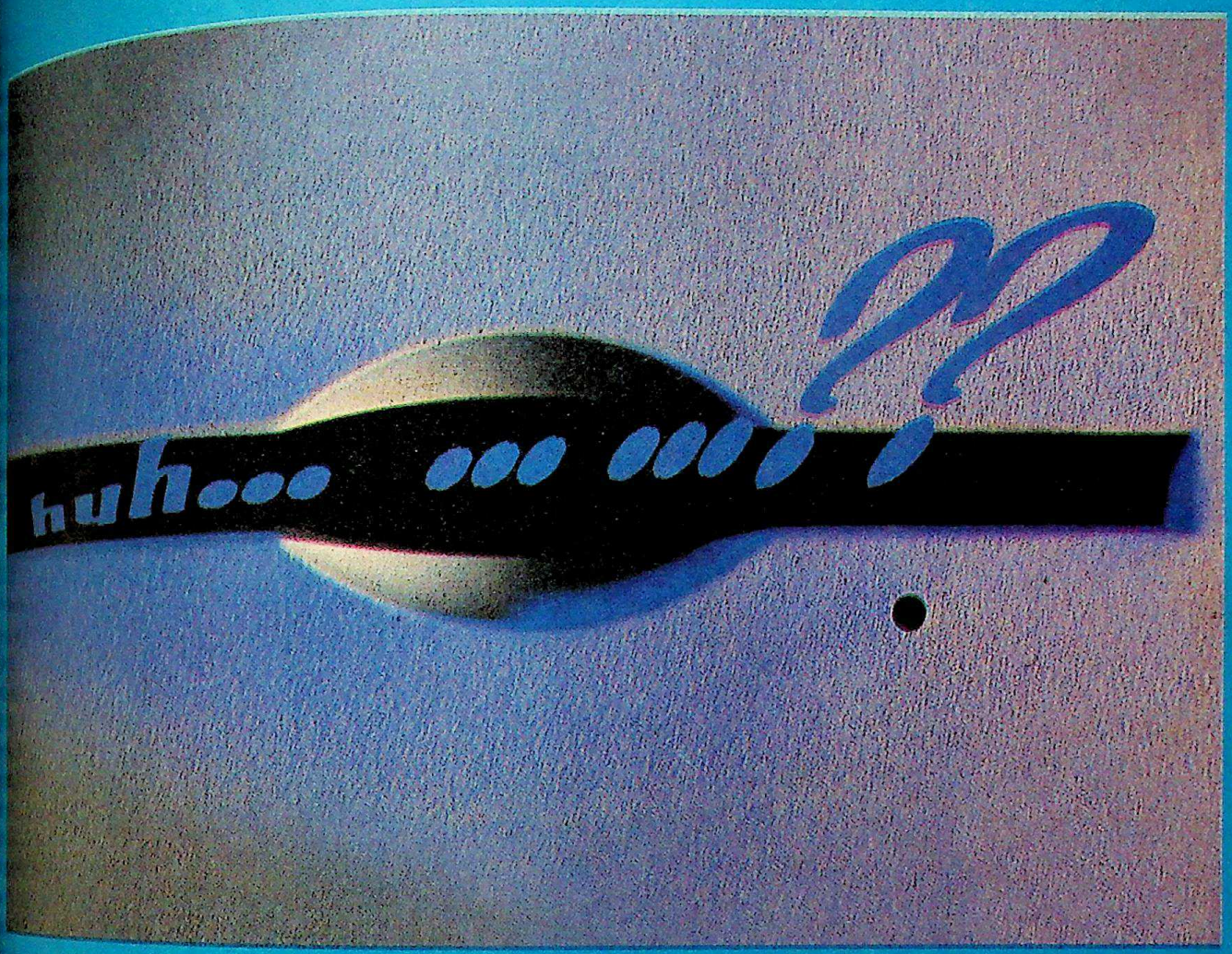
The August issue, PC... 100th issue and the first wi... CD-ROM, took us rather by ... prise on both counts of re... response and postal probl... The fact that we carried, fo... first time, a full-page letter ... the editor about this partic... issue suggests that there w... something extraordinary ab... Though we kept twice the norm... number of "spare copies" ... disks, we quickly ran out of ... with hundreds of readers w... in with non-receipt compl... After 500 replacements, we ... out of the issue, hence the ... precedented announcement.

So while your question ... good one, the fact is that we ... never faced as many non-del... problems with any other issue ... we did with the CD-ROM iss... So before we're judged ... harshly on this, consider that ... was the first time ever in India ... a CD or CD-ROM was g... mailed free with a magazine ... we had no precedents to g...

Now we do, and we ... want all that to happen again ... we've taken steps to ensure ... it doesn't. We switched to ... courier delivery for subscri... in nine cities and towns. ... postal complaints have ... been fewer, and we've been ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Let's make things better.

Don't let your computer suffer memory loss. Give your floppy drive its inputs on truly international Philips floppy disks. With a very high clipping level, every Philips disk exceeds ISO and ANSI standards for extra and missing pulses. Eliminating the chances of memory loss and missed data signals. And, best of all Philips high performance 3.5" and 5.25" HD floppy disks are now available in India.

PHILIPS

PHILIPS

6940/02

For product details contact: **DELHI:** Philips India Ltd., CE–ACCESSORIES, 68, Shivaji Marg, New Delhi - 110 015. Mr.J.P. Srivastava. Ph: 5437200, 5469690. Fax: 5442402. **Distributor: M/s Amrit Ras.** Ph:5717648, 5728404. **Shiba Comp.** Ph: 7213279 • **BOMBAY:** Philips India Ltd., CE–ACCESSORIES, Band Box Building, 254-D, Dr. Annie Besant Road, Worli, Bombay- 400 025. Mr. Verma. Ph: 4935813/4930311. Fax: 4950304. **Distributor: M/s Aksha Enterprises.** Ph: 5573537. **Shiba Comp.** Ph: 7571731.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

prepared to handle the remaining ones.

—Ed

It would be a great help to readers if the next CD-ROM could carry all the queries and answers from Help Screen, just as the August CD-ROM carried the products database. It would be useful to the 'dummies' to whom you have addressed your December 1995 editorial.

Anurag Deu
Kalka, HR

I would like you to include the following in your PCQ CD-ROMs: DTP software, a good accounting package, fonts and clipart, and a multi-lingual software.

KM Prabhu
Mangalore, KT

Y2K: NO PROBLEM!

I'm a third year computer engineering student. I have a solution for the year 2000 date problem. The trick is similar to the one used to prevent your system from viruses which gets activated on a particular date. On 31 December, 1999 change the BIOS date to something that starts from 2, like 2000. After the clock ticks the 24th hour, the year will get incremented by one. The next day change back the date to 01-01-2000. This will work because the problem is in the BIOS' programming, which increments only the last two digits.

Ashish A Annachhatre
Pune, MH

The Year 2000 problem isn't so much a coding or technical issue as a management problem. Given a single program, and the source code, or given a single PC, and the expertise, it's a non-issue. But given the billions of lines of code in mission-critical and financial apps out there, the question is, how to implement those simple bug fixes consistently and smoothly in all of it. That's what companies are going to be spending millions of dollars worldwide trying to determine.

—Ed

Can you give me the names of some good packages for handling Income Tax calculations. The package should be able to generate confirmations, profit and loss account, balance sheet and income computations, etc.

Anand Maloo
Calcutta, WB

I have been a regular reader and subscriber of PCQ for the last 3 years. I want to organize a PC Quest Readers Club for providing access to backdated issues of PCQ.

To get information on a particular subject, readers would just have to write to me about their problems/ queries (if any) or just mention the month and year. I would send them a photocopy of the relevant section or even the entire magazine if so desired. This service would be available at nominal charges (only for postage and handling). Members would be given a discount.

The club could also help out readers who need some of the shareware available on PCQ Online, but do not have access to it. The membership fee for the club would be Rs 50 per year.

To join the club or for more information contact me at NL-4/27/6, Sector-11, Nerul, New Bombay 400706.

Dubey Ved Prakash
New Bombay, MH

WRITING FOR PC QUEST

- Articles offered must relate to products, applications or technology relevant to the personal computer user.
- They must be no longer than about 1,500 words, unless specified otherwise by the Editor in individual cases.
- PCQ does not publish program listings, except for small programs or modules illustrating a point within an article, or very short programs illustrating new or innovative techniques (in SWAP).
- Every article must be accompanied by a signed letter certifying that the article is original and is not offered for publication elsewhere.
- Manuscripts should be neatly typed or printed, on A4 copier paper. Articles on floppy (3.5" or 5.25") in plain ASCII text or standard word processor formats will be preferred.
- Please ensure that the address is clearly printed both on the covering letter *and* on the manuscript. If a floppy is sent, print the author's name and address on a label on the floppy as well as in a README.TXT file in the floppy.
- Letters to the Editor must be marked Readers' Forum and must carry the author's signature, name and address. Letters requesting information of general interest will be published with a response if necessary. We regret that we are unable to reply individually to Letters to the Editor, or to Help Screen queries.

PRODUCT NEWS

To be considered for publication, a write-up for the Product News pages *must* include all of the following:

- Name, type and price.
- Applications and target.
- Full specifications, special features, advantages.
- Availability of final, ready package: when and where.
- The name and telephone number of the person who can be contacted for further details or a demonstration.
- A product brochure.
- The write-up must be accompanied by a good black and white photograph or colour transparency. A write-up without a photograph or screenshot may not be published.
- The product must be available for demonstration and review in any of the four metros or in Bangalore.

Standard press releases without these supports will not be considered for publication.

—Editor

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

the alternative to expensive communication.

e-mail

E-mail, or electronic mail is fast proving to be the ideal medium for non interactive communication. And a cost-effective alternative to fax, telex and phone. aXcess e-mail, with its wide user base and support centres, can help you cut back your communication costs many times over.

You can send & recieve messages *locally, nationally and internationally*. What's more, you can even send and recieve faxes directly from your computer.

All you need is a computer, a modem, a telephone line (need not be a dedicated line). And ofcourse an intention to communicate!

With aXcess you automatically get Business India Online, Headlines Today, Express Computers, Airline timetables, Book Previews among others.

And you'll never be out of touch again!

now with a great offer on aXcess !!

Just fill the coupon and mail / fax it back.
(simply attach your visiting card and mail back.)

FREE!!
with every coupon followed by confirmed order for e-mail I.D.

Best of Microsoft Entertainment Pack*!!
(3 FUN-FILLED GAMES FOR WINDOWS)

*Legal copy.
3-4 weeks for delivery of gift.

CUT & MAIL / FAX

Oh yes! I am interested in this offer.

Send me more information. ☐ Have your rep call on me ☐

I understand that I'll be entitled to the free gift upon confirmation of order for my e-mail.

NAME:.....

DESIGNATION:.....

COMPANY:.....

ADDRESS:.....

.....

PHONE: .....FAX:.....

OFFER VALID ONLY TILL 31.3.96

MODEMS:

LEADING BRANDS AVAILABLE AT ATTRACTIVE PRICES.

AABHA
SYSTEMS SERVICES SOLUTIONS

AABHA MANAGEMENT SYSTEMS PVT. LTD.

22 A, MIG, Katwaria Sarai, Opp. Qutab Hotel, New Delhi - 110 016.
Ph. : 686 8923, 66 1740 Fax: 696 8767
E - mail: infotek.aabha@axcess.net.in

ANDY DIRECT/AS.61

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE TOP 10 REASONS WHY NORTON NAVIGATOR USERS WORK FASTER IN WINDOWS 95.

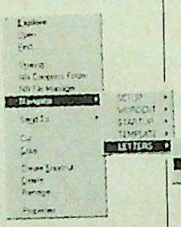
Congratulations! You're the proud owner of Microsoft's Windows 95 operating system. Working on a PC has never been easier.

Now try these ten easy exercises and see how you can work even better and faster in Windows 95 with the all-new Norton Navigator.™

~~CLICK.~~
~~CLICK.~~
~~CLICK.~~
CLICK.

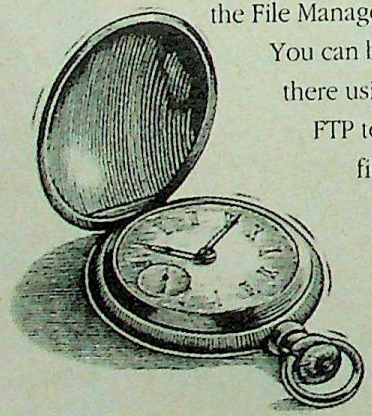
1. First, copy a file from one directory to another. Okay, now copy another file. On average, it takes about eleven steps per file. Now copy a file with Norton Navigator. Mission accomplished. One step.

2. Opening a folder in Windows 95 takes a full five clicks of your trusty mouse. But with Norton Navigator, you can open any folder with just one simple click.

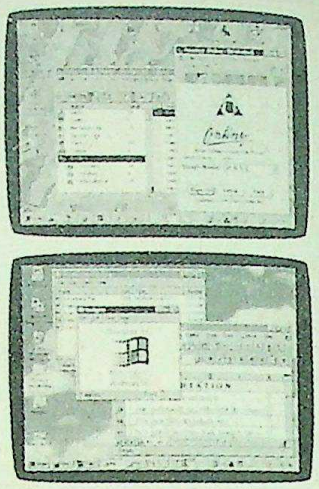


3. Compress a file. Our built-in PK-Zip compatible compression saves you a minute every time.

4. Use Norton Navigator to plug into your Internet connection right from the File Manager. You can be out there using FTP to get files in one third the time it would take you with a separate application.



5. Try a word search for "profits" or any other text string within files. It's at least ten times faster on average with Norton Navigator. No matter how many files you have. Or how big they are. In fact, the bigger the files, the more time you'll save.



6. Save another minute every time you delete, move, zip, or encrypt from any application's Open or Save dialog box. (Are you keeping count?)

7. One click is all it takes to access recently opened files or folders from any application. Now isn't that better than wading through folders?

8. Launch your favorite files, folders, or applications simply by pushing a button on the Norton Taskbar. No more going up and down to and from the Start menu over and over again.

9. With Norton Navigator you can create a different desktop for each project. So you can find your work more easily. And save even more time.

10. Windows 95 supports long file names for all of your new 32-bit applications. Norton Navigator supports long file names for most 16-bit applications, too. So you'll never again have to remember what "billgbox" means.

MAKE WINDOWS 95 AN EVEN BETTER PLACE TO BE.

Well, there you have it. Our Top Ten. But try Norton Navigator for yourself and we're sure you'll find your own favorites. Because one of the greatest things about Norton Navigator is it lets you work the way you want to work. So get your copy of Norton Navigator today.

NORTON NAVIGATOR FOR WINDOWS 95

NORTON NAVIGATOR ACCELERATES YOUR FILE MANAGEMENT IN WINDOWS 95.

Norton Navigator puts file management at your fingertips with Norton File Manager, Explorer Extension and FileAssist.

Norton Folder Navigator lets you open, copy, move or create a shortcut for any folder with just one mouse click.

Norton Taskbar features multiple desktops that let you organize your files and find your work faster.

Norton FastFind performs specific text string searches at least ten times faster than Windows 95.

SYMANTEC.

Infosys

INFOSYS TECHNOLOGIES LTD.

'Pavitra Complex', No.1, 2nd Cross, 27th Main, BTM Layout 1st Stage, Bangalore - 560 068. India
Tel: (080) 668 1755, 668 0182, 0183, 0184, 0185 Fax: (080) 668 0181 E-mail: cathy@inf.com
Branch Offices : **Bombay:** (022) 2846490, 2882911, 2882914 Fax: (022) 2846489, **Delhi :** (011) 6853258 Fax: (011) 6853366.

Infosys is the authorized representative of Symantec Corporation in India. All brand and product names are registered trademarks of their respective holders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BY ALL ACCOUNTS ITS THE FINEST ACCOUNTING SOFTWARE.

Also Available on MS-WINDOWS & LAN

WinCA - A Complete Accounting Software.

- Financial Accounting
- Inventory Control
- Sales & Invoicing
- Purchase Accounting
- Accounts Payable /Receivable
- MIS

& many more innovative features

ACCOUNTING WITH FREEDOM

SOFTEK

WORLD CLASS SOFTWARE WITHIN YOUR REACH

Softek Limited

M-42, Commercial Complex, Greater Kailash II, New Delhi - 110048
Ph. : 6415312, 6482681, Fax : 011-6482680

REGIONAL OFFICES:

- 3rd Floor, Raja Rajeswari Towers, 29-30, Dr. Radhakrishnan Salai, **Madras** : 600004 Ph. (044) 825-8804, 824-0971
- Shyam Kamal 'A' 1st Floor, Opp. Railway Station Vile Parle (East) **Bombay** : 400057 Ph: (022) 6101147, 6101170 Fax : (022) 6116756
- 1301, Brigade Towers, 135, Brigade Road, **Bangalore** : 560 025 Ph : (080) 2213853, Fax : (080) 221-7655
- 237, Jodhpur Park, **Calcutta** : 700068, Ph : 4734137

Ask for Special JFM Offer

m & m / 96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Getting More Out Of The Internet

Set up your own Web pages, do business on the Internet and much, much more

One of the pitfalls of writing for a monthly magazine is that you sometimes get caught in a "time warp"—by the time your words appear in print, things have changed.

Such was the case with the February episode of COMversations. As the magazine went to print, VSNL decided to change its Internet operations dramatically—at least in Bombay. By the time you read this, the changes will probably have appeared in other cities as well.

My apologies to those who got affected by this.

BUG FIXES

In last month's COMversations, I showed a way of getting to read newsgroups via VSNL's shell accounts. Since then, the site I mentioned (luzskru.cpcnet.com) has apparently started rejecting connects from VSNL. So use the alternative site news.uni-stuttgart.de instead. The rest of the procedure remains the same.

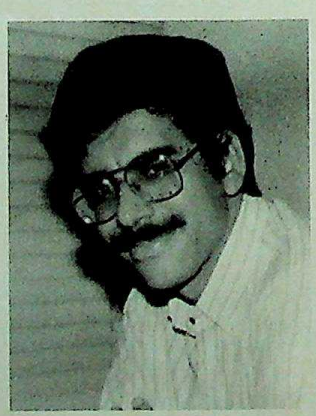
Those users who are on the Bombay VSNL server cannot delete their files because VSNL decided that its users are unworthy of the "rm" command used to do this. The truth is that VSNL has simply renamed the command to "mrr"— don't ask me why. Anyway, to delete a file, type "mrr filename".

DOING BUSINESS VIA VSNL

I receive calls almost everyday from people who wish to get their businesses onto the Internet. Almost all of them are looking at VSNL's Gateway Internet Access Services (GIAS) as the platform to achieving this.

Well, I have bad news for you—it is simply not possible to do any serious business via the GIAS—at least not in its present form. The problem is that it basically offers you connectivity to the Internet in a very limited form. I like to refer to these services as "toys"—and with very good reason. They allow you to "play around" on the Internet, but when it comes to doing serious business, they are just plain useless.

The problem is, of course, that while you can see things on the Internet using VSNL's services, people can't see you. The most common way these days to make people aware of your existence is through World Wide Web Homepages, but VSNL has made no such provision for its users not even for the ones paying through their noses for TCP/IP accounts.

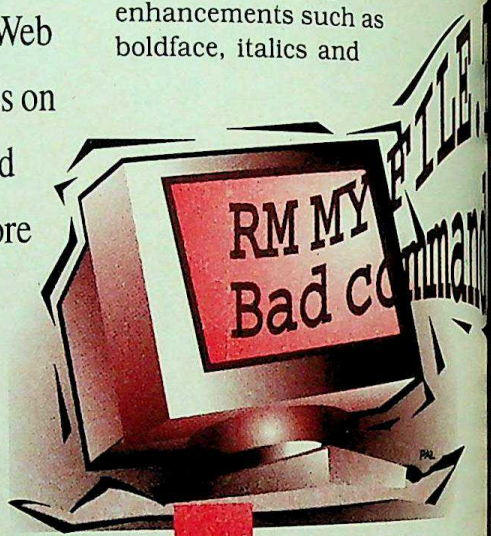


Atul Chitnis is a datacom and network consultant in Bangalore. You can reach him at atul@iisc.ernet.in or via his web pages at http://ourworld.compuserve.com/homepages/achitnis

However, not everything is lost. T... ways by which you can adver... presence, by contracting with "abr... services abroad (it will be a long ti... we see such services here in India).

GETTING WWW PAGES (ALMOST) FOR FR...

One such place is WWW.HOMELES... This service allows you to put up a homepage for free. Just use your brow... Lynx) to connect to www.homeless.... follow instructions. Be aware though t... have just a single page at your dispo... that you are limited to text-based stuff (though text-enhancements such as boldface, italics and various "headline" styles are availab...



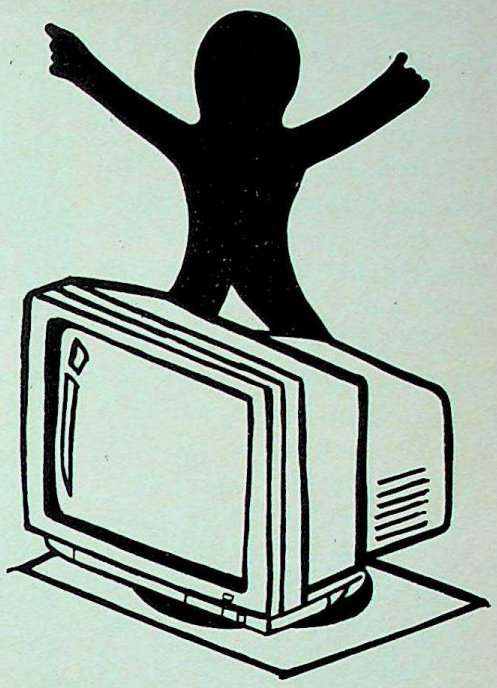
Those users who are on the Bombay VSNL server cannot del... files because VSNL decided that ... are unworthy of the "rm" comm... used to do this

You need to know how to build (HyperText Markup Language) page... This is actually quite easy. I sugges... pick up a copy of "HTML for Dumm... shed by Pustak Mahal) from your l... store. Most people will be productiv... minutes. To test your pages locall... need a web browser (such as Netsc... you can download from the web ... netscape.com). Once you have thing... get online to www.homeless.com a... your page— that's all there is to it.

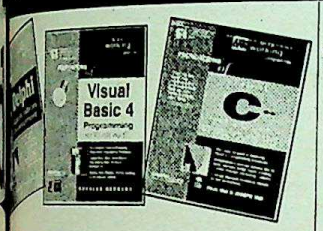
CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

uilding Blocks for
omputer Professionals
Stay on the
tting-Edge!



OUNDATIONS



G BLOCKS FOR
RAMMERS

ese high-margin Foundations series help the
r master the art of power -programming. The
des him through the Introductions and user-
n Applications and Advanced Techniques.

**ndations of Delphi
ication Development**
Swan

ok provides working programmers a complete
Delphi that helps create programs as powerful
ient as ones written in C and C++
Price: Rs. 345 (with disk) 450 (with CD-ROM)

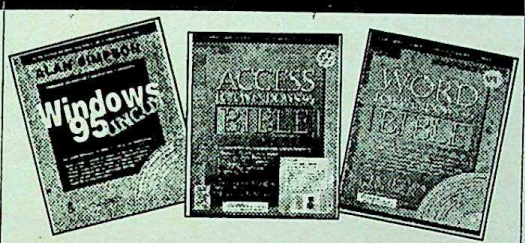
**ndations of Visual Basic 4
gramming**
Berger

ook is the ultimate source to discover the
ents for all of your future programming in the
ense of Visual Basic. It uses task approach to
ery facet of Visual Basic.
Price: Rs. 325 (with disk) 450 (with CD-ROM)

**ndations of Visual C++
gramming for Windows 95**
Ho

ok addresses real world programming for all
e Visual C++ developments. Shows how to
ver every facet of Visual C++ for Windows 95.
Price: Rs. 325 (with Disk)

BIBLES



COMPREHENSIVE TUTORIAL REFERENCES

Bibles affords readers unparalleled coverage of every computing task from *start-up to shut-down* – and then takes the reader one step further with expert advice on mastering advanced features.

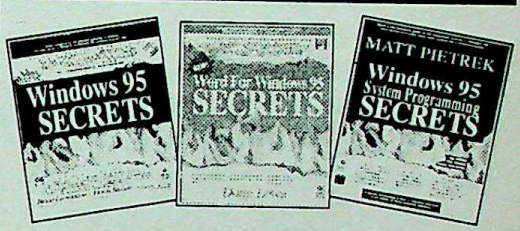
- **Windows 95 Uncut**
  By Alan Simpson
  This book reveals everything about Windows 95 from setup to shutdown. The book serves as comprehensive tutorial/reference for everyone who wants ta use Windows 95.
  800 Pages • Price: Rs. 325, 375 (with 2 disks) 450 (with CD)

- **Excel for Windows 95 Bible**
  by John Walkenbach
  This book is your ultimate tutorial/reference to master Excel features and commands.
  1000 Pages • Price: Rs. 325, 395 (with disk) 450 (with CD)

- **Access for Windows 95 Bible**
  by Cary Prague and Micahel Irwin
  This book is your comprehensive guide to Access that covers everything from setup to shutdown and includes detailed description of Access Basic Programming.
  1150 Pages • Price: Rs. 425 (with Disk)

- **Word for Windows 95 Bible**
  by Brent Heslop and David Angell
  This hands on tutorial/reference provides everything you need to master Word for Windows 95.
  1000 Pages • Price: Rs. 325, 375 (with disk) 450 (with CD)

SECRETS



INVALUABLE TRICKS & TRICKS FOR SOFTWARE DEVELOPERS

Secrets series take the reader on a back stage tour of each books topic and reveal their time-saving tricks and power user secrets. Readers learn from undocumented and little known features, tips and techniques.

- **Windows 95 Secrets**
  By Brian Livingston and Davis Straub
  This book provides developers, computer enthusiasts, MIS and IT Gurus with productivity enhancing tips and undocumented and little known facts facts which Microsoft doesn't — and won't — document.
  800 Pages • Price: Rs. 295 (only book), 450 (with CD-ROM)

- **Word for Windows 95 Secrets**
  by Doug Lowe
  This expert guide provides little known and undocumented features to turn you into an efficient and productive Words for Windows Guru.
  800 Pages • Price: Rs. 325, 375 (with disk), 450 (with CD)

- **Windows 95 Systems Programming Secrets**
  by Matt Pietrek
  This book digs into the internal details of Windows 95 and explains the relationship between Windows 95, Windows NT and WIN 32 to help you build stronger programs.
  800 Pages • Price: Rs. 395 (with disk)

Published in collaboration with **IDG Books, Inc. USA**

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Ph: 3268292-93 • Fax: 91-3280567
Branches: • **22/2 Mission Road, (Shama Rao's Compound) Bangalore-560027** Ph:2234025 Fax: 2240209
• **23-25 Zaoba Wadi, (Opp. VIP Showroom), Thakurdwar, Bombay-400002** • Ph: 2010941 Fax: 2053387
• **Khemka House, (Opp. Women's Hospital), Ashok Rajpath, Patna-800004** Ph: 653644

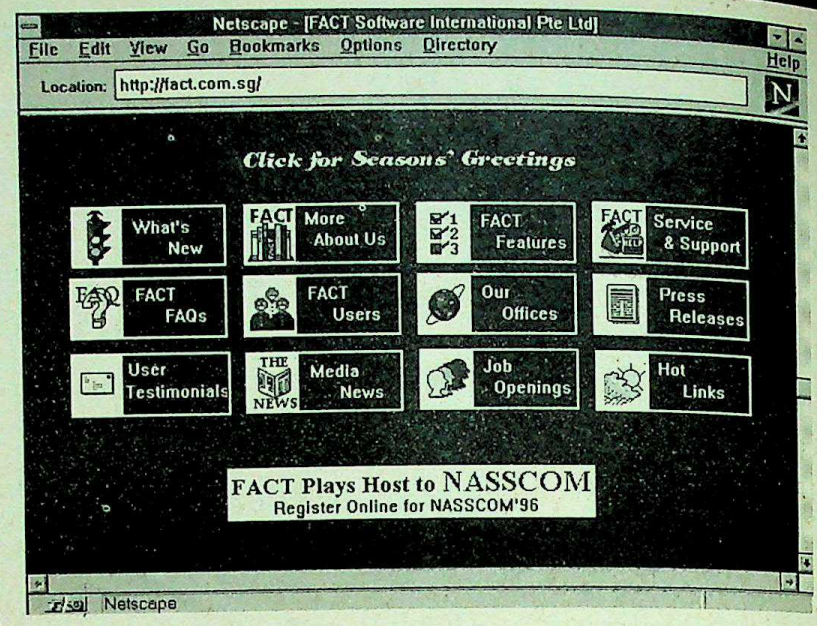
013/PCQ/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

GETTING MORE INTERNET SERVICES...

There are several "freenet" services available on the Internet that will give you shell accounts that you can use much more intelligently than VSNL's toys. One of them is ARBORNET.ORG. Use Telnet to get there, and follow the instructions. Once you have created yourself an account, you will be able to do much more than with VSNL's services.



Using a services such as Arbornet has several advantages, but one really nice one is that you can use it as a permanent mail address. All you have to do is to create a file named ".forward" in the home directory, that contains a single line of text—your forwarding e-mail address.

For example, supposing your current "real" e-mail address is XYZ@GIASDL01.VSNL.NET-.IN, you put this single line of text into that file (a simple "echo xyz@giasdl01.vsnl.net.in>.-forward" is enough to do this). Now, any mail received at Arbornet will be forwarded to your "real" e-mail address. If you change your Internet Service Provider (ISP) tomorrow, all you have to do is to change the contents of the .forward file, and mail will begin going to your new address.

Now, all you have to do is to publicise your email address with reference to Arbornet, and need never need to worry again about losing your mail. If at any time you lose access to your primary Internet account, you simply use another account to Telnet to Arbornet—all your mail messages are also stored as copies over there!

Another similar service is pobox.com. POB-OX is just a mail-forwarding service, and is free for a limited time (after that, you have to pay a ridiculously small amount). It also has a few other great features, including domain registration (they can register a domain name such as MYCOMPANY.COM for you), so that all mail addressed to "user@mycompany.-com" is automatically forwarded to an e-mail address of your choice! Very professional, and very cheap! Our editor, PKR, has been using this service for some time and is all smiles.

Use your web browser and connect to pobox.com to check out more details.

An alternate Indian Internet provider—ERnet

Recently, the Indian Government decided that VSNL w... to be the on... provider in In...

This throw... interesting p... and one ... immediately ... when ERnet, ... "real" presence ... Internet, anno... it was no longe... restrict th... Educational ins... only.

ERnet ha... around since ... offers much ... effective servic... clients. With re... on commercial services lifted, ERnet ... offers a much wider range of effective ... oriented services, including web ... UUCP-based mail accounts (consid... the primary business requirement ... comes to the Internet) and more. ... offer VSAT based services to those ... that are out of reach of regular ... networks.

ERnet is not cheap, but if you are a ... house serious about getting on... them out, Having been around for ... they have much more experience in ... are doing (in fact, even VSNL is heav... dent on ERnet for some of their ... activities!)

Send a message to info@doe.er... more details about ERnet. The ... automated message service that re... with an introductory message giving ... useful information about ERnet ... services, as well as pointers tow... sources of information. You can al... out their web pages at http://... doe.ernet.in.

The most common way these days to make people aware of your existence is through World Wide Web home pages

LOGOUT

OK, that's it for this time. A word ... to all the readers who send me e-m... me towards interesting web sites, ... tips and tricks they have come a... them coming.

Many of you have written ask... they can get more tips and tricks ... is, of course, via the PCQ BBS ... 6221734) and my own CiX BBS ... 3341137)—that's where all the ... travelers hang out sharing their ... it a try.

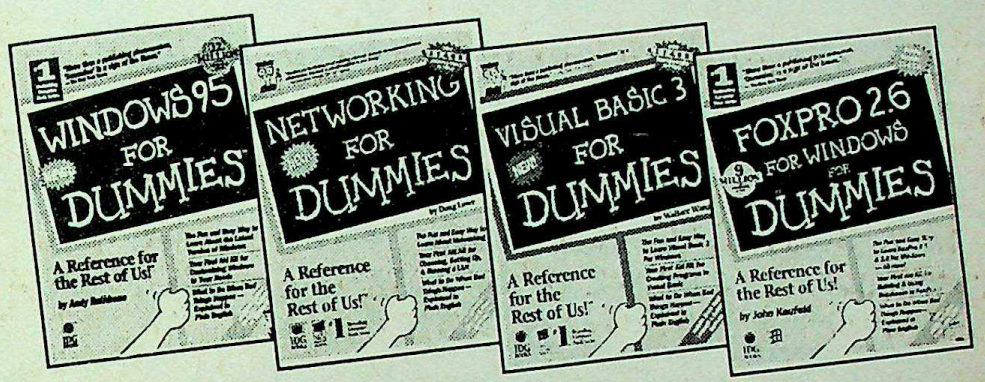
Cheerio!

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

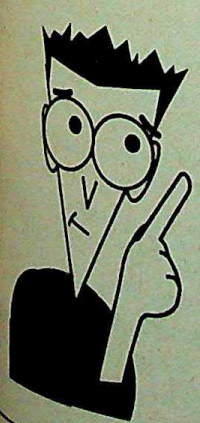
Digitized by Arya Samaj Foundation Chennai and eGangotri

100 WEEKS 100 TITLES 250 THOUSAND COPIES

Today every other computer professional — whether a beginner at TATAS or a seasoned engineer with SIEMENS — is seeking DUMMIES' help in solving his computer problems. With an ever growing popularity it's definitely a new role for DUMMIES in taking INDIA to the 21st century.. A fact that testifies to its wide appeal, reader-friendly format and presentation.



India Swears by Dummies Today



Operating System

- DOS 6.2/6.22 for Dummies 110.00
- Windows 3.1/3.11 for Dummies 135.00
- UNIX for Dummies 110.00
- OS/2 Warp for Dummies 175.00
- Advanced Unix for Dummies 150.00

Programming Series

- Visual Basic 3 Programming for Dummies ... 135.00
- Borland C++ Programming for Dummies 150.00
- OOP's Using C++ for Dummies 135.00
- 'C' for Dummies 150.00
- Power Builder 4 Programming for Dummies .. 175.00
- Visual C++ 2 Programming for Dummies 150.00
- Access Programming for Dummies 150.00
- dBASE 5 for Windows Prog. for Dummies 135.00

Desktop Publishing/Graphics/CAD

- CorelDraw for Dummies 110.00
- PageMaker 5 for Windows for Dummies 135.00
- PowerPoint 4 for Windows for Dummies 150.00
- AutoCAD for Dummies 135.00
- Desktop Publishing & Design for Dummies 135.00

Spreadsheets

- 1-2-3 for Dummies 95.00
- Excel 5 for Dummies 135.00
- 1-2-3 for Windows 5 for Dummies 135.00
- Complete 1-2-3 for DOS (Rel. 4) for Dummies 135.00

Databases

- FoxPro 2.6 for Windows for Dummies 135.00
- dBASE 5 for DOS for Dummies 135.00
- dBASE 5 for Windows for Dummies 135.00

Word Processing

- WordPerfect 6 for Dummies 135.00
- Word 6 for Windows for Dummies 135.00
- AmiPro for Dummies 135.00
- WordPerfect 6 for Windows for Dummies 135.00

Windows 95 titles

- Windows 95 for Dummies 150.00
- Windows 95 Programming for Dummies 150.00
- Windows 95 Uncut (with CD-ROM) 450.00
- Windows 95 Uncut (without CD-ROM) 295.00
- Windows 95 Handbook 195.00
- Windows 95 Secrets (with CD-ROM) 450.00
- Windows 95 Secrets (without CD-ROM) 295.00
- Excel for Windows 95 Bible 325.00
- Word for Windows 95 Bible 325.00
- Foundations of Visual C++ Prog. (with disk) .. 325.00
- Foundations of Delphi Prog. (with disk) 345.00
- Foundations of Visual Basic Prog. (with disk) 325.00
- Word for Windows 95 for Dummies 150.00
- Excel for Windows 95 for Dummies 150.00

Internet/Communications/Networking

- Netware for Dummies (2nd Edn.) 135.00
- Networking for Dummies 110.00
- The Internet for Dummies (2nd Edn.) 150.00
- Modems for Dummies (2nd Edn.) 150.00
- TCP / IP for Dummies 175.00
- HTML for Dummies (with disk) 225.00
- Client/Server Computing for Dummies 150.00

General

- Sex for Dummies 99.00
- Selling for Dummies 110.00
- Macs for Dummies 95.00
- PC's for Dummies 88.00
- Upgrading & Fixing PCs for Dummies (2nd Ed.) 135.00
- Illustrated Computer Dictionary for Dummies .. 68.00
- Multimedia & CD ROMs for Dummies (2nd Ed.) 135.00
- MS Office 4/4.2 for Windows for Dummies 135.00
- Memory Management for Dummies 60.00
- Time Management for Dummies 135.00
- Smart Suite 3 for Dummies 135.00
- cc:Mail for Windows for Dummies 60.00

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Ph: 3268292-93 • Fax: 91-3280567

Branches: • **22/2 Mission Road, Bangalore-27** Ph:2234025 Fax: 2240209
• **23-25 Zaoba Wadi, (Opp. VIP Showroom), Thakurdwar, Bombay-2** • Ph: 2010941 Fax: 2053387
• **Khemka House, Ashok Rajpath, Patna-4** Ph: 653644

013/PCQST/SK

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Becoming More Competitive

In the late 1970s, the then IAF Chief of Staff visited the USA. During his visit, he was taken to the North American Air Defence Command (NORAD)Center under Cheyenne mountain. This center is nuclear-bomb-proof and served as the nerve center of a US response in the event of a nuclear war with the former USSR. The press had always projected it as a top secret establishment.

Surprised at being allowed into the command center, our Chief questioned his hosts as to why they didn't regard the visit of an outside military delegation as a possible compromise of security. They reportedly responded by saying—"Our security is our strength". The message was straightforward. A nation need hide only its weaknesses, not its strengths.

Some of that attitude is evident in software development, where the US rules the world. They have a lead over the rest of the world, which will remain insurmountable for decades. They maintain this lead not by withholding what they have developed, but by setting a scorching pace. For example, with every compiler released by Borland, most of the source code is also provided.

You can buy source code for practically every US-developed software. A lot of quality software is also in the public domain. An Indian programmer browsing the Net is unlikely to be frustrated by the lack of useful source code in the area of his interest. However, he could be overwhelmed by too much of it. Downloading data takes minutes. Absorbing it usually takes years.

There are some lessons here for Indian programmers and organizations. We must adopt the same kind of openness characteristic of the Net. On many Net forums programmers from reputed software companies compete with one another to solve intricate problems. The first with a solution makes a mark both for himself and his organization. In our country, software companies have no presence on any of the leading BBSes. To me, this indicates a lack of competitiveness on the part of programmers and a lack of confidence in their coding abilities.

It takes effort and confidence to "expose" your abilities. But expose you must—for that is the best way of improving them.Here are some simple rules, derived from logic and experience, to help those of you who wish to open up more, but are hesitant to do so.

We need to be more open with code and applications to become competitive

VK Thakur is a Delhi-based database and information consultant and runs his company Leading Edge Colutions. You can reach him via the COL forum of PCQ Online (11-6221734)

(1) Nobody writes perfect code

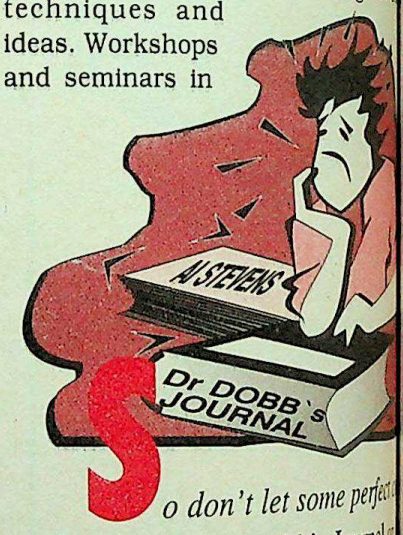
(2) Brilliant code usually emerges successive refinements rather than cent intellectual abilities

(3) You can't write good code unl have written bad code

(4) Inexperienced programmers wr bad code than good code. Experienced mmers write more good code than ba Both, however, write their quota of ba

So don't let some perfect code that in *Dr Dobb's Journal* or a book by Al S make you underrate your abilities. Y bet that that code was a lot less brilliant it was debugged, the experience of the notwithstanding.

Workshops and seminars also play in fostering an open exchange of techniques and ideas. Workshops and seminars in our country are vendor-sponsored usually part of a marketing ploy. They products, not technology and techni the other hand, Computer Society workshops are pitched at strate levels.They are more relevant to acad than developers who spend most of coding, compiling and cursing.



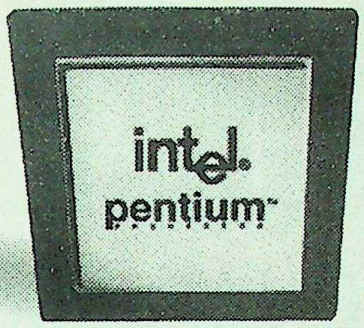
So don't let some perfect that you see in Dr Dobb's Journal *book by Al Stevens make you under your abilities*

While there can be little doubt that can become major players in glob is unlikely that we will. The reasons are We may have the intellectual power o the Americans but we certainly don't same competitive spirit and financ By opening up a lot more we wouldn scale but we would bridge some of which currently looks disheartening

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Begin With Twin intel® Advantage



and

motherboard

Experience the amazing power of **pentium™** processor
And the high performance of motherboard made by **intel®**

Now available from Priya at a special package price !

FEATURES

- WINDOWS 95 - ready
- High performance PCI local bus
- Flash BIOS for future up-gradability
- Level-5 Over Drive Ready
- Plug and Play
- PCI enhanced IDE on board
- On board 2 serial, 1 parallel port and FDD controller.
- EDO DRAM Support.

THE PRIYA GROUP

PRIYA INTERNATIONAL LTD., THE AUTHORISED DISTRIBUTOR FOR INTEL, CONTINUOUSLY BRINGS YOU HIGH END, HI-TECH PRODUCTS AT RIGHT PRICES. ADD TO THAT THE BENEFIT OF PRIYA'S SERVICE, PRODUCT WARRANTY, TECHNICAL SUPPORT AND THE ASSURANCE OF GENUINE QUALITY. AND YOU HAVE BEST OF BOTH THE WORLDS.

Now stocks available from our local outlets also.

Priya GROUP

TRUE VALUE FOR YOUR MONEY

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 266 3783, 285 4037

Branch Offices: Bangalore: Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422378, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

The Logos and Trade Marks shown above are of their respective owners.

Vandit Designs PIL/06/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Lighter Side Of Computing

Some bytes of humor

Computer science is supposed to be a high tech field, filled with intense, brainy people working at the very edge of their capabilities. But it does have a lighter side. As the following anecdotes reveal. The first concerns a NASA lab using IBM mainframes. One of which was used for numerical analysis. Most of the work involved manipulating matrices. The programming staff had developed several routines in FORTRAN for this purpose. The problem was that these matrix routines were too slow. Management decided to devote resources to speeding up these routines and a team of six programmers was rounded up to do the job.

The programmers dug in and work started in full swing. Much time was spent on analyzing the behavior of the current routines to find out ways to speed them up. The analysis yielded rich results and the programmers set themselves a target of a 50- to-75% speed up. Coding commenced and in a short while the team produced a new set of routines.

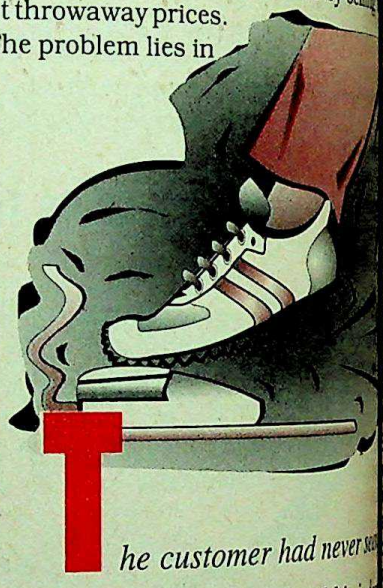
A strange thing happened when management benchmarked the main system. There was no performance increase. The programming team was vexed and took another look at the code. It was perfect. The system should have shown a minimum performance increase of 50%. Matters were at a standstill till a junior member of the team stumbled across a simple fact. It seemed that the team had forgotten to link the new routines to the main system. The main system was still calling the old routines.

Our next story concerns a man who bought a brand new PC-XT from a retail store in New York. He was back at the store in two weeks, complaining of perpetual corruption of his 360kB floppies. The technical staff at the store went over his machine and found nothing wrong. So they told this irate customer to call the support engineer the next time the problem occurred.

The customer rang up the next morning. The store dispatched their best technical brain posthaste. Sure enough the customer was sitting there with two brand new corrupted floppies. Once again the engineer could find nothing wrong with the machine. The machine would have joined the Bermuda Triangle as an unsolved mystery had it not been for something the engineer noticed when he was about to leave. The customer had an unusual paperweight—a large magnet. Needless to say the customer often placed his paper over his floppy disks.

Customer support people often listen to weird complaints but a engineer got the shock of her life customer reported that the foot pedal computer was not working. A careful revealed that the customer had never mouse before and had used his judgment to what the device could be. Needless this incident occurred before Windows become a standard.

A friend of mine who runs a bookstore Delhi. My friend often has salesmen with stocks of remaindered books. Remaindering is a process in which publishers get the last few copies of a book by selling at throwaway prices. The problem lies in determining what a throwaway price friend uses his trusty old AT to solve knotty problem.



The customer had never seen a mouse before and had used his judgment as to what the device could be

What he does is exceedingly simple simply feeds in all the details of the book offer into an impressive looking data form. The computer pauses for a few seconds and then flashes out a message like—"Your too high by a factor of 20%". Nothing wrong with that—except for the simple fact that program simply throws away all the input and will always respond in this way—with a random percentage factor between ten and 50%.

Let me sum up by repeating a famous quotation—No system is foolproof. For ingenious.

Gautama Ahuja is a contributing editor of PC Quest. He also owns and manages AHC Infotek, a Delhi-based turnkey software development company. You can reach him at sga%dartnet@uunet.uu.net or via the COL forum of PCQ Online

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Electronics Ltd. was launched in 1986 and in a span of years is the largest manufacturer of computer peripherals dia. TVS Electronics has been promoted by the gious TVS group, the twelfth largest business house in

Electronics has collaborations with the world's leading facturers such as Citizen, Japan, Oki, Japan and Victron Netherlands.

Electronics offers a wide variety of printers to match printing need.

Q series printers have a long head life and come with a e two year warranty. In addition to this they are virtually less, offer a colour printing feature, and many other -of-the-art features.
models available in this series are Q10, Q20, Q25 and

HD series represents the series of "Intelligent printers", s to their self-adjusting printhead and smart paper ling technology.
printers are designed to tackle high speed, high quality on a flexible range of paper sizes and thicknesses ing multi-part stationery. All this without sacrificing on quality.
models available in this series are HD 5000, HD 5650, HD HD 6590 and HD 6595.

MSP series printers, sleek and elegant in appearance, known for ruggedness and reliability. They form India's selling range of dot matrix printers.
models available in this series are MSP 145 Plus, MSP MSP 240 and MSP 255.

Novo series printers, are designed to meet all your day printing requirements and more.
models available in this series are Novo 130 and Novo

Electronics is designed to providing the highest level of rt to its customers. To deliver complete customer faction, TVS Electronics has extended the reach of its r sales service facilities, both through its own regional s and the network of TVS Electronics Authorised Service es all over the country.

no wonder then, that TVS Electronics printers were ected as the most popular of all dot matrix printers in a t evaluation survey conducted recently.

rand Evaluation for Dot Matrix Printers

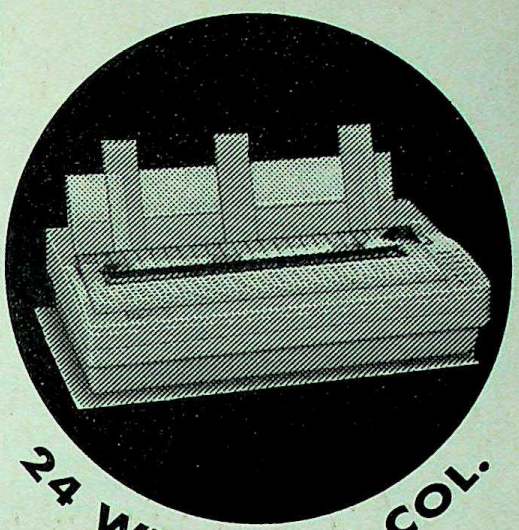
Total Base: 159963 units sold

nk	Brand Name	S.O.M.
)	TVSE (Calligra/MSP/Novo/HD)	38.35%
)	Wipro Epson (LX/EX/FX/LQ/DFX)	37.49%
)	L&T (Samsung-SP)	11.27%
)	Panasonic	8.18%
)	Godrej	2.27%
	TOTAL	97.55%

e: Computer World - December, 95.

Electronics has left an indelible impression, not just on the they print on, but also on the user community at large.

NEW Q35



24 WIRE, 136 COL.

High speed printing
– 336 cps @ 12 cpi.

Double print head life
– 200 million characters.

Diamond head technology
– Quiet operation 46 db (A) noise level.

User friendly control panel
– Vue print TM menu system.

Wide variety of fonts
– 6 LQ fonts & 2 scalable fonts

High copy capability
– 1+4 copies, for the most demanding applications.

For further information, contact:
TVS ELECTRONICS LTD., 10-B, I Phase,
P. O. No. 5805, Peenya, Bangalore 560 058.
Tel.: 839 5000. Fax: 839 6334.

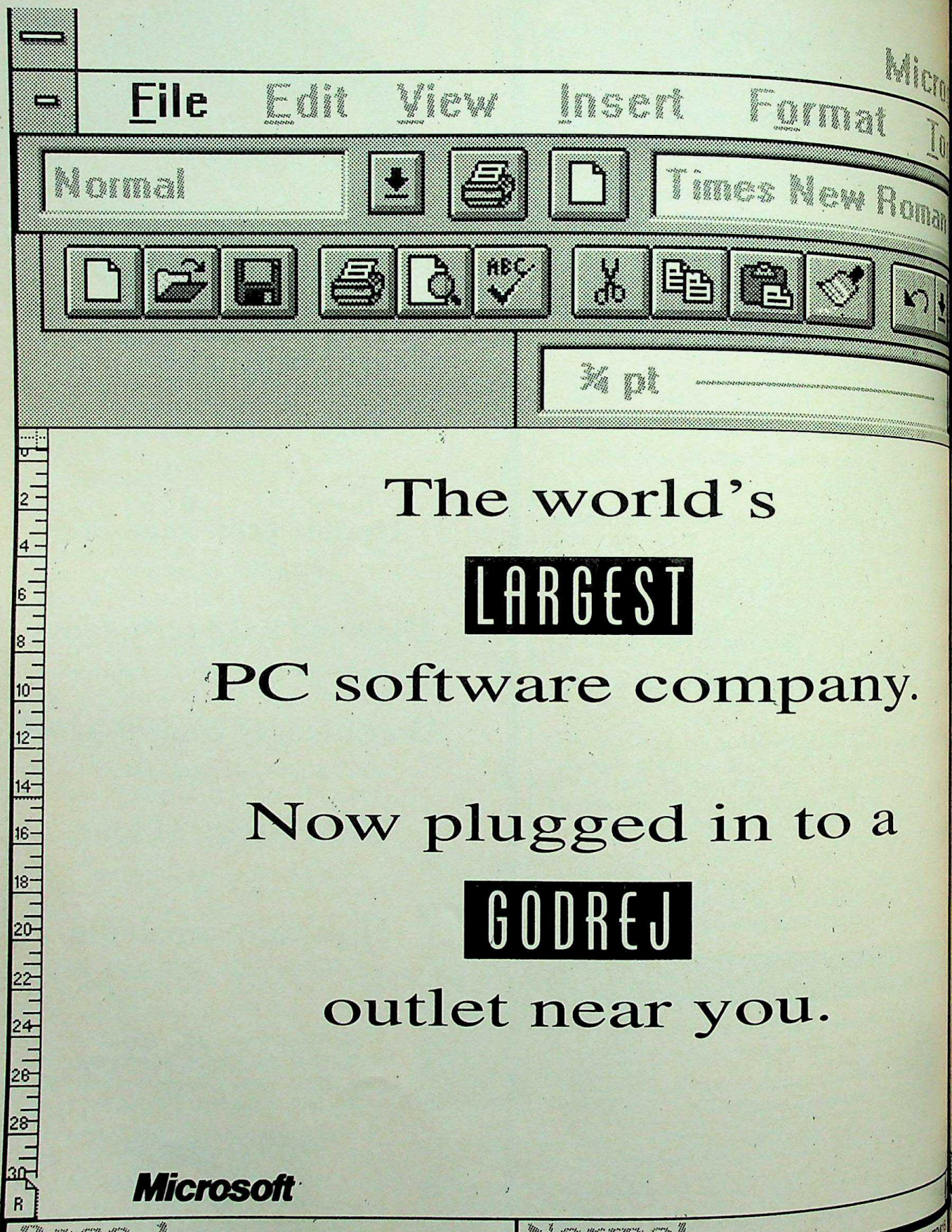
TVS
ELECTRONICS
The No.1 in printers

The Q Series consists of Q10, Q20, Q25, Q35. Ambience/TVSE/38

For further information, call TVS Electronics, Ahmedabad: 7411227/7478619. Bangalore: 2261723/2261713. Bombay: 6247350/6247364. Calcutta: 262137/268355. Delhi: 6212576/6212577/6212578. Madras: 6412422/6412650. Pune: 332856/369346. Secunderabad: 847244.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

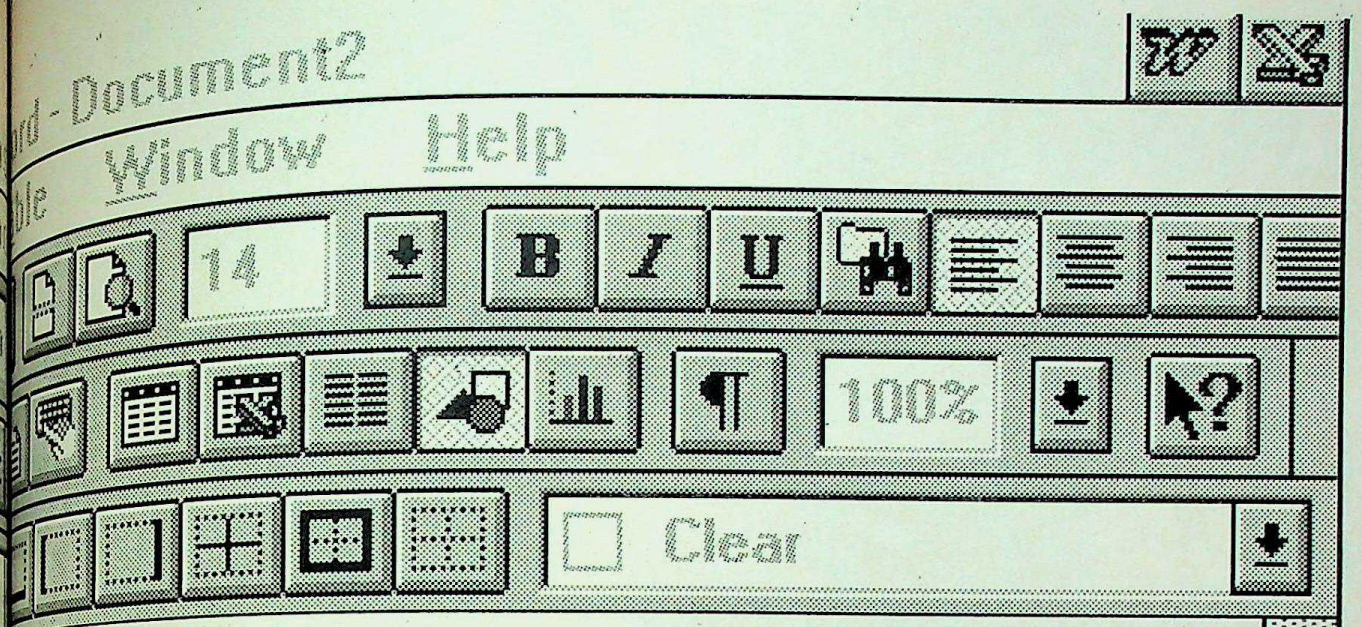
Digitized by Arya Samaj Foundation Chennai and eGangotri



Godrej Trading & Services Co. Ltd. Plant 19A, 2nd floor, Pirojshanagar, Vikhroli (W), Bombay 400 079. Tel: 5171166/77. Fax: 5170[illegible]
BRANCH: Bombay. Tel: 2048371. Fax: 2852079 • **Pune.** Tel: 624588/628971. Fax: 628969 • **Ahmedabad.** Tel: 5831545-9. Fax: 583033[illegible]
Indore. Tel: 539075. Fax: 533735 • **Bhopal.** Tel: 551863. Fax: 550029 • **Jabalpur.** Tel: 316092. Fax: 311776 • **Surat.** Tel: 870125 • **Baroda**
Tel: 339369. Fax: 451066 • **New Delhi.** 6845002/7, 6830690. Fax: 6841482 • **Lucknow.** 226645/228963/ 221671. Fax: 2226[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Microsoft, the world's largest PC software company has just tied up with Godrej. So the world of Microsoft can be accessed here and now. From India's largest and most comprehensive dealer network. Ensuring ready availability of Microsoft products, around the country and at most competitive prices. Anything from DOS, Windows, Windows 95, Office Suite, Word, Excel, Powerpoint, Windows NT, Mouse to a vast range of multimedia and entertainment products. Microsoft from Godrej. It's time you got connected.

If you are a Reseller interested in dealing with Microsoft products, send the coupon below to: *Suresh Iyer, Business Mgr. Microsoft, Godrej Trading & Services Ltd., Plant 19A, 2nd floor, Vikhroli (W), Bombay 400 079. Tel: (022) 517 1166/77. Fax: (022) 517 0415.*

Yes! I'm interested in Microsoft products.

Name: _____

Address: _____

_____

Tel: _____

Godrej OFFICE AUTOMATION®

Fire-power for winners

Chandigarh. Tel: 773238/705945. Fax: 703047 • **Jaipur.** Tel: 515182/514650. Fax: 515496 • **Madras.** Tel: 655666/6257331. Fax: 6257155 **Bangalore.** Tel: 2276487/382/465/538/297. Fax: 2219312 • **Hyderabad.** Tel: 202895/201876. Fax: 203587 • **Vishakapatanam.** Tel: 546510/ Fax: 545878 • **Thiruvanthapuram.** Tel: 460455/460542. Fax: 75935 • **Kochi.** Tel: 315683. Fax: 371838 • **Calcutta.** Tel: 370895-99/ 5941111/06. Fax: 3378271 • **Bhubaneshwar.** Tel: 405082/404289. Fax: 400599 • **Guwahati.** Tel: 540787/542851. Fax: 543466.

Mudra:GTS:4383

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NASSCOM '96

Highlights of this year's annual software event

Mumbai wore a festive look from February 7-10 this year because of NASSCOM '96. NASSCOM was spread over 19,000 sq ft, with 700 stalls from 195 companies.

The event was multi-locational, since Mumbai can't boast of a large exhibition venue unlike Delhi. There were three venues—NSCI, where the NASSCOM '96 exhibition was held; Nehru Center, which hosted Cybercity and the Internet conference and the Oberoi, where the Industry Leadership Summit and the US-India IT Conference were held.

The Industry Leadership Summit was officially inaugurated with a talk by Prof CK Prahalad, the management expert. Shammi Kapoor, Mumbai's newest Internet enthusiast, inaugurated the Internet Conference and Cybercity, whereas Mr BK Syngal, Chairman and MD, Videsh Sanchar Nigam Ltd (VSNL), inaugurated the NASSCOM exhibition.

A gala dinner, on Elephanta Island off the Mumbai coast, concluded with a fashion show organized in conjunction with the National Institute of Fashion Technology (NIFT).

The NASSCOM '96 and EC Awards

Onward Novell received an award for the best pav... Silverline got an award for the best stall and VSNL also ... an award for its stall in the Cybercity section. T... Consultancy Services (TCS) got an award as the m... popular exhibitor, Silicon Graphics as the most enthusi... exhibitor and SMILE got an award for the most innov... display. Rediff on the Net and Gebbs India received a spe... recognition award each.

Cybercity

Cybercity and the Cyber-seminars were very popular w... visitors to NASSCOM '96. The Cybercity was inaugurate... Mr Shammi Kapoor, who clicked on the NASSCOM Web... as the song "Yahoo" from his hit film, "Junglee", was pl... over the speakers. He was given the title of Mayor of C... city.

This three-day event was managed by Mr Vijay Mukhi ... Java programmer, while Mr K Pandyan answered ques... on the Net. Another Cybercity highlight was the V... exhibition. VSNL had, for the first time, set up a large dis... at Cybercity. To satisfy the curiosity of laypeople rega... the Internet, VSNL had supplied a 256kB line and a 12... line along with two 64kB lines ... netsurfing.

Silicon Graphics ... announced a Rs.450,000 ... workstation as a prize for the ... draw. SGI also conducted a ... classroom where students could ... HTML to create Web sites and ... thor home pages.

Rediff on the Net was give... special recognition award ... NASSCOM and Express Comp... ers. Rediff is the first interac... online service with a site in ... which is mirrored in the US.

Dr Bob Glass, SunSoft's dir... of Strategic Technology, amaze... audience with the demonstration ... Starfire, Sun's vision of workg... in the future. The Starfire worksp...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

a large desk
e the user's
and voice acti-
the system.
Starfire project
s that multiple
conferences,
pickups from
es and plan-
could be
ed out simulta-
ly in real time.
e on the move
carry out the
activities
SunPad
to the work-
Starfire's
re the simple
egant integra-
of work and
it allows for
compression,
e administered
y and is scalable over all platforms without a
cability problem. All the equipment and technology
at the demonstration was in a beta stage.

cts on Show

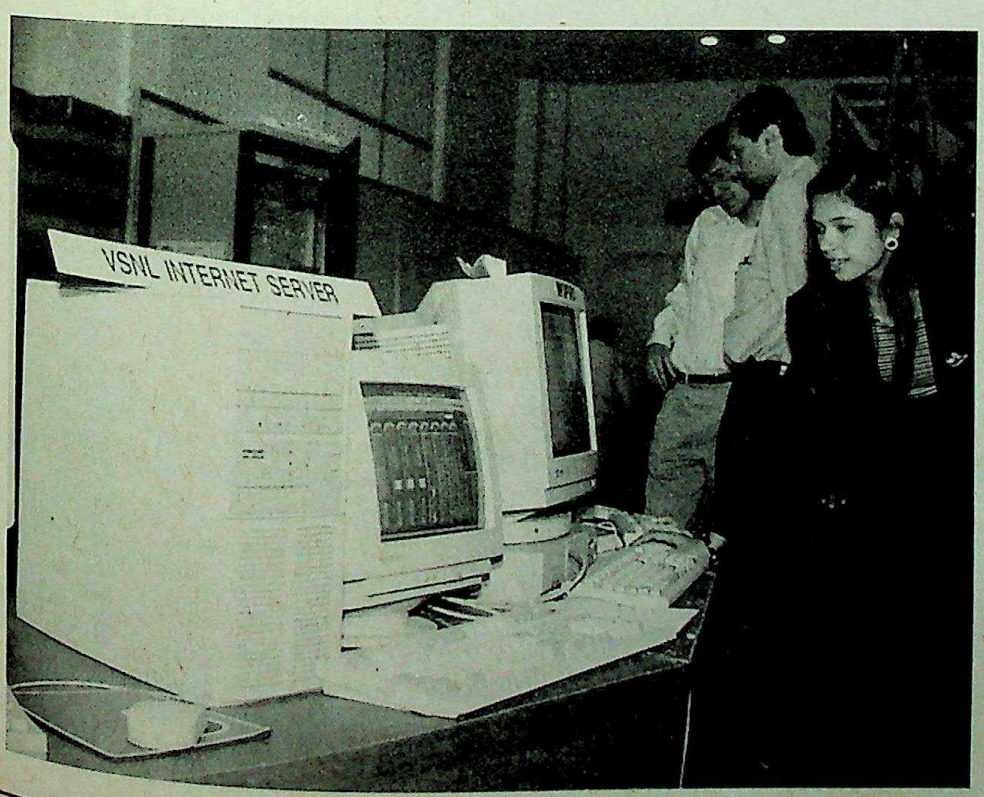
e Centre for Development of Advanced Computing
) displayed the following products: the Apex Lan-
processor (APL), the ISFCO Script Manager (ISM) and
EAP Language Word Processor. ALP is a Wordstar-
ible multilingual word processor, LEAP is an Indian
ge word processor while ISM is an Indian script
face for
sional work in
rmation and
bundled with
l effects.

tructural
ics Research
USA dis-
the I-DEAS
r Series for
ows NT. I-
is a leader in
current engi-
g process. I-
is available on
e hardware
rms and is
also available
e Intel Pentiun
s Windows
is distributed
ard Techno-
Ltd.(I)
puter Asso-

ciates USA displayed the following products: CA-OpenIngres, CA-OpenRoad and CA-Accpac/2000. CA-OpenIngres is an RDBMS for mission-critical client-server computing. CA-OpenRoad is an enterprise-wide, multiplatform object oriented application development tool. All three are distributed by Mastek Ltd.

Software AG , a respected developer of data warehousing products, displayed a range of data warehousing products such as ADABAS D, a high performance platform independent database engine; NATURAL, a database independent application engineering tool; ENTIRE, a versatile middleware; ESPERANT, a universal query language and DSS Agent, a powerful decision support system. These products are distributed by C-DAC and RS Software of Calcutta.

Quad Inc displayed MFG/PRO, a manufacture resource planning software for repetitive as well as batch processing. It integrates with financial apps and automates the supply chain. MFG/PRO is distributed by Mafatlal Consultancy Services (I) Ltd.

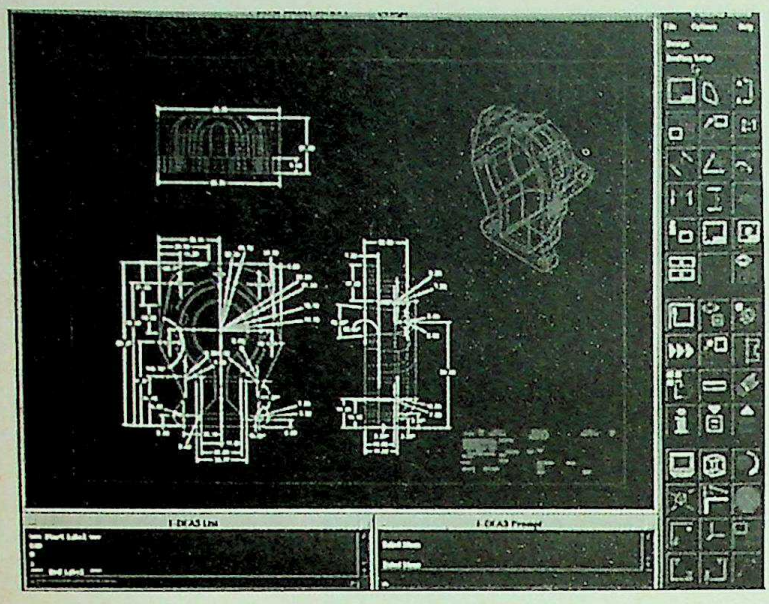


Mastek Ltd displayed CMAMIS, an enterprise-wide resource planning client-server software product combined with object oriented technology.

Magic Software Enterprises, Israel displayed Magic, a code-free application development and deployment system, while Era Software Systems Pvt Ltd displayed Cobol Analyst 2000 and Market-Map. Cobol Analyst creates an advanced PC/LAN based maintenance environment helping you to inventory your

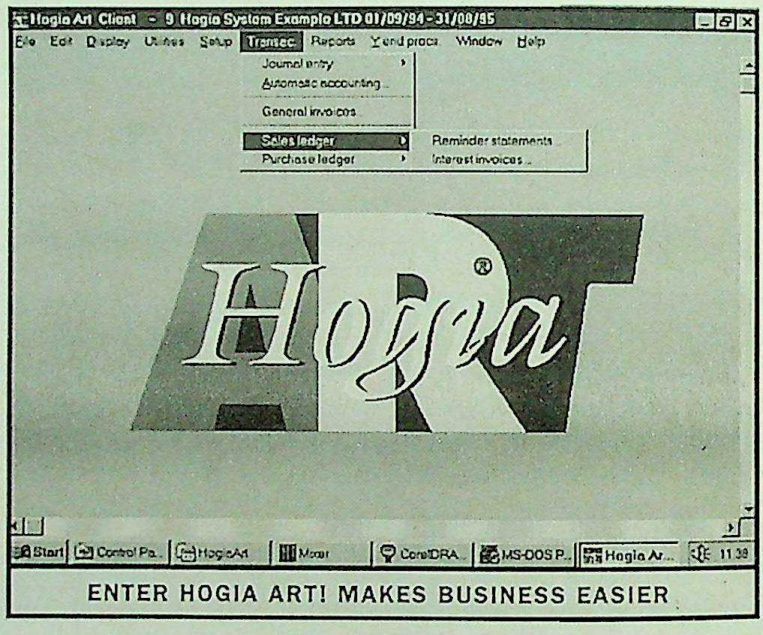
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



legacy system, relief from tedious maintenance activities, Migration of mainframe COBOL systems to Client/Server and performance of system wide impact analysis. Marketmap is a product that overlays one piece of information on top of another. It starts with a digitised image of your market and add in separate layers physical features like districts, talukas, railway lines and major roads. And tops off with population, income and other data from the latest census.

Creative Technology Ltd displayed Share Vision PC-3000, a desktop video conferencing system consisting of a ShareVision PC audio card, a VideoBlaster RT 300 card, a high-speed fax/ data modem, an audio head set, 1/3" CCD color video camera and cables. Share Vision PC-3000 is distributed by WorldWide Technologies Ltd. (2)



ENTER HOGIA ART! MAKES BUSINESS EASIER

Intergraph Computer Systems displayed the Workstation and Solid Edge. The TDZ Workstation is ently the world's fastest Pentium-Pro based worksta Solid Edge is a versatile design and modelling tool products are distributed by Rolta India Ltd.

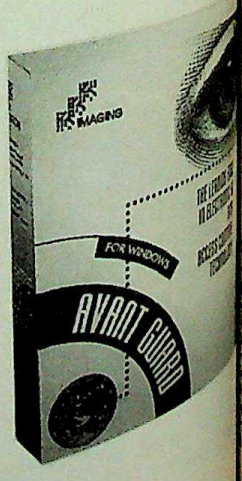
IT Secure is the distributor for Helix Software's Hurr a RAM-doubling software.

Rediff Communication Pvt Ltd's Rediff on the Net first time an advertising agency has created a site on the Rediff on the Net is an India-based site which pro information on business, investments, film entertainment, current events and sports. It even childrens' section.

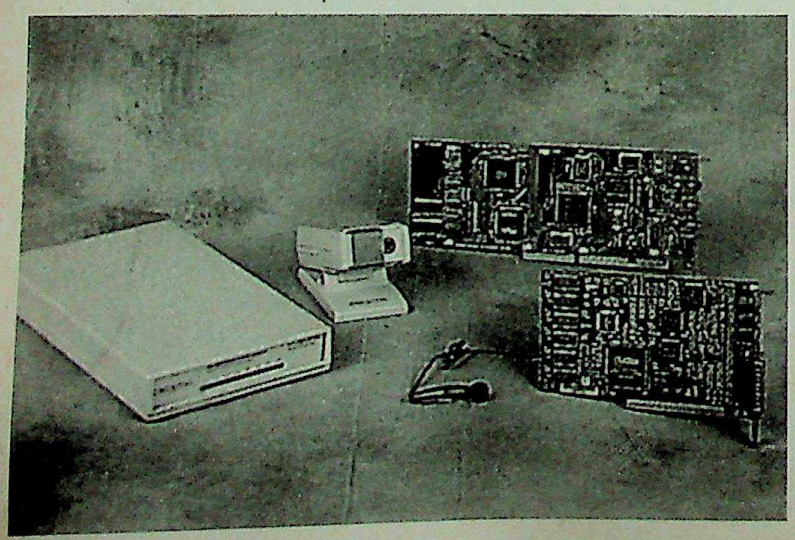
Kale Consultants Pvt Ltd displayed and InCare. APEX (Automatic Proration Exp is a passenger accounting revenue solution w was developed in-house. It comprehensively identifies applicability of special prorate agreements, provisions requirements. It also performs complex routings with m fare components, side trips and class differentials. InCa an RDBMS on host management. It autom clinical services, pa administration and fina management.

Hogia System's HOGI is a Windows-ba accounting package w allows users to enter d on 9,999 companies and be adapted to the spe needs of any company wi compromising any soft updates. HOGIAART incl independent modules w can be added as and w required. ADA Softwar Services Pvt. Ltd are distributors of HOGIAART

AVNet Technology Taiwan displayed their audio visual network solution. allows a 64-user network to run multimedia interactively. The AVNET Audio-Visual Solution was distributed by Educomp Datamatics



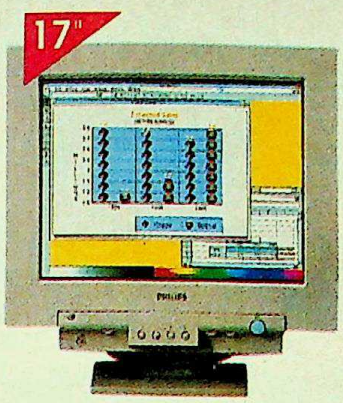
Tata Unisys Ltd displayed AvantGuard 2.0, a Windows-based ID database management and verification product which allows users to store digital photographs. This product was in use at the seminars and conferences where all the delegates and visitors had their photos on their badges. (4)



Jamsheed Gandhi

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

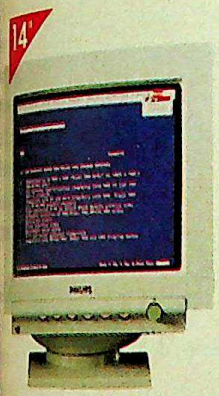
Digitized by Arya Samaj Foundation Chennai and eGangotri

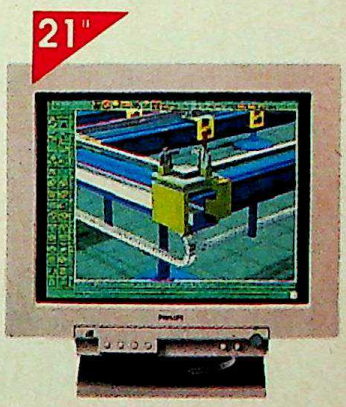


Crystal Clear Resolution.

Digitally Controlled Geometry Adjustment

Flicker-free Screen.





The latest feature has little to do with technology.

It really has to do with a name.

REDINGTON.

A distributor for some of the biggest names in Computers and Peripherals like Compaq, ERSON and HP, Redington now brings you the complete range of Philips Color Monitors. Backed by the widespread Redington distribution network, with over 100 Authorised Dealers spanning 48 cities to ensure practically off-the-shelf delivery, as well as Redington Service Centres to ensure that quality service is yours anytime. Anywhere. Just call us today. It could be the start of something very profitable.

REDINGTON
PHILIPS

Redington India Pvt. Ltd., SPL Guindy House, 95, Mount Road, Madras 600 032, Tel: 2353313-18 Fax: 2352790 • Bangalore: 46, Khamrun Plaza, 6th Block, 100 Ft. Road, Koramangala, Bangalore 560 095, Tel: 5538032-4 Fax: 5538035 • **Bombay:** 1004, Dalamal House, Jamnalal Bajaj Marg, Nariman Point, Bombay 400 021, Tel: 2832478/3470, 2826327/4461 Fax: 2873615 • **Calcutta:** No.1, Nook Apartments, II Block, 8, Gurusadey Road, Calcutta 700 019, Tel: 2405254, 2406747, 2407565, 2407447 Fax: 2408898 • **Delhi:** D808, New Friends Colony, New Delhi 110 065, Tel: 6919600, 6923224, 6923772 Fax: 6822854 • **Hyderabad:** 1-8-449/A/5, Opp Police Lines, Sardar Patel Road, Secunderabad 500 003, Tel: 819125/34 Fax: 819125

CONTRACT 12967/96-R

REDINGTON AUTHORISED DEALERS: • **Ahmedabad:** Neoteric, Tel: 6568544 Fax: 6568544 Sumisha Computers, Tel: 6568850 Fax: 6563170 • **Aurangabad:** Cherry Corporation, [illegible] International, Tel: 333973 Fax: 333973 • **Bangalore:** Compuage Electronics Pvt. Ltd., Tel: 5588241 Fax: 5596087 Karthik Business Machines Pvt. Ltd., Tel: 5584493 [illegible] Tel: 8391650 Fax: 628508 Fax: 628544 Vertex, Tel: 3359415 Fax: 3389753 • **Baroda:** Hi Tech Innovations, Tel: 336608 Fax: 336609 • **Bombay:** Dyna Hitech Power Systems [illegible] 2429669 • **Calcutta:** Supertron Electronics Pvt. Ltd., Tel: 2425716 Fax: 2425717 • **Goa:** City Computer Resources, Tel: 226796 Fax: 227334 • **Guwahati:** Modular Peripherals, [illegible] 408268 Fax: 548019 Neoteric, Tel: 3886262 Fax: 3874715 Savex Computers Ltd., Tel: 2841243 Fax: 2041656 S K International, Tel: 3715342 [illegible] Tel: 539714 • **Hyderabad:** Microcare Computers Pvt. Limited, Tel: 313652 Fax: 318934 Mohan Marketing Associates, Tel: 846863 Fax: 814172 • **Indore:** Business [illegible] 403865 Fax: 539035 • **Jamnagar:** Harshil Electronics & Systems Pvt. Ltd., Tel: 550847 Fax: 555123 • **Ludhiana:** Infotech Data Management Ltd., [illegible] 25696 Mayur Computers Pvt. Ltd., Tel: 526862 Fax: 529463 • **Madras:** ATI Incorporated, Tel: 831583 Fax: 2348772 • **Mangalore:** Phoenix Systems, Tel: 437451 • **Nagpur:** Business Algorithms, Tel: 530545 [illegible] Pvt. Ltd., Tel: 6219159 • **Nasik:** Prism Computers, Tel: 574737 Fax: 574737 • **New Delhi:** O A Compserve Pvt. Ltd., Tel: 5731534 Vidur [illegible] • **Pune:** Microline, Tel: 356533 Fax: 356846 S.K. International, Tel: 350162 • **Surat:** Innovative Computers, Tel: 474184 Fax: 474184

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NOW RUN YOUR 486 AT TRIPLE SPEED! AT INCREDIBLY LOW PRICE !!

PRESENTING THE SPECTACULAR

SPEED TRIPLING TECHNOLOGY

FROM

intel®

Give a new lease of life to your existing machines by using IntelDX4™and make your regular programmes run almost three times faster.

THE IntelDX4™ OverDrive PROCESSOR

Intel's speed tripling technology increases the internal clock speed of the processor three times over the system bus. For eg. when it is installed in a 33 MHz 486SX or DX CPU - based system, the integer unit, floating point unit and cache operate at 100 MHz while the speed of the external bus remains at 33 MHz. Thus delivering the same performance as a similarly configured IntelDX4™ CPU-based system.

THE PRIYA CONFIDENCE

Priya excels in making high quality products available at very affordable prices.
Add to that the trusted support of Priya's service and assurance of genuine quality.
And you have a winning combination.
Choose Priya. And stay ahead. Confidently.

THE AUTHORISED DISTRIBUTOR FOR intel.

Now stocks available from our local outlets also

Dealer Enquiries Solicited

Priya GROUP

MAKING HI-TECH EASILY AFFORDABLE

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 285 4037

Branch Offices: **Bangalore:** Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422378, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

**The Logos and Trade Marks shown above are of their respective owners.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

NOVELL

Novell networking solutions

The Past, Present, and Future of Network Computing.

...ary Semantics is a one-stop source for ...ware products, catering to the needs of end ...sers developers and programmers.
...rough alliances with leading software ...mpanies, Binary Semantics brings to the ...dian market, packages that are best sellers, ...o also winners of several international awards. ...Quest awards have confirmed the growing ...ularity of these packages in India. Products ...e Corel VENTURA in DTP, CorelDRAW in ...phics, Borland C++ in Development Tools, ...tro Pro in Spreadsheets and dBASE in ...abase, have won the PC Quest Annual User ...ey Awards, 1994.

...ou looking for a perfect network solution ...t's simple to install, operate and support. ...d above all, reliable chose NetWare, the only ...ced network operating system that's in its ...th generation.

...wever, ease of use, reliability and the ...stry's tightest security are not the only ...ons that make NetWare the clear choice. ...eWare is the only product that allows you to ...ect any E-mail package and network from ...r vendor. Fact is, NetWare is compatible ...h more applications, computing ...ronments and hardware than any other ...ork operating system. The end result is a ...petitive advantage.

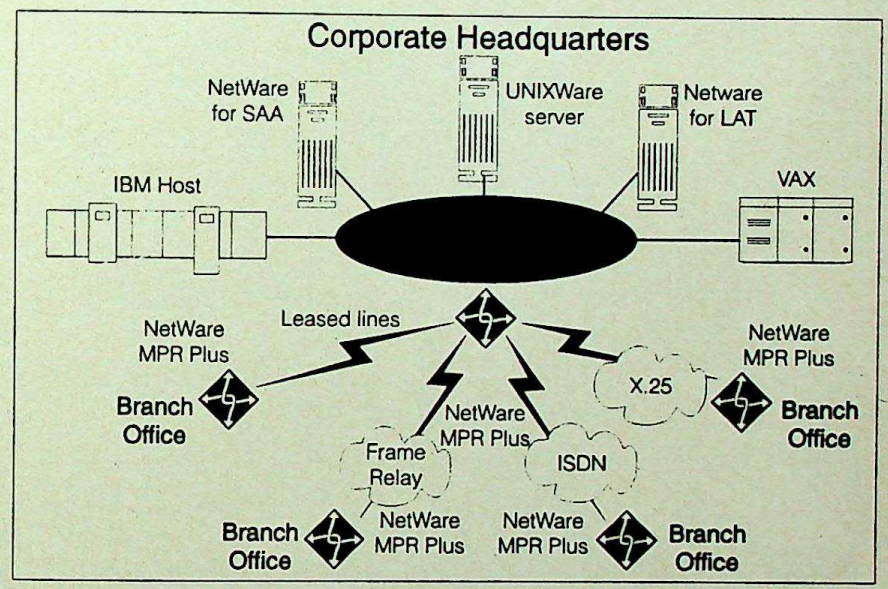
OPERATING SYSTEMS AND COMMUNICATION

Novell server operating systems provide high performance network computing solutions to a variety of business needs. Novell also provides a wide variety of communication products offering connectivity.

NetWare. Available as NetWare 4.XX for business-wide net works, NetWare 3.12 for sophisticated, enterprise-wide network computing solution in a multivendor environment, NetWare 2.2 for resource-sharing and workgroup productivity and Netware SFT III for highest level fault tolerance.

UnixWare. Integrates USL's UNIX System V Release 4.4(SVR 4.2) with client support for Novell's NetWare. It also supports the improved TCP/IP network protocol and a choice of GUI; OPEN LOOK or the OSF / Motif. The family of UnixWare products includes UnixWare Personal Edition; a powerful single user product, UnixWare Software Development Kit (SDK); providing a complete set of development tools.

LAN WorkPlace for DOS. Provides DOS and MS Windows users with direct access to a broad range of dissimilar computing resources using the industry-standard TCP/IP suite. It is an easy-to-use product and is the first TCP/IP solution to take full advantage of the MS Windows Graphical User Interface. Comes bundled with NFS



...SYSTEMS is the Country Distributor of Borland products.
...s the National Reseller for Borland products.
...ecial offers and bundles of a vast range of products contact:
...a free colourful Software Finder covering ...sands of products from round the world ...ase write to:

BINARY SEMANTICS LIMITED

CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, **TEL:** 91-11-579 5615, 579 8069, 579 7078, 579 7084, **FAX:** 91-11-579 9406.
OVERSEAS OFFICE: PENNSYLVANIA STATE, P.O. BOX NO. 483, P.A. - 17001, **U.S.A. TEL:** 717-731-8468, **FAX:** 717-731-9857
...ACHES: **BANGALORE:** 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, **TEL:** 91-080-221 5785, 224 0222, 224 1222, 224 3283, **FAX:** 91-080-221
...BOMBAY: 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, **TEL:** 91-022-621 0867, 628 6937, 670 5763,
...AX: 91-022-670 5762; **CALCUTTA:** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, **TEL:** 91-033-473 3109, 473 2101, **FAX:** 91-033-473 0687; **CHANDIGARH:** 14, HORIZON
...CHAMBERS, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, **TEL:** 91-0172-706722, **FAX:** 091-0172-706043; **HYDERABAD:** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY,
...ERABAD - 500 026, **TEL:** 91-040-773 0399, **FAX:** 091-040-773 2811; **PUNE:** AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE -
...TEL: 91-0212-44 8063, 43 2352. **FAX:** 91-0212-47 7829; **MADRAS:** 675, ANNA SALAI 1000 LIGHTS, MADRAS - 600 006, **TEL:** 91-044-852 4438, **FAX:** 91-044-852 4112

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

...ihaj Foundation Chennai and eGangotri

CC-0. In Public Do...

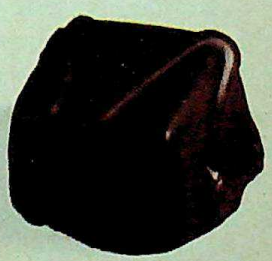
Digitized by Arya Samaj Foundation Chennai and eGangotri

no calories.

On the lookout for post production options that cut time, money and effort to the bone? Even while gorging on some of the most hi-calorie possibilities in video and film production?

Do what the big guns like B.R. Films, Zee TV, Doordarshan, Television Eighteen and others do. Stick to Benchmark's all-encompassing range of non-proprietary film and video post production equipment.

Where for example you have ,at the least, 7 options for your Graphics or Animation needs. Like the Inscriber, IlluminatorPRO, VMAXX and others. Another 3 for Video Editing like the Matrox Studio, D-Vision PostSUITE, and Virtual Recorder. Another 5 for Multimedia Subsystems.
Getting monotonous, aren't we?



For the entire menu check out the bottom of this ad. For the secret behind it, get in touch with Rinku Roy. You can fax her on 91-44-491 0123.

Yeah, time you switched diet, huh?

BENCHMARK

India's film and video post production store.

BENCHMARK MICROSYSTEMS PVT. LTD. Ceebros Arcade Sardar Patel Road Adyar Madras 600 020 India **Phone** 91-44-491 0054 **Fax** 91-44-491 0123

Clarion 5Q1E04

MATROX Studio

D VISION Post SUITE

VR Virtual Recorder

OPTIBASE LEADING THE MPEG REVOLUTION
- MPEG-1 ENCODER
- MPEG-1/2 DECODER
- MPEG-1E1 VIDEO COMMUNICATIONS LINK

Matrox Marvel Millennium

All trademarks, registered trademarks, and logos are of their respective holders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

OS/2 Warp: New Developments

This will be available in technologically stronger versions in 1996

IBM sold more than four million copies of OS/2 Warp, the first 32-bit PC operating system, within 16 months of its release. While Microsoft has more numbers to show (almost seven million in a smaller timespan) OS/2 Warp is very popular with its users. Knowledgeable people are ready to accept the fact that OS/2 Warp is technically superior to Win95, its closest competitor.

Warp Connect

IBM recently released a new version —Warp Connect. This was aimed specifically at business users who needed to be networked because their jobs demanded it. Warp Connect made peer-networking possible and users could create corporate networks ranging widely in size. Users could also dial into larger networks such as the Internet.

Although issues relating to its installation are still a matter of debate, Warp Connect's performance on a network is very highly rated. IBM's System Object Model (SOM) and Distributed System Object Model (DSOM) are ahead of their time. DSOM allows the operating system to treat network resources as objects on a desktop, so that one desktop may contain objects from networks anywhere in the world. If current trends in the computing industry continue, all users will be able to work on networks as easily as this. Warp Connect is a good buy even for small businesses, which use no more than two PCs, to share common resources.

OS/2 for Power PC

IBM has also been working on operating systems for other platforms, such as the PowerPC. The beta version of OS/2 Warp for PowerPC is available for $215 overseas. OS/2 Warp for the PowerPC will be available later this year.

Falcon, also known as the OS/2 Warp Connect for PowerPC, has almost the same features as the Warp Connect for Intel-based systems. It has been built around an IBM microkernel, so programmers can port applications to and from systems supporting the IBM microkernel. Falcon will be released sometime in 1996, and will be known as OS/2 Warp Connect version 1.1 for the PowerPC. The 'Hawk' will be the PowerPC version of the OS/2 Warp Server. Sometime in early 1997 (or even in late 1996) IBM could announce a converged operating system to run on the IBM microkernel, with extensive common support for the Intel and the PowerPC platform.

OS/2 Warp Server

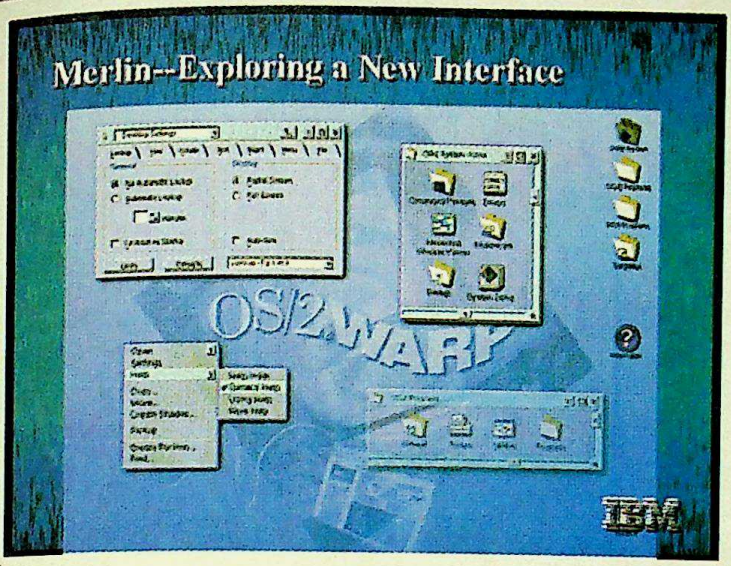
OS/2 Warp Server builds on the combined strengths of OS/2 Warp and OS/2 LAN Server 4.0. OS/2 Warp Server includes an integrated installation procedure, system management features previously available separately, an excellent backup, a remote access server, advanced print functionality and improved networking support.

Initially, there will be two versions of OS/2 Warp Server—Entry and Ad-

Warp remains the desktop OS for comms and networking—and spins off new flavors and a new version

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



...ed. Advanced will include ...FS386 as well as being ...signed and configured to ...pport up to 1,000 client ...chines per server. Entry ...l include regular HPFS ...d is designed for smaller ...works.

...OS/2 Warp Server is ...rently undergoing a large ...rnal beta program that ...gan in early September. A ...ond beta was made widely ...ilable in early December. ...2 Warp Server is slated ... a release in the first ...rter of 1996, so expect an ...uncement any day.

...rlin—The New Wave

...Though IBM is yet to officially ...ounce this, Merlin is the code name ...OS/2 Warp 2, or OS/2 3.1. Merlin ...es in at a stage when Warp has ...ved its technical superiority over ...er operating systems in the market. ...h Merlin, the operating system's ...rface is emphasized and its internals ...e strengthened.

...Merlin's user interface has innova...e features such as translu...nt backgrounds for folders, gradient ...ring of dialog boxes, toolboxes ...d rolled-up windows. Merlin will also ...port irregularly shaped windows. ...e help system will be enhanced and ...ers can exit with a single mouse ...k.

...Merlin's "Trapdoor" will allow OS/2 ...ers to work with DOS or Windows 95. ...e operating systems will leave a ...all stub in the memory, which users ...activate. Once users exit from a ...pdoor" session, they can return to ...with OS/2. This will allow OS/2 ...Win95 to coexist on the same ...em.

...Merlin will also support Win32s up ...e 1.25th level, so programmers ...d port their Win32 applications to ...OS/2 platform. Such applications ...ld only have to be reworked up to ...s to work with a stable and robust ...em such as OS/2. IBM has beta-...ed Merlin's Win32s 1.25 application ...ort. The current beta version does ...support the newest revision (1.30) ...Win32s, which adds on Windows ...e common controls and dialogs.

Merlin supports multimedia with CD Autoplay, advanced JPEG support, Standard mixer Applet, MIDI Instrument editor, enhanced image viewing and capturing, DART (Direct Audio Real Time) drivers. For developers DIVE (Direct Interface Video Extensions) have been extended to support full screen display, and EnDIVE has been added to support the hardware acceleration features of video cards. 3D graphics and game development are supported by OpenGL and BRender.

Merlin's machine interface should help increase its stability. The enhanced HPFS system will no longer limit a single file's size to 2GB, the CHKDSK command will work faster and users will be able to utilize a dynamic cache.

Merlin might ship with support for a new file system; whether this file system will be based on the JFS (Journal File System), used on AIX machines, or AFS (Andrew File System). The AFS is designed for a WAN system, where a virtual file system helps users access drivers and files located all over the world. These files and drivers could then be moved around the desktop and the client applications will still treat them as files.

AFS is perhaps the best file system, in terms of distributed access and control, and probably the most likely to be shipped with Merlin. With IBM taking over Lotus, perhaps the best Lotus products will be bundled with Merlin. Though no concrete information is available, there is a strong possibility that Ultimail/2 Lite in Warp will be replaced by Lotus cc:Mail, along with added support for POP and SMTP. A Notes 4 Client will probably be bundled with the package. This would be great out-of-the-box support for Lotus Notes users.

Merlin might also include another enhancement, Symmetric MultiProcessing (SMP), to cater to dual-processor based systems. IBM officials, in their various press statements, have now been talking of "Voice" as the major operating interface. The industry grapevine has it that some work has already begun in that direction in full swing. IBM recently demonstrated VoiceType Dictation (VTD) software on an MWAVE 2.0 ISA board. It would not be surprising if VTD was shipped with Merlin.

At the end of all this, what we will *not* have is probably support for Win32 binaries, Macintosh applications and the much hyped multi-platform convergent IBM microkernel. Merlin is due for a wide beta release towards the end of March 1996, and the package is scheduled to be shipped mid-1996 onwards. Keeping in view past performance in promised deliveries, quite different from the Microsoft trend, we should expect Merlin or Warp 2 or OS/2 3.1 to be available on store shelves by July 1996.

IBM Java

This information may already be outdated by the time you read this. For the latest update on the use of JAVA with OS/2 the best place is to visit the site http://ncc.hursley.ibm.com/javainfo/ on the Net. As of now, what is known is that IBM did port the alpha version of Java on OS/2, but when the beta version was received, it was realized that the entire port would have to be rewritten. Since November 1995, the IBM team has been working on porting Java on OS/2. The first beta release was expected on 22nd January 1996. As of now there is no information about the beta release, but what is confirmed is that the '1beta1' and '1beta2' will be released as soon as Sun makes the Java beta version available. In fact IBM plans to provide the Java port for both OS/2 as well as AIX.

Alok Sinha

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Networking In Win 95

Your networking worries addressed by Stream International

What's the difference between Novell's and Microsoft's NetWare client software for Win 95 and how do I install my choice?

Win 95 includes both the Microsoft client for Novell Networks and comparable software from Novell (Novell NetWare Workstation Shell for either 3.x or 4.x networks). The Microsoft version is 32-bit protected-mode software versus Novell's 16-bit real-mode software. The Win 95 file system operates in 32-bit protected mode, so to use the Novell software, the processor will have to switch between real and protected mode, which will slow performance. The Microsoft software, unlike Novell, also supports long filenames and peer resource sharing.

Tech Tip: Novell will release 32-bit protected-mode software in the fall of 1995, so check into that as a third alternative.

To choose and install a NetWare client:

1. Open the Start menu, choose Settings, Control Panel, and double-click on Network.
2. In the Configuration tab, click on Add, select Client, and click on Add again.
3. Select from the Manufacturer's list, Microsoft or Novell, choose the network client you want and then click on OK.

◆

Can a Win 95 computer act as a Novell NetWare server ?

To install file and printer sharing for NetWare networks service, so that the Win 95 machine can act as a NetWare file and print server:

1. Right-click on Network Neighborhood, and click on Properties.
2. On the Configuration tab, click on Add, select Service and click on Add again.
3. Select Microsoft and select file and printer sharing for NetWare Networks. This will load a virtual device drive (called Nwserver.vxd) that enables Win 95 computers to process NCP-based requests for file and printer input/output.

◆

How do I install Win 95 on a computer with networking support from a network vendor other than Microsoft or Novell ?

First, before you install Win 95, be sure that your network client software is correctly installed under MS-DOS, Windows version 3.1, or Windows for Workgroups, and that the network is running when you start Setup. During Setup, Win 95 should detect a network adapter and install Microsoft Client for Microsoft Networks by default. Notice that the configuration tab in the Network control panel provides the same controls for adding and removing networking components after Win 95 Setup is complete.

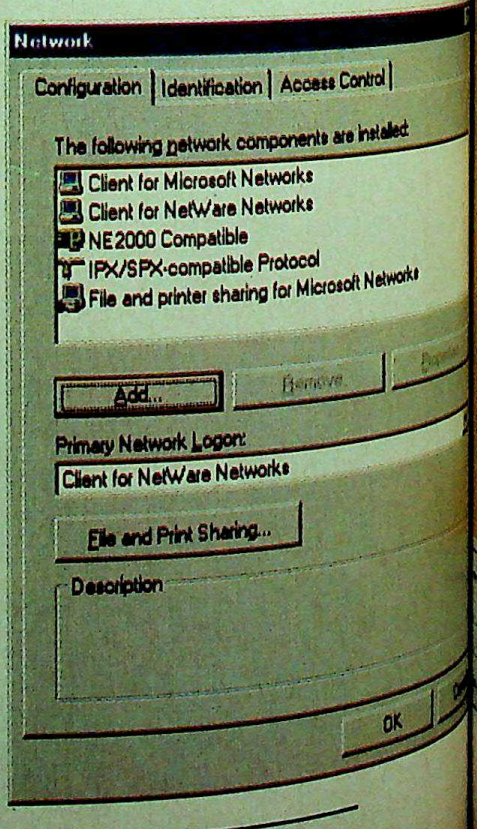
Tech Tip: Install any non-Microsoft network before you install Win 95 and then install networking support during Win 95 Setup, not after the fact.

◆

Why can't I connect to my net... after installing Win 95 ?

If your network is supported ... 95 with Win 95 protected-mode d... (primarily Microsoft and Novell net... when this is written), you may ... conflict between real and pro... mode drivers. Make sure the appro... client software is installed by op... the Network control panel. Use No... to open your Autoexec.bat ... Config.sys files and remark out ... rem and a space on the left of the ... all real-mode network drivers (... Microsoft or a Novell network wi... Microsoft client, you don't need ... statements in your system files ... load network drivers). If your net... isn't supported in Win 95 with Wi... protected-mode drivers, you ha... load real-mode client drivers in ... Autoexec.bat or Config.sys files. I... an unsupported network, make su... have the network fully installed ... operating before starting Win 95 S... If you think that all your netwo... software is correct and to make ... that the resources are correctly assig... to your network adapter:

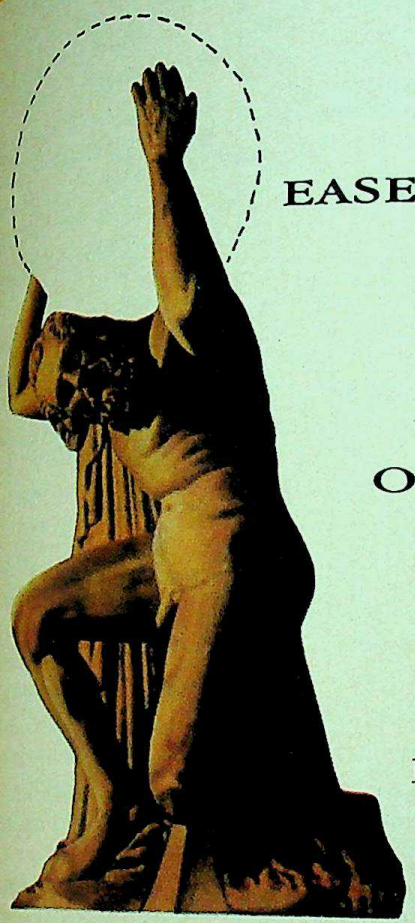
1. Right-click on the Net...



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Oracle Workgroup 2000
Proof that you can.



EASE YOUR BURDEN WITH

ORACLE POWER OBJECTS'

DRAG - AND - DROP

FACILITY.

A visual programming tool, Oracle Power Objects automates complex database functions by letting you reuse codes quickly via the drag-and-drop technology.

Its straightforward, easy-to-use interface lets you insert and delete data located on a server RDBMS with full transaction support, true multilevel inheritance and no coding whatsoever.

So if your tool is burdensome just mail us the attached coupon.

And we'll help you take the weight off your back.

ORACLE®
Enabling the Information Age

Clip(s) from VOGUE

...want to know more about Oracle Power Objects. PQ

Name ..... Address : .....

Company ..... Tel : ..... Fax : ..... E-mail : .....

Please mail to : Rajeev Mittal, Oracle Software India Pvt. Ltd., 15th floor Dr. Gopal Das Bhawan, 28 Barakhamba Road, New Delhi 110 001. Tel.:3720569 / 70 / 71, Fax: 3720572.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

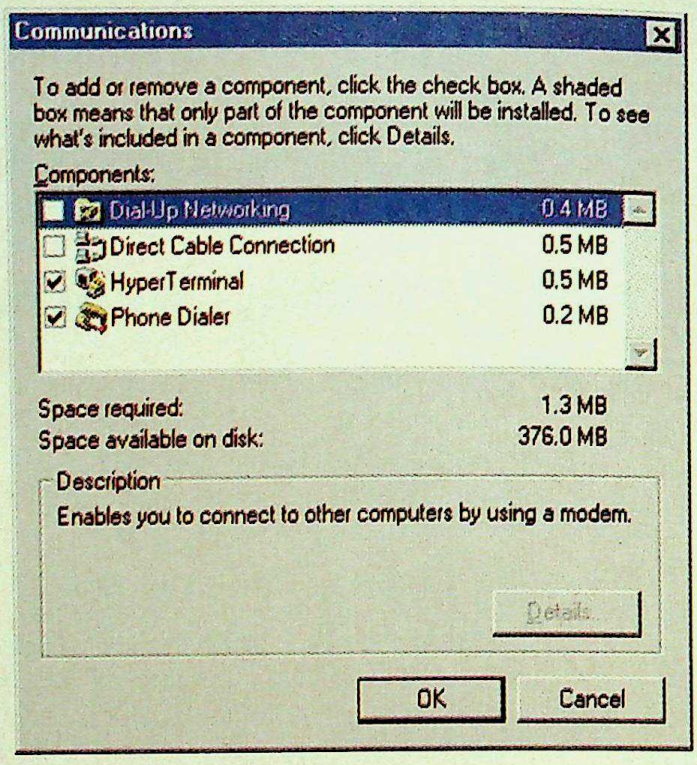
Digitized by Arya Samaj Foundation Chennai and eGangotri

Neighborhood and choose Properties.

2. In the Configuration tab of the Network dialog box, click on your network adapter and click on Properties.

3. In the adapter's Properties dialog box, click on Resources, and check on the Interrupt (IRQ) and I/O address range. The settings you see should match what was set on your adapter card.

4. Make the necessary changes to the IRQ and I/O address and click on OK twice.



How do I install a NetWare client on my Win 95 machine ?

First, you must determine whether to use Microsoft's 32-bit NetWare client, or one of Novell's 16-bit clients. If your network is running either NetWare 3.x or 4.x, use the 32-bit Win 95 Microsoft Client for NetWare. To do this:

1. Click on the Start button, choose Settings, open the control Panel, and double-click on Network.

2. In the Configuration tab, click on Add, select client, and click on Add again.

3. Select Microsoft and client for NetWare Networks. This will give you full protected-mode support for NetWare, and you'll not be using any conventional memory to load real-mode network drivers. Click on OK.

However, if you need to use any of the following NetWare services or functions, then you'll need to use one of the Novell NetWare 16-bit real-mode Clients (NetWare Workstation Shell 3.x or NETX and NetWare workstation Shell 4.x or VLM):

- Load real-mode TSRs from your login script-use either NETX or VLM
- Enable NetWare directory Services (NDS)-use VLM
- Use NCP Packet signature for security-use VLM
- Use NetWare Internet Protocol (IP)-use either NETX or VLM
- Use Novell utilities such as NETADMIN or NWADMIN-use VLM

To use NETX, load the Novell NEtWare Workstation Shell 3.x as follows:

1. Click on the Start button, choose Settings, control Panel, and double-click on Network.

2. In the Configuration tab, click on Add, select client, and click on Add again.

3. Select Novell and then Novell NetWare (Workstation Shell 3.x). Click on OK.

If you want to use VLM, install the Novell NetWare (Workstation Shell 4.x) client in step 3.

Can I connect to a Novell server through Dial-Up Networking?

You must install the Microsoft client for NetWare Networks and the IPX/SPX-compatible protocol, which you must bind to the Dial-Up Adapter driver. To install the client software, see the previous question. The protocol is very likely already installed on your computer. Check this by opening your Network control panel and seeing if you find the following lines in the list of network components:

IPX/SPX-compatible Protocol->Dial-up Adapter

IPX/SPX-comptaible Protocol->NE2000 Compatible

To install the protocol software on your computer if it isn't already installed:

1. From the Network dialog box Configuration tab, click on Add, select Protocol, and click on Add again.

2. Select Microsoft from the list of manufactures and click on IPX/SPX-compatible Protocol.

3. Click on OK.

To check if the protocol is bound to your Dial-Up Adapter:

1. Double-click on your Dial-Up Adapter in the list of components on the Configuration tab of the Network dialog box.

2. Click on the bindings tab. Verify that the IPX/SPX-compatible Protocol is checked. Click OK.

To set up the dial-up connection for use with a NetWare server:

1. Open My computer and Dial-Up Networking folder, then right-click on the dial-up connection you want to use. If you don't have one, double-click on Make New Connection and follow the instructions on screen).

2. Click on Properties in the popup menu, and then click on Server Type. In the Type of Dial-Up Server, click on NRN: NetWare Connect, click on OK twice, and close both the Dial-Up Networking and My Computer folders.

How do I write logon scripts ?

Logon scripts run when you log on to either a NetWare or Windows NT Server. If you have Supervisor's or Administrator's privileges on the server, type NetWare type syscon and either create or edit logon scripts or use User Managament on the NT Server.

Where do I find Interlink in Win 95 ?

MS-DOS 6.x's Interlink is now called Direct Cable Connection. Use it to connect PCs via a parallel or serial cable and share files between the computers. To install the Direct Cable Connection option on the Start menu's Programs, Accessories menu if it is not already installed:

1. Click on the Start button, choose Settings, Control Panel, and double-click on Add/Remove Programs.

2. Click on the Windows Setup tab, select Communications, and then click on the Details button for a list of Communications components.

3. If there is no check mark in front of it, click on direct Cable Connection to install it. Click on OK twice. (If there is a check mark, it is already installed.)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

"My Pass Book. Could you update, please ?"

Eleven in the morning. Business, as usual. Noisy. You're working through your nerves. And there come requests for Pass Book updation.

Who cares? TVS - E.

TVS-E HD 5650. For quality printing on passbooks, cheques, DDs and statements. Designed for horizontal and vertical passbooks, HD 5650 even accommodates printing in Indian languages. And the state-of-the-art Intelli-gap technology ensures uniform print quality on papers of varying thicknesses.

Call us for a Direct Performance Appraisal today. It will not be long, before you and the whole banking industry thank us.

TVS
ELECTRONICS

The versatile printer for Banking Applications.

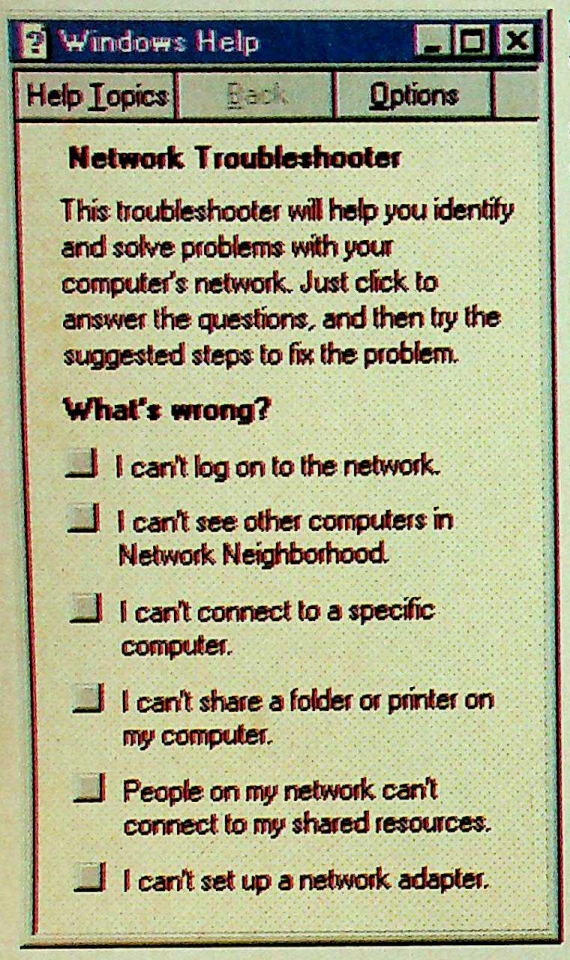
TVS ELECTRONICS LIMITED, 10-B, I Phase, Post Box No. 5805, Peenya, BANGALORE - 560 058.
Tel : +91(80) 839 5000, Fax : +91(80) 839 6334 Telex : (0845) 5009 TVSE IN

REGIONAL OFFICES ◆ AHMEDABAD : + 91 (79) 7478619 / 7411227 ◆ BANGALORE : + 91 (80) 2261713 / 2261723
◆ BOMBAY : + 91 (22) 6247350 / 6247364 ◆ CALCUTTA : + 91 (33) 268355 / 262137 ◆ NEW DELHI : + 91 (11) 6212576 / 577 / 578
◆ SECUNDERABAD : + 91 (40) 847244 / 816667 ◆ MADRAS : + 91 (44) 6412650 / 6412422 ◆ PUNE : + 91 (212) 332856 / 369346

AKSHAR Blr/TVS/9646

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Can I connect two Win 95 computers together, or do I need to buy a special peer-to-peer network program?

Win 95 has built-in networking capabilities. Provided you have the necessary network adapter cards and cables, linking two machines together is no problem. Just make sure both are using the same protocol, for example, NetBEUI. To verify that both computers are using the same protocol:

1. Click on the Start button, choose Settings, Control Panel, and double-click on Network.

2. On the Configuration tab, click on the protocol and click on Properties. Check that network components that will be shared using the protocol are checked in the Bindings tab on both computers.

◆

Why can't I connect to Novell servers?

One of the first steps is to verify that you have installed the IPX/SPX-compatible protocol and set the frame type to AUTO or to the specific frame type your server is using. (NetWare 3.11 servers use frame type of Ethernet 802.3, and NetWare 3.12 and 4.0 server use frame type of Ethernet 802.2.) To check the protocol and frame type you're using:

1. Open the Start menu and select Settings, Control Panel, and double-click on Network.

2. On the Configuration tab, check that IPX/SPX-compatible Protocol is listed as one of the installed network components. (If not, install it by clicking on Add, selecting Protocol, clicking on Add again, and selecting Microsoft, and then IPX/SPX-compatible Protocol. Click on OK.)

3. To verify that the frame settings are accurate, click on the IPX/SPX-compatible Protocol and click on Properties.

4. Click on the Advanced tab and then on Frame Type. Select the type that is appropriate for you.

If this doesn't solve your problem, use the Network Troubleshooter in Win 95 Help to step through possible network problems. To do this:

1. Open the Start menu, and choose Help.

2. From the Contents tab, double-click on Troubleshooting.

3. Double-click on "If you have trouble using the network". The Network Troubleshooter will be displayed.

4. Step through the help screen as you are prompted.

◆

I'm trying to run an application from my Novell server, and I'm receiving an error "Incorrect MS-DOS version." Why is this happening?

If you are using NetWare login scripts, have a script refer to a variable OS Version to map a specific NetWare server according to the version of operating system the workstation is running. Update the procedure to have MS-DOS version 7.0 recognized. Modify the SETVER table to have the correct version reported to the program.

◆

What can I do if Setup doesn't recognize my network adapter?

To identify and install your network adapter using the Add New Hardware Wizard (if this wasn't done during Setup):

1. Open the Start menu, choose Settings, Control Panel, and double-click on Add New Hardware. To begin, click on Next.

2. Allow windows to detect the hardware and click on Next. Cl... again to initiate the search. C... are that the search will find the ... card. However, if the search ... ignores the card, manually ins... continuing with these steps:

3. Click on Next, click on M... adapters, and click on Next ag...

4. Select the manufacturer a... of your card from the lists, and ... OK.

5. If the card isn't listed, ... Have Disk, insert the disk th... with your card, make sure th... letter is correct, and click on O...

6. If you don't have a disk w... Oemsetup.inf file, you'll have ... Add New Hardware and load the ... through your Autoexec.bat ... following the instructions th... with the card. Having done th... the Network control panel Config... tab, click Add, select Adapter, an... Add again. This time, select the ... ODI Driver from the Network A... list and click on OK.

◆

Can I set up my PC to act as a ... to answer calls through ... Networking?

To enable Dial-Up Networking as a server, you need Microsoft ... you have it, follow these steps:

1. Double-click on My Co... and then double-click on D... Networking.

2. Open the Connections me... click on Dial-Up Server. The ... Server dialog box will open.

3. Click on Allow caller acc... click on OK. Your computer ... serve as a dial-up server.

If you don't have Microsoft ... use Dial-Up Networking as a ... call out to external ... servers.

Tech Tip: See if someone is using your dial-up server in the Status box of the Dial-Up Server dialog box.

Excerpted with permission from ... Answers Certified ... by Martin S Matthews and Carole Boggs ... Osborne McGraw ... Distributed in India by Tata McGraw ... Price: Rs 1,00...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Installing Win 95

Tips and workarounds

Win95 version is best?

for the upgrade for an older especially if you have a legal of the existing GUI. A new copy if you've either bought a com- with Win95 pre-installed or want Win95 copy. It's worth investing in a CD drive, as it's easier to install date from CD-ROM. You also get ore stuff on the Windows 95 CD- than you get on the floppies.

alling Win95 from DOS

to the drive that contains your CD-ROM or floppies

pe Setup and press <Enter>.

t instal Win95 from a Win 3.x ession.

alling Win95 from Win3.x

Program Manager: File/Run tup and click OK.

stalling Win95

m Setup from your Win95 CD- r disks.

nstall in the Win95 directory. isting Win95 files will be veri- d damaged files replaced.

ing a multiboot system to run Win95 and DOS

up a FAT partition. eck that Windows NT for dual boot.

e dual boot to get into

itch to your CD-ROM y drive. Type setup s <Enter>.

Unusual hardware se problems during tion. Running DOS WinNT multiboot e a little complicated. OS, choose DOS from oot menu; press F8 Win95 startup message d choose Command Prompt Only from the Win95 startup menu.

Installing Win95 from OS/2

- Install MS-DOS.
- Check if you're running MS-DOS through dual boot
- Create one FAT partition and install Win95 from MS-DOS.

Upgrading a Win 3.x system to Win95

Win95 will compress existing Win 3.x files into W95UNDO.DAT. On uninstal, these files will be restored. Your WIN.INI settings are separately copied to the Win95 Registry. And Program Manager groups appear in the Win95 Start/Program menu.

Win95 doesn't destroy your old apps. You can still use DOS and remove the junk from your Win3.x directory.

Installing Win95 to a new directory takes up more disk space. You might need to reinstall every app and font, and risk losing customized settings. Plus you should install Win95 from Win3.1, or Setup won't find the real mode drivers you need. You could use Win95 's double-boot feature to use Win3.1 and Win95 by striking the F8 key after seeing Win95's startup message.

Win3.1 programs don't need to be reinstalled if \Windows and Windows\-System are in the DOS path so Win95 can find both programs and .DLLs. Win95's GRPCONV.EXE can automatically convert Program Manager groups into Win95 programs.

Precautions for Peace of Mind

- Copy .INI files to the Win95 directory from the Win3.1 directory.
- Run your apps.
- If any DLLs are missing an error message will be displayed giving the exact problem. Make a note and copy the missing file(s) to the Win95 directory.

Note: Reinstall apps only if this method fails.

A Compact install of Win95 in its own directory occupies 30MB but a Compact install over Win3.x occupies 20MB.

If you have a modem installed, a Compact installation could get you Dial-Up Networking and Direct Cable Connection.

More advanced Win95 apps need to be installed manually from the CD.

A Typical install doesn't give you QuickView, Clipboard Viewer, Backup, System Monitor and the System Resource Meter. Nor can you play games or listen to MIDI files.

Networking components such as WinPopUp and Winchat in a Win95 Typical install enable you to communicate with all or any of the people on your network.

Preparing To Install

- Check your system for the following:
- The right amount of memory (min 8 MB RAM; ideal 16 MB)
- Enough hard disk space (min 35 MB, ideal 100 MB or more)
- A fast chip (min 386, ideal 486DX4 or higher)
- Create a DOS boot disk.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

• Copy your existing AUTOEXEC.BAT, CONFIG.SYS, EDIT.COM, HIMEM.SYS, MOUSE.COM and any other files listed in AUTOEXEC.BAT and CONFIG.SYS to this disk.

• Check the boot disk by popping it into your floppy drive and pressing the Reset button.

• Next back up both files and give them different extensions.

• Open the original files in Windows' Notepad or DOS' Edit.

• Search for a line in AUTOEXEC.BAT going—CD\WINDOWS or WIN. Type a REM and a space before both lines, to turn them into comments.

• If AUTOEXEC.BAT calls any other .BAT files, put a rem before these lines.

• Close and save your changes.

• Open CONFIG.SYS in Notepad or Edit.

• Look for DEVICE=EMM386.EXE 512 HIGHSCAN and remove HIGHSCAN.

• If you're using DOS 6.x, you could have used its Menu command to specify multiple configurations in CONFIG.SYS. Use the same command to pick the configuration you use most often and delete the rest.

• Remove any line from CONFIG.SYS that reads LASTDRIVE=E.

• Close and save changes.

• Reboot to see if you can get into Win3.1.

• If not, copy the backed-up files to the hard drive and try again.

• Remove third-party memory managers, such as 386Max or QEMM, with MemMaker.

• Recheck AUTOEXEC.BAT.

• Defragment and scan your hard drives and back up your data.

• Put together the following information before installing Win95:

• Your network workgroup name;

• A unique code name for your computer;

• An inbound phone number if you're using Microsoft Fax;

• The path to your post office, your user name and password if you're using Microsoft Mail;

• The official model name/number of hardware attached to or in your computer and

• A blank disk for your floppy drive, which will be your startup disk.

• Check your peripheral devices and your network connections for malfunctions.

• Reboot your machine, go to Win3.x, if that's your setup choice.

• Test all peripherals and network connections again.

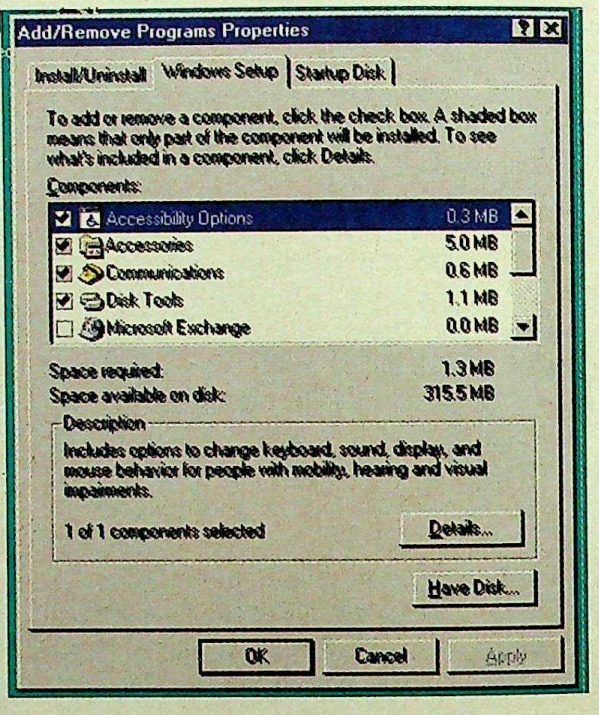
Setting Up Win95 From Win 3.x

• The Win95 Installer checks your system.

• It decides which portions of Win95 you need.

• It copies files and establishes preliminary hardware settings.

• It reboots, sets up some general items and reboots for the final time. NB: Win95 may hang after the first or second reboot, but Setup resumes after a hot boot.



• Choose File/Run from Program Manager.

• Type the drive name and setup.

• To stop the Installer checking your drives use the /IS switch. If you've got enough disk space, use the /ID switch too.

• After checking your hard disk, the Installer loads its Wizard.

• Once the Wizard appears, click on Next.

• Win95 will now take a note of the choices you make during installation in a log file called SETUPLOG.TXT, located in your root directory.

• Choose whether you want to run Win95 on top of Win3.1 or from a new directory.

• This decision will lead to ation of a new Win95 folder.

• If you're short on disk choose Compact or Portable, go for Custom.

• You can click on a category Select Components dialog box, Display and choose the optio like.

• After you've chosen your option, the Installer will ask your name, your company na your Product ID number.

• The Installer will now analyze your computer, by MSDET.INF's instructions.

• Its discoveries are DETLOG.TXT, in your boot folder.

• Another file, called RASH.LOG is created if staller crashes.

• If your machine hangs off, restart the Installation and click on Use Safe Recov ommended).

• Modify the hardware you know that some hard your computer causes proble ing analysis.

• The Get Connected comes next. Choose Micros work and Microsoft Fax if a modem.

• The Wizard also allow correct its choices for netwo cols and dial-up networki bilities.

• You should choose File and Sharing if you're on a network want your co-workers to see and printers.

• If you have interface car and a hub, you could set up peer-to-peer network.

• Enter your Workgroup a unique Computer name.

• The Wizard lets you choices for the drivers it picke machine.

• Contact manufacturers correct hardware brand nam point. Don't choose generic

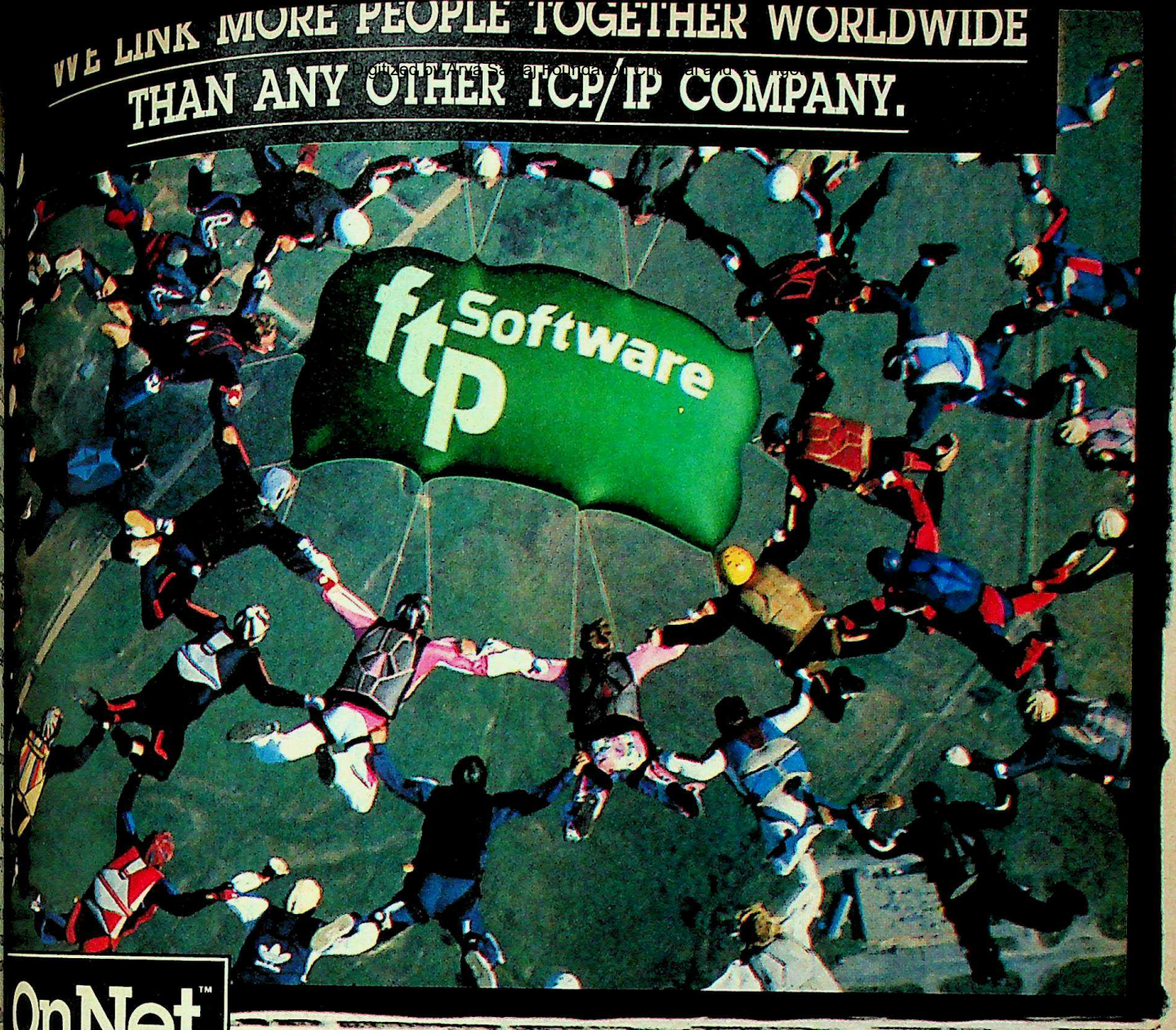
• Create a Startup disk.

• Use the Registration Wiz information about yourself chine and your apps to Mic

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WE LINK MORE PEOPLE TOGETHER WORLDWIDE THAN ANY OTHER TCP/IP COMPANY.

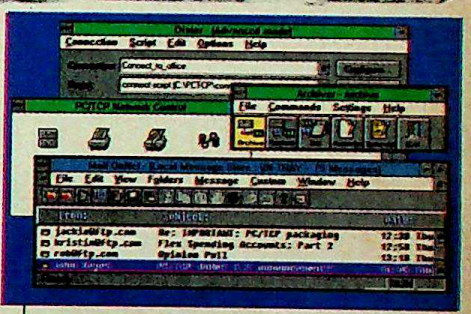


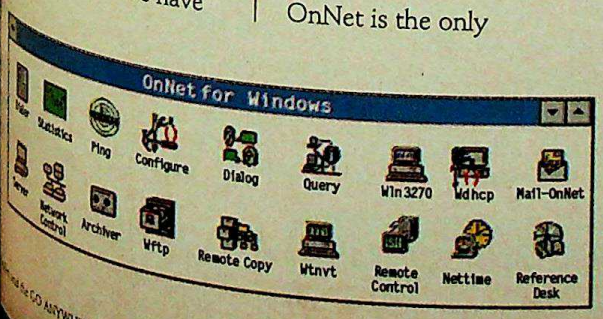
OnNet™ for Windows

NO ONE HAS A STRONGER COMMITMENT TO SERVING ASIA-PACIFIC'S NETWORKING NEEDS.

Each year, more and more business people around the world are choosing FTP Software applications to bring the vast resources of global networking to their PCs. In 1986, we were the first to bring TCP/IP to the PC, and now we have become the world's premiere supplier of TCP/IP applications, with a market share surpassing 25%. Hundreds of Asia-Pacific companies rely on FTP Software's growing OnNet family of TCP/IP applications because of their proven reliability, easy-to-use features, and dedicated technical support. PC/TCP OnNet is the only TCP/IP package that offers advanced networking features such as multicast, gateway fallback, router discovery, and a 32-bit VxD NFS client. Discover for yourself what over one million users worldwide already know. For information on how to purchase FTP products, please contact our national distributors.

WE SPEAK THE WORLDWIDE LANGUAGE OF TCP/IP.





Priya GROUP

Priya International Ltd.
Tel: 91-22-2663611
Fax: 91-22-2664154
PO Box 10109
109 S.A. Brelvi Road
Fort Bombay 400001
e-mail: aditya@giasbm01.vsnl.net.in

ftp Software®

Opening Windows To Productivity

e-mail: info@ftp.com

WWW: http://www.ftp.com

Vandit Designs Globe Scape-FTP/A

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

FTP Software, 2953 Bunker Hill Lane, Suite 101, Santa Clara, CA 95054 USA
FTP Software and the GO ANYWHERE logo are trademarks and PC/TCP is a registered trademark of FTP Software, Inc. Other tradenames, trademarks, or registered trademarks are the property of their respective holders.

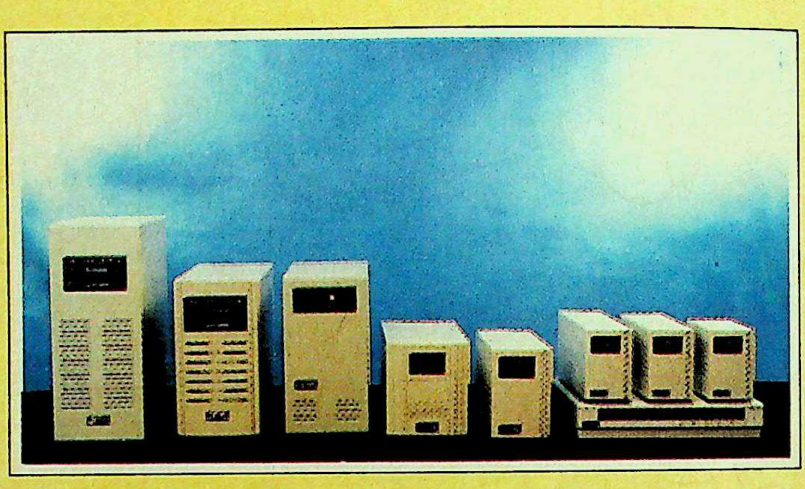
Digitized by Arya Samaj Foundation Chennai and eGangotri

SHIELD

of power protection during power failure, brownouts, fluctuations, spikes, sag etc.

POWERCOM

UPS + AVR



UPS + AVR Features : ■ 75% to 125% of Input voltage for best Lan/PC protection ■ Microprocess Controlled ■ Built in MF - Batteries ■ Wide range Offline : 250VA to 1200VA, Online : 1K to 15KVA ■ 1 year comprehensive warranty ■ Compact yet powerful ■ Built in Novell Port

yes NetWare Tested and Approved

More than 4000 countrywide installations
All India Dealer Sales / Service Network

Now Available
UPS KING SERIES
425 VA

KUNHAR PERIPHERALS PVT. LTD

A-23, Shri Ram Industrial Estate, 13, G.D. Ambekar Ro
Near Wadala Telephone Exchange, Wadala, Bombay -
Tel. : 4130442 / 4130646 Fax : 91-22-4130218

Factory : Gat No. 142/2/1, Dingraj Wadi, Koregaon Bhima,
Taluka Shirur, Pune. Tel. : (02137) 52519 Fax : (02137) 52

Authorised Distributors

BOMBAY ★ Avion Electronics Tel. : 3858959 / 3882137 / 3880237 ★ Essens Power Conversion Tel. : 5564284 / 5572959 ★ S
Power protection Tel. : 5653230 / 5648169 **POONA** ★ MKM Tubes Tel. : 630695 / 630973 **INDORE** ★ Fino Marketing Tel. : 5
★ K.K. Computers Tel. : 533467 **NAGPUR** ★ Viba Enterprise Tel. : 530490 **NASIK** ★ Technocrat's Systems Tel. : 579510 **NA**
★ Bugs Computers & Systems Tel. : 52654 **NEW DELHI** ★ Axlon System Tel. : 6414392 **BANGALORE** ★ Vak Computers Tel. : 22
HYDERABAD ★ Rook Technologies Tel. : 819773 **GOA** ★ Computer Shop Tel. : 223712 **SURAT** ★ Rohan Business Machine
: 30001 / 426651 **BARODA** ★ Pearl Communica Tel. : 452558 **BHARUCH** ★ Pearl Communica Tel. : 36064.

WANTED DEALERS IN UNREPRESENTED AREAS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

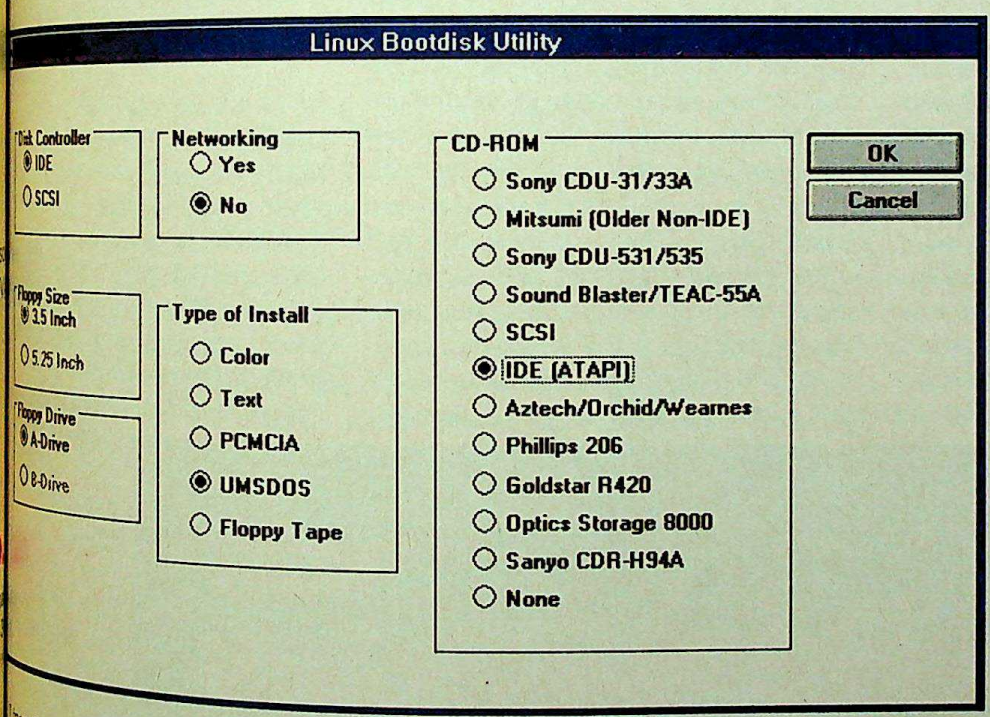
Digitized by Arya Samaj Foundation Chennai and eGangotri

The Complete Linux Kit

had been wanting to lay my hands
on the "full" Linux for some time
now. Linux via anonymous ftp is a
painful process, even if you are on a
64kbps link to the Internet. There are
hundreds of directories, with an equal
number of READMEs and HOWTOs
and FAQs. The usual expectation
is cute little LINUX.ZIP is never
filled.

background, overshadowed by the thought of over 350 MB of big-kitty-ware. But plonk the CD into your drive, and what have you but the familiar sight of tons of files—most of them either README's or suspiciously called INSTALL.EXE. This is where the book begins to stir.

This CD-ROM contains Slackware Linux, considered the best Linux



Linux has come to mean Linux with
Windows, but if the anonymous ftp
sites have X bundled with Linux, they
are being very discreet about it. Linux
also means emacs, exciting GNU stuff,
and more. Linux means a lot of files.
So when one finds a book with a CD
that apparently has Linux 1.1, X11
(with development tools), emacs,
GCC, Smalltalk and Tcl/Tk (among other
things) going for Rs 375, one goes after
it. Sold.

In the beginning, the book lies in the

distribution around, with the Linux Kernel 1.1, which is not the most recent, but good enough (the version on the PCQ CD-ROM with this issue, also Slackware Linux, has the more recent Linux Kernel 1.2).

The book is actually two books. The first book is specific to the bundled CD and its contents. Each distribution of Linux packs stuff a little differently, and so does this distribution called Slackware Linux. So you have instructions on what to do if you have SCSI hard disks and other weird quirks in your system. Thankfully, my system seemed to be made just for the CD (the bootup even said something like "WP bit is honored by your processor. Good.").

And keeping impatient people with the recommended sysconfig in mind, the book does not delve too deeply into variations—preferring instead to directing such rebels to the large number of FAQs also on the CD. But whatever combination of SCSI, IDE, CD-ROM drive and hard disk you use, you'll find the right files with some care. In fact you don't even have to create separate partitions or resize them (which would have involved formatting your disk).

The main theme of the first book is in getting Linux to work from a standard DOS directory. A separate partition is said to be faster, and I did that (apparently, there are utilities like FIPS that resize partitions for you dynamically, without requiring a clean format, available on the Net).

Once the initial boot disks are made, the rest is easy. It is fun doing menu-driven, color screen installs in a UNIX clone.

Installation is a lot of fun, but once you use up about 100 MB of your disk you probably have all that you need.

The second book is a more generic manual on Linux. Not much help in getting TCP/IP up, and so on. That would require blood and sweat!

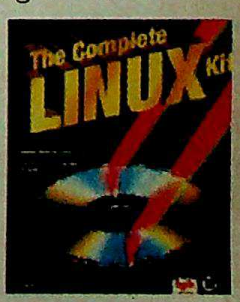
The paper and printing used with this reprint isn't exactly exciting. A book this important could have done with better production.

This is a great CD-ROM and a fairly useful book. Overall, great value.

The Complete Linux Kit (with Linux on CD-ROM)

Daniel A Tauber
Sybex/BPB Publications.
420 pages, Rs 375

RQS#E0342



PV Subramanian

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Slackware Linux

Installing and working with the world's favorite free OS

One of the greatest ironies of the release of Windows 95 was that suddenly, people began taking other 32-bit operating systems much more seriously. OS/2 saw a boost in sales, as did SCO UNIX. But Linux did not see a boost in sales—naturally, because Linux is free.

Being free does not make Linux any less a contender, though—in fact, Linux is being very seriously eyed by many commercial software developers as a viable and stable platform to develop for.

Linux is a true, 32-bit, Posix-compliant UNIX-like operating system that has been developed and optimized for the Intel 386/486/Pentium platform. It has a fascinating history behind it (see "Linux—An Experiment Gone Right" elsewhere in this issue) and is in use in small home set-ups all the way up to huge megacorp establishments. People have learnt to trust it, and are actually having a lot of fun with it, too. Unlike proprietary operating systems such as Microsoft Windows 95 or OS/2, Linux is developed and maintained by thousands of people world-wide, and the complete source code is always available, allowing end-users to fix or even enhance Linux operations and functionality. All this has resulted in an operating system that today rivals its contemporaries in terms of power, flexibility, extensibility, speed and acceptance.

I first "met" Linux in 1992, when it was still pretty raw. Having just suffered through the pains of installing a commercial UNIX system, I was amazed at the ease at which Linux installed, and by its completeness. Most commercial UNIX systems cost an incredible amount of money, with everything being an extra—including compilers, utilities, networking, etc. Linux, on the other hand, had everything included, and then some.

Over the years, a Linux installation has always been hanging around on one of my hard disks, and much of my free time has been spent "playing" with the OS, exploring its capabilities and power. Today, Linux is very stable, and a real pleasure to work with. Updates are available on a near-daily basis from the Internet, and the frequent appearance of new features is now an accepted fact. Linux will allow you to compile and run almost every piece of software available on the Internet today, and will run binaries meant for other UNIX versions, and some other OSs (including binaries meant for DOS UNIX). And yes, it can even run DOS programs.

Installing Linux is a trivial affair, much less demanding than a Windows 95 or OS/2 installation, and completely risk-free—you do not have to format or repartition your hard disk, and uninstalling it is simply a question of deleting a subdirectory on your DOS hard disk.

In this article, I will take you through the basics of installing Linux so that you can quickly get up and going. If you have had past UNIX experience, you are virtually home free. If you are a complete novice—fear not. Linux is the easiest possible way to get your feet wet.

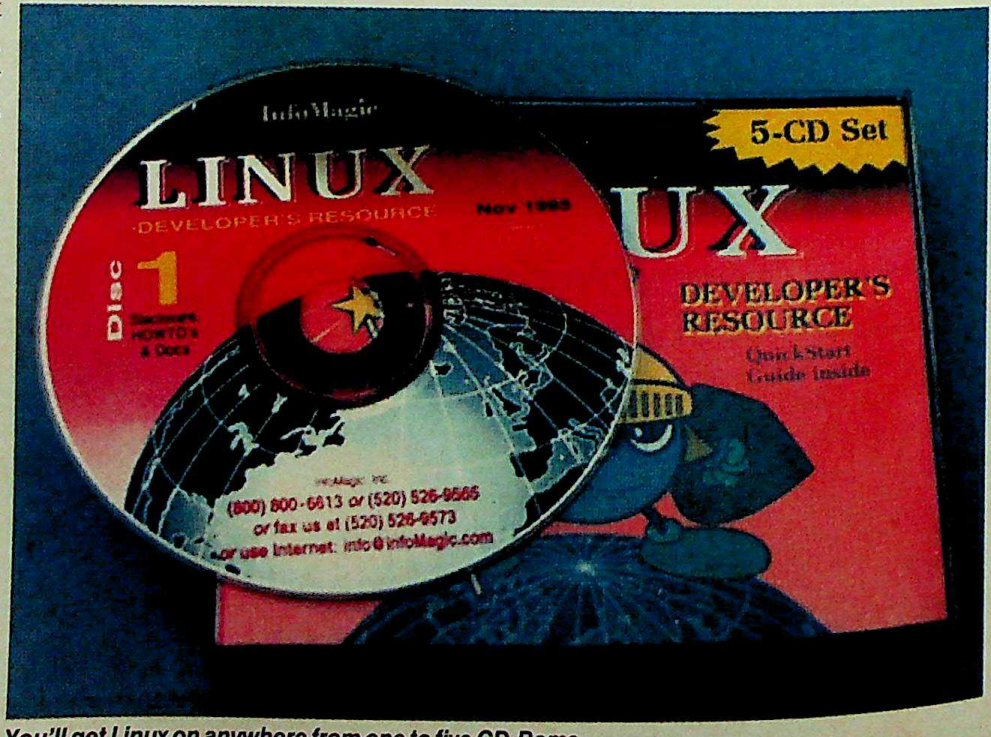
Here we go.

Installing Linux

First of all, make sure you have enough hard disk space free. For a really complete setup, I suggest you have at least 150 MB free, though you can also get away with far less.

Make a checklist of your equipment—what hard disk do you have, what CD-ROM model is installed (you will need a CD-ROM drive to install off this Quest Spring '96 CD-ROM), in which partition you want to install Linux, etc.

Now get your formatted 1.44 MB 3.5" diskettes ready, pop the CD-ROM into the CD-ROM drive, and prepare for battle.



You'll get Linux on anywhere from one to five CD-Roms

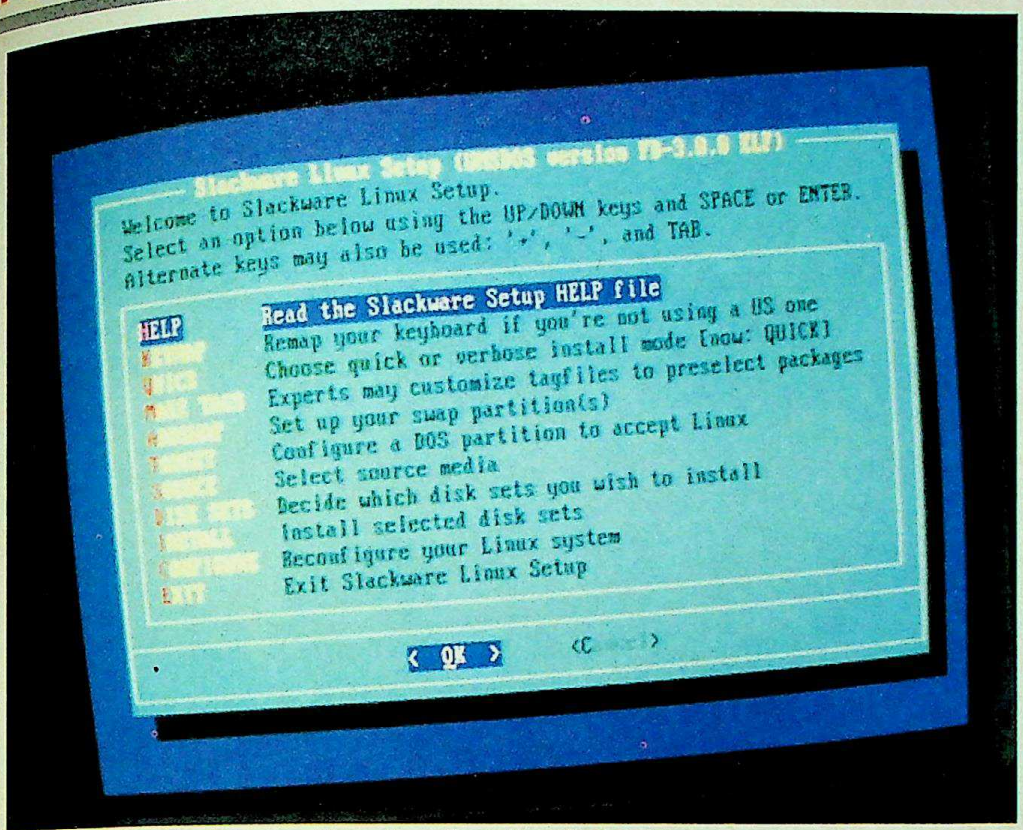
Making Boot Disks

First of all, you need to create the Linux installation boot disks. This is very simple.

If you have Windows installed, run the program

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



A menu-driven Setup takes you through configuration after bootup

ST.EXE in the ectory \LININST. the various ions (select SDOS in type of ll, then follow instructions. At end of the proce- e, you will have OOT and a ROOT

f you do not e Windows ins- ed, you can do s manually, too. Pop into the ectory \SLACK- AR\BOOT144 d select a boot- ge that is best ed for your envi- ment (especially e CD-ROM drive). fer to the file ECH.ONE for in- rmation about the various boot images ailable.

Once you have selected your boot ge, you need to write it to a diskette. do this, run the program RAWRITE nd in the \UTILS directory and write e selected boot image to drive A.

Now go into the \SLACKWAR\ROOT- NS directory and write the file UMS- S.GZ to the other diskette.

Label the first one BOOT, and the ond one ROOT.

ooting Up

Insert the BOOT disk into drive A, d reboot. Your machine will now boot f the diskette, and issue you a prompt. ou have a standard IDE or SCSI CD- M drive, just hit <Enter> to continue. er some time you will be prompted to sert the RAMDISK (which is your ROOT sk). Change diskettes and press nter> to complete the boot process.

If you have a SONY CD-ROM drive, u have to change the procedure ightly, since the SONY disk is not o-detected. So, at the boot prompt, e: rawdisk cdu31a=0x230,0 and press nter>. This tells Linux that your CD- OM drive (CDU31/33A) is located at ddress 230h, and uses software oning.

After successfully booting, you will nd yourself at the login prompt. Enter "root" and press <Enter>. Hurray! You are logged in.

Installing

OK, don't go overboard. This is just a very minimal Linux, meant to run the setup program. But go ahead, snoop around. Use the UNIX 'ls" program to check out the contents of directories, etc. When you are ready, type "setup" and press <Enter>. This will bring up the installation program.

Select "Target" to tell Linux where you wish to install. Don't worry, it will not erase anything or tamper with your partition table. Linux will ask you in which DOS partition you wish to place Linux—select "/dev/hda1" for the first DOS partition or "/dev/hdb1" for the second hard disk. If you wish to place Linux in the second partition on the first hard disk, use "/dev/hda5", and so on.

You can make your other DOS partitions visible, too. Linux will show you a list of available partitions, enter those you wish to make visible (if you have any more partitions, that is), and assign names to them (for example, you can assign "dosd" for the D: drive partition). Enter "q" when done.

Next, Linux wants to know where the install files are located. Select "CD-ROM". Linux should guide you through the detection of your CD-ROM drive, and allow you to select it.

If Linux has problems detecting a hard disk, then you may not have used a boot image that contains the driver for your CD-ROM drive, or, if it is a SONY drive, you may not have specified the port address as instructed above.

If it is the former (driver for CD-ROM model not included) recreate a boot disk with the right driver, and repeat the above.

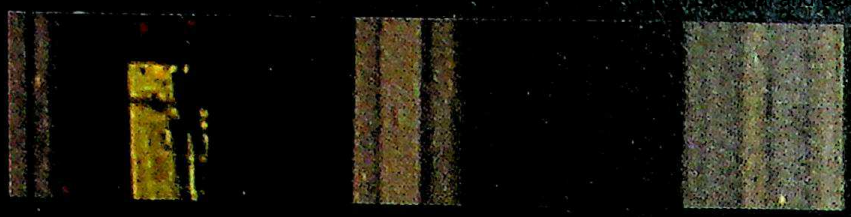
In the latter case (SONY CD-ROM drive), it could be that the drive is located at another port address. To check this, reboot under DOS, and check what drivers are installed in the CONFIG.SYS. The SLCD.SYS driver will usually have a list of parameters, one of which specifies the port address—use that port address instead of 230 as shown above.

OK, we assume that things are working. The Linux setup program lets you choose what packages to install. In most cases, follow the suggestions offered (the packages will already be marked for installation) and never uncheck a package that is marked as "required". I would strongly suggest that you also install the "JOE" text editor—this is a WordStar style editor that may be easier to use than the default "vi" or "emacs" normally used under Linux.

Once the install process starts, things will go more or less automatically, with possibly a few queries from Linux.

At the end of this installation process, Linux will ask you if you wish to install networking programs. Answer "yes" and choose the "Local Loopback" option for the moment. Though you may not be using real networking in the future, many Linux utilities require the presence of TCP/IP code to function—this is installed when you do the above. In future, you can reconfigure Linux for real networking.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar



You're finishing a presentation

on Lotus Freelance Graphics,

printing a report on your boss' desk,

and browsing the Internet

all at the same time.

Digitized by Arya Samaj Foundation Chennai and eGangotri

Is it the espresso or OS/2 Warp Connect?

While OS/2® Warp Connect may not come ith a twist of lemon, it can do something that's thing less than extraordinary.

It will let you access multiple servers on ltiple networks at the same time, wherever u might happen to be.

Just make one phone call and enter your sword. That's all kes to connect Internet, NT,® NIX,® NetWare,® Windows® for Workgroup and servers. And that's all it takes to share drives printers, graphics files and databases. Even ications. It's amazing, really.

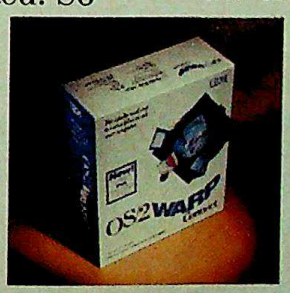
And because there are separate memory ress spaces built in, it's crash-protected. So oblem with one program won't crash rything you're running.

With OS/2 Warp Connect, you can ate Person to Person™ connections up to eight people, whether they're four floors away or four time zones. So you can conference by video. Collaborate by chalkboard. Communicate.

And you can do it all with the speed and reliability of OS/2, the software that readers of *InfoWorld* voted Product of the Year for three consecutive years. If you're looking for network connectivity, compatibility and true multitasking, you should remember one important thing: It's not only where the working world is headed, it's where it is right now.

Can your software do this?

To find out how OS/2 Warp Connect can help your business, call us at 91-80-5262355, ext. 2173. Or visit our web site at http://www.austin.ibm.com/pspinfo/os2.html. You'll find it quite stimulating.



IBM®

Solutions for a small planet™

Ogilvy & Mather 4972

Information Systems Limited: Bangalore Tel: 5269299. Fax: 5263728. Bombay Tel: 2180578. Fax: 2180582. Calcutta Tel: 2426358. Fax: 2426410. Madras Tel: 8269280. 372. New Delhi Tel: 3327492. Fax: 3326693. For education on IBM Desktop software, contact your nearest Aptech Centre.
Person-Plan is located at http://www.ibm.com IBM and OS/2 are registered trademarks and Person to Person, Solutions for a small planet and the OS/2 logo are trademarks of International Business Machines Corporation. All other company names are trademarks and registered trademarks of their respective companies. © 1995 IBM Corporation. All rights reserved.

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Linux—An Experiment Gone Right

Linux began as a student's experiment, but has become immensely popular with users and developers

```
From: torvalds@klaava.Helsinki.FI
(Linus Benedict Torvalds)
Newsgroups: comp.os.minix
Subject: Gcc-1.40 and a posix-question
Message-ID: <1991Jul3.100050.9886@-
klaava.Helsinki.FI>
Date: 3 Jul 91 10:00:50 GMT

Hello Netlanders

Due to a project I'm working on (in
minix), I'm interested in the posix
standard definition. Could some
body please point me to a (preferably)
machine-readable format of the
latest posix rules? Ftp-sites would be
nice.
```

The message shown above, posted on the Internet on July 3 1991, seems innocuous enough. A straightforward request for information by someone working on a project.

No one could know then that this little message would be the beginning of a project that would soon involve thousands and thousands of programmers and users all over the world in the development of a 32-bit Unix-style operating system that would later become known as Linux.

The Experiment

Linus Torvalds, a student in the Netherlands, was experimenting with a Unix kernel based on Minix—another Unix-clone written by Andrew Tannenbaum. All Linus wanted to do was to rewrite Minix to produce a 80386-specific 32-bit Unix kernel—more or less for the sole reason of showing that it could be done.

One year after the above message, the operating system now known as Linux (Linus pronounces it as "Lee-nooks" but most people call it "Lie-nucks", which Linus has no objection to) was well on its way to shake the foundations of the mighty ivory towers of commercial operating systems.

Actually, Linus is only responsible for the kernel (the operating system core)—the whole operating system consists of the kernel plus a massive amount of supporting programs and utilities written by other people—but he holds the copyright to the kernel the source code.

Unlike other copyrights (which aimed at restricting distribution commercial channels only), Linus other things in mind—he wanted to remain free, and his stipulation distribution is that while you may for Linux, you must ensure that purchaser has access to the so code at all times.

This was rather startling—in Bill Gates insisting that everyone access to the source code of Win 95. But Linus managed something credible. Within months of his message, hundreds of people were ing or porting software that wo with the Linux kernel. A year later numbers swelled to thousands, today there is a new Linux user every minute.

How To Win Friends

The reason why Linux became popular was that it was open-and was supported by ca developers across the planet. User Linux never needed to fear that would be stuck with a problem—if discovered a bug and reported it could be reasonably sure that a fix complete re-write) would be av within hours (if not already). If no

Finally, Linux will ask you to reboot the machine. Press Ctrl-Alt-Del, which will cause the machine to reboot back into DOS.

The Final Boot

In order to boot your installed Linux, you need to install the program LOADLIN. This will be located in the \LINUX\ROOT directory as a ZIP file. Unzip this file in the root directory with the command PKUNZIP-d \linux\root\-lodlin*.zip, then switch to the loadlin directory that will be created.

Now comes the simple process of starting Linux from DOS. If you have EMM386 loaded in your CONFIG.SYS (which most of you will have), run the command

```
loadlinx c:\linux\vmlinuz root=c: rw
```

If Linux is installed on another drive, use that drive letter instead of "c:".

If you have not loaded EMM386 in your CONFIG.SYS, use the LOADLIN command instead of LOADLINX.

One additional parameter is required if you have a SONY CD-ROM drive—

```
loadlinx c:\linux\vmlinuz root=c: rw
cdu31a=0x230,0
```

That's it. Linux will now boot, and you will be able to log in as "root". To shut down Linux at any time, you can hit Ctrl-Alt-Del, or run the command "halt -n".

To make this process simpler in future, create a batch file called LINUX.BAT as follows:

```
@echo off
c:\dos\smartdrv /c
cd \loadlin
loadlinx c:\linux\vmlinuz root=c: rw
Immediate changes
```

Some things should be changed immediately. For example— the root password (which is currently blank). T this, type the command "passwd" logging in, and supply a password asked.

You should also add a few accounts—use the "adduser" pro for this. You can accept all offered estions as they are (with the exce of the password—you may wa change that).

Learning More

Linux is essentially UNIX-l know UNIX, you know Linux. A things differ, of course, but in ge you will find that any UNIX book pretty much describe what you w under Linux. I would suggest th pick up a book that talks about style UNIX (if not Linux itself—the now lots of books available Linux.). There are some books that

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ss to the source code allowed users ake fixes themselves. Users could add or modify programs for Linux, ut fear of retribution from the authors.

e amazing thing about Linux is almost everyone involved with the t (a recent estimate placed the ber at around one hundred thou- does the work for free—while the is copyrighted by the authors, no ents are required for the use of the are. In this age of "mercenary pro- mers", the concept is mind ing.

mercial Interest

re recently, another interesting ing awaited thing began happen- the emergence of commercial appli- ns ported to Linux. Forerunners of movement have been programs as WordPerfect, FlagShip (a Clip- ne) and many other well known ications. This meant that not only inux reached "critical mass" with sers—the commercial world was ming to recognize this as well, and eginning to service the market.

interesting angle came up just Ray Noorda left Novell Inc—Novell nsidering making Linux their ard operating platform. A work was formed that began develop- ment in this direction. Sadly, directions changed when Noorda left Novell, and the company's priorities changed. But the workgroup struck out on its own (sponsored privately by Noorda) and formed Caldera, which today is producing commercial software and desktops based on Linux—naturally complete with Novell Netware support.

Finally, one of the biggest pushes Linux has seen in the recent pass is the rapid emergence of easy Internet access. The Internet is very Unix-oriented, and one of the fastest and most convenient ways of offering services via the Internet is by setting up a Linux host connected via TCP/IP to the Internet. Since all the required software for this is included with every Linux distribution (including the one on this month's PCQ CD), users who have access to the Internet on a TCP/IP connection can instantly be up and running on the Internet.

A Complete System

Linux started off as an experiment, but today it represents a major market force that has people like Microsoft and Novell sitting up and taking notice. Never before has there been a situation where the very core of your computing—the operating system—is completely free. Never before has any operating system been as complete as Linux, either—all compilers, utilities, networking and other "accessories" that commercial operating system vendors typically charge the earth for are included with Linux.

Best of all, Linux is essentially Unix without the strings of any copyright issues from Bell Labs or any other vendor attached, which means that it fosters rapid growth and tremendous third-party support. Once you have worked with Linux, working on any other Unix system will spring very few surprises on you. And so your own market value will rise instantly once you have worked with Linux and can honestly claim to have Unix experience.

The Linux Future

What about Linus Torvalds himself? Has he been resting on his laurels? What does the future hold?

No, he hasn't. In the works currently are ports of Linux to various platforms, including Digital's Alpha systems (sponsored by Digital themselves.), MIPS systems and even the PowerPC and Macintosh. And with thousands of developers helping him, you can be sure that Linux is going to be around for a very, very long time.

Atul Chitnis

BSD-style UNIX—these may not y useful.

ux acknowledges the fact that of its users come from the DOS and hence you will find that a lot mmands are similar. For example, ad of the standard UNIX "ls" mand to check a directory listing, an use "dir". You can also read and DOS floppies with the "mdir" and er" commands. And if you do a DOS" (take a directory of the DOS ory) in Linux, you will be able to ur DOS hard disk, too.

re are tons of help files available the "man" (manual) command. mple, to find out how the "mcopy" mand works, run "man mcopy". e man pages are extremely useful, en easily represent a complete . To find out what commands vered, explore the directory hierarchy under /usr/man, where all the man pages are stored.

An excellent resource that will rapidly build up over time are the PC Quest Online and CiX BBSs (11-6221734 and 80-3341137), both of which will have Linux-specific forums by the time you read this. There you will find lots of Linux gurus hanging around, ready to answer your questions. You will be surprised how many people are already using Linux.

Reaching out

If you have a modem connected to your machine (if you didn't configure it during the installation process, run "setup" and choose to configure Linux), then here is another pleasant surprise.

Log in as root, and edit the file /usr/lib/minicom/minicom.users, and add your user-id (which you created with "adduser" earlier on) to it, followed by the word "dfl". For example, to add the user "atul" to the file, add the line

```
atul    dfl
```

Now log in as that user by pressing ALT-F2 (you have six virtual terminals available to you under the default configuration, and can access them using the ALT-Fn key, where "n" is 1-6), and log in as that user. Now run the command "minicom -m -l".....

Looks familiar? Yes! It is a complete communication program that mimics the ever-popular Telix. And to read the full manual, simply run the command "man minicom".

That's it. Fire up Minicom, and use it to call PCQO (11-6221734) or CiX (80-3341137).

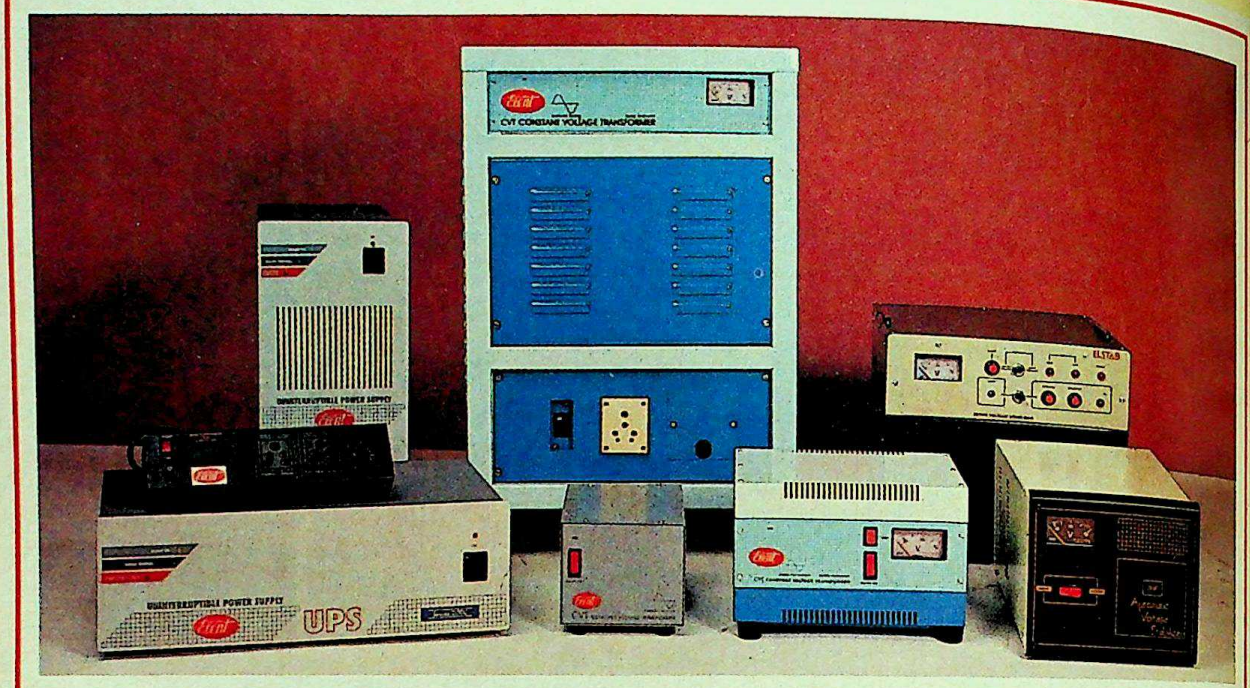
Leave a message to everyone : "Yes, I am running Linux!"

Atul Chitnis

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Preventive Maintenance



For all the Computers, Printers and other sensitive electronic equipment advertised, listed & mentioned in this issue...

Elent CVTs, UPS systems and Voltage Stabilizers - all that you need to power condition your equipment perfectly. At your nearest computer peripherals dealer. Insist on Elent because you've a right to get the best value for your money.

Elent

Electronic Enterprises

67 DSIDC Complex, Okhla Industrial Area, Phase-I, New Delhi 110020

Phones : 6818608, 6810515, Fax : 11-6818608, Grams : STABELENT

Authorized Dealers:

NORTH •Chandigarh: 702395, 704138 •Faridabad: 289367, 289902,218696 •Hissar:76930, 79416 •Karnal:252769 •Shimla: 78438,204020, 204026 •Palampur (H.P.):31059 •Jammu: 44773, 548854, 43547, 546805, 533154 •Srinagar:72528,52056 •Ambala:643122 •Amritsar: 55547[illegible] 548852 •Bhatinda:210701 •Jalandhar:227124,252975 •Ludhiana:31856,400765,475568,471402 •Patiala:71849 •Agra:52580,54760,51313 •Allahabad:609192 •Bareilly:78585, 473033, 478707, 470838 •Dehradun:28016 •Ghaziabad:717131, 714617,718612 •Gorakhpur:333598, 33[illegible] •Kanpur:319056,319916,210130,210993 •Moradabad:317769 •Muzaffarnagar:405123 •Saharanpur:3440 •Varanasi:57212,57254, 352717,352[illegible]

CENTRAL •Bhopal:555955,553030 •Gwalior:325965 •Indore:432902, 550649, 554080,494499,400455 •Jabalpur:20086, 26395 •Jhansi:44[illegible] 442207 •Raipur:535817, 533882 •Ratlam:20088, 31088 •Sagar:22234 •Satna: 3625,2097 •Ajmer:32988 •Alwar:71330 •Bhilwara:26216 •Chittorgarh: 42468, 40672 •Jaipur:366862, 369818 •Jodhpur:27958 •Kota:20952 •Udaipur :413311

EAST •Guwahati: 31250, 540845 •Jamshedpur: 428381 •Patna: 230007 •Ranchi : 205795 •Imphal: 310783 •Shillong:223949, 222847, 220[illegible] 221817 •Calcutta:298295, 297175 •Darjeeling:2040 •Siliguri:430146 •Berhampur (Orissa): 203187

WEST •Goa: 223712,228644 •Ahmedabad:6638575,460883 •Rajkot:42955 •Jalgaon: 28470 •Vadodara: 338039,341364, 557542 •Chandrapur: 32101, 32662 •Akola:40781, 28710 •Amravati:74105 •Bombay: 5554830, 5555218 •Nagpur: 526862 •Nasik:579510 •Pune:3[illegible] 346690 •Kopargaon: 23206, 22168 •Ulhasnagar: 550401, 551402

SOUTH •Belgaum:32482 •Madras: 8256893, 8277729, 458664, 453512, 512808, 5230195 •Madurai:31615, 35533 •Pondicherry:36446, 3[illegible] •Salem:448271 •Tirupur:28790, •Trichy: 48400 •Port Blair (Andaman):30873 •Hyderabad:216850 •Vijaywada:72217,77248 •Visakhapatnam:547131, 53555 •Bangalore: 5591843, 8396561,5530791,5531841 •Mangalore:458852 •Cochin:368461 •Kollam: 204317 204115 •Coimbatore:231736,232087

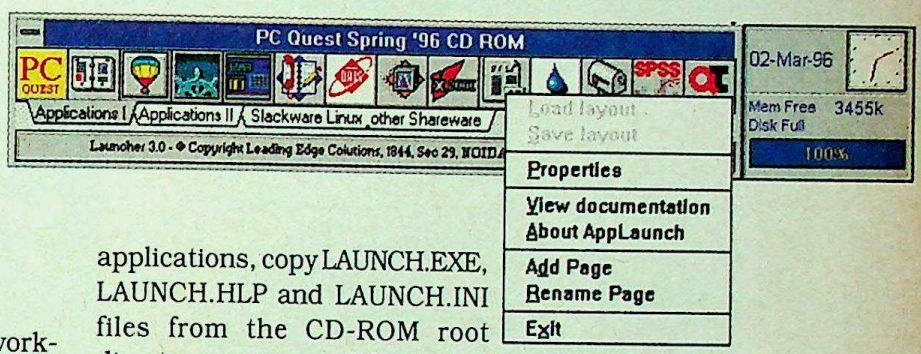
For Dealers in Delhi, please contact our Office

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The PCQ Spring 96 CD-ROM

...art from Slackware ...ux, there are working ...dels, demos, and ...areware



This CD-ROM has lots of goodies including Linux, working models, demos, fantastic offers, and share-ware..... 600 MB of it!

You can get a quick look at the CD-ROM's directory structure by clicking the PC Quest icon on the Launcher. This also gives a brief run down on what is where.

To use the software provided, you need at least a 386 with 4MB RAM, Windows 3.x or higher, mouse and a CD-ROM drive. Some of the software included, particularly the multimedia presentations require 8-16 MB and a 486 or higher to run smoothly. Several also need Video for Windows (runtime version) or Quicktime for Windows, with a sound card and speakers.

When you run the Launcher for the first time, it creates a PCQ Labs program group and creates icons for the CD-ROM Launcher and its help. To use the Launcher with your own applications, copy LAUNCH.EXE, LAUNCH.HLP and LAUNCH.INI files from the CD-ROM root directory on to your PC.

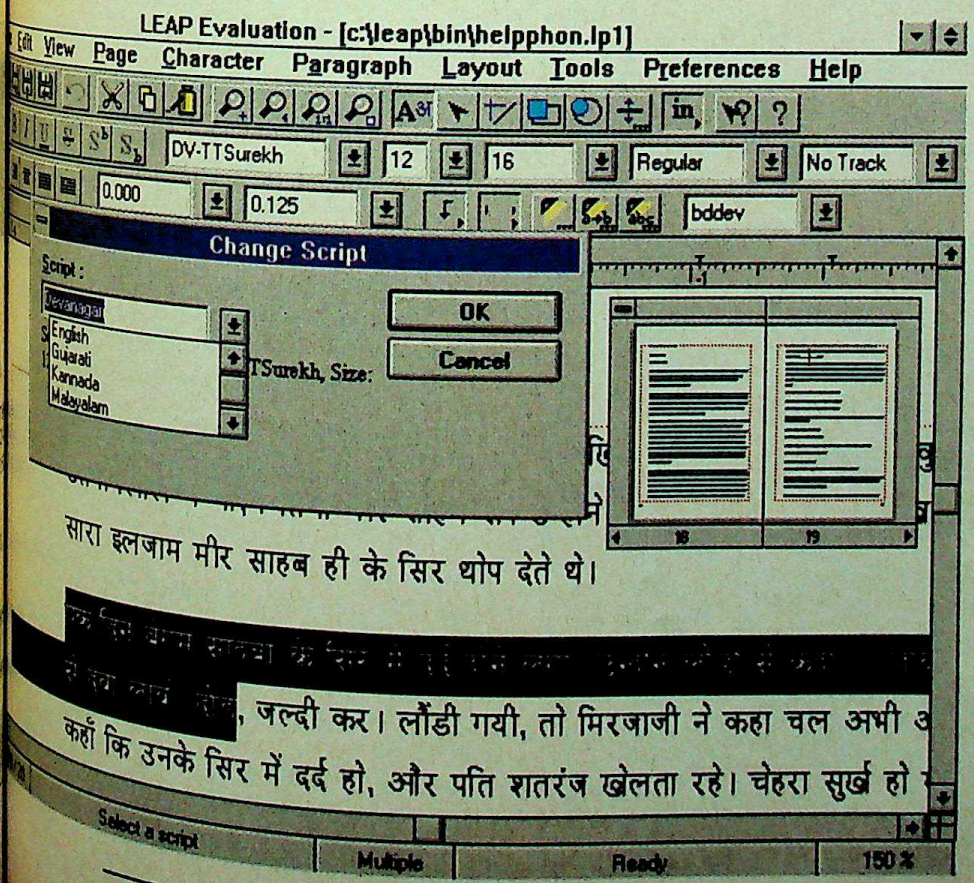
Now for a quick look at some of the software available (<drive> indicates your CD-ROM drive's letter usually D:, E:, etc.).

LEAP

This is a working model of C-DAC's word processor for Indian languages. And you can try out its various features. Also included is a presentation on multi-lingual word processing. This requires MS PowerPoint or PowerPoint viewer (available on the CD-ROM in the \K7\DEMO directory)

CorelDraw 6.0

This working model of CorelDraw requires Windows 95.



Ace 5.1

You need to install Ace and the Ace Tutorial separately. Make sure that the source is changed from A:\ACE5 to <drive>:\CORAL\ACE5.

SPSS

License code: 31663 96696 32443 43648 53452 1553

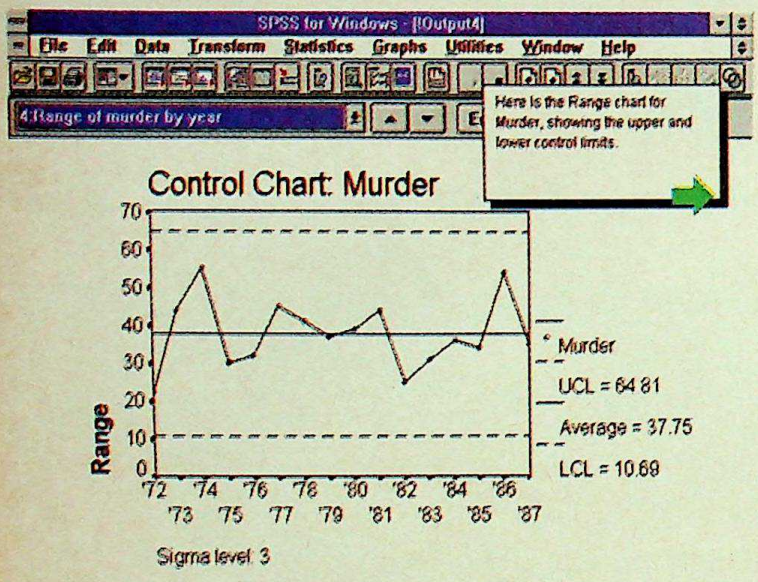
We are extending the validity of SPSS (carried in the December CD-ROM) to 31 May, 1996, with new license codes. New this time is a screensaver (SPSS.SCR) for Windows, and a presentation on SPSS.

Installing SPSS for Windows

Click the SPSS icon in the Launcher. After selecting the directory, you will see a screen asking for options to install. Now select Tutorial, Base, Professional Statistics and Tables

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



only. When the app prompts for new disks, change the disk number in the path from D1 to D2, and so on. When prompted for the Professional Statistics disk, give the path as <drive>:\SPSS\SPSS\D8, and for Tables as D9.

Disk 7 (D7) contains Win32s programmes which can be skipped if you already have a version installed. You may need to install the Win32s directly by clicking on WIN32SU.EXE in <drive>:\SPSS\SPSS\D6.

QI Analyst for Windows

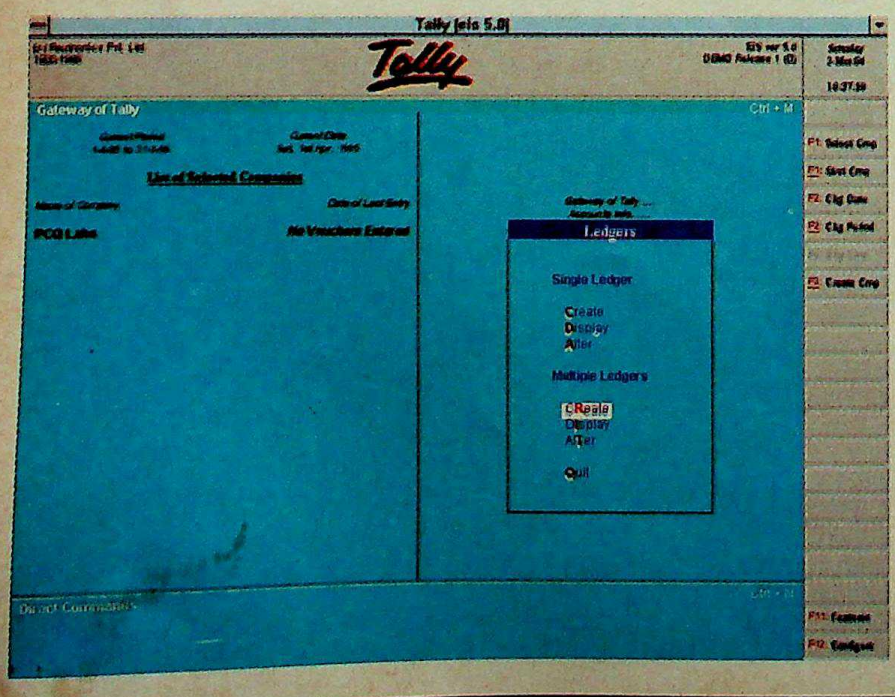
Setup ID: 00001

License code: 31794 60231 33555 28356 36282 9986

To setup QI Analyst for Windows, click its icon on the Launcher.

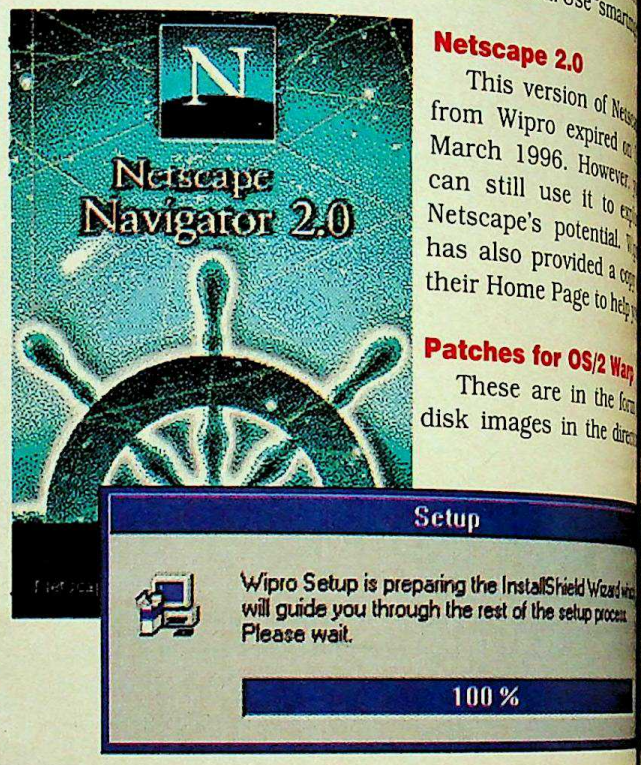
Tally 5.0

Included are working versions of Tally for Windows 3.1, Windows 95, OS/2 and the Power Mac. The Mac version is a disk image that needs to be transferred to a DOS-formatted 1.44 MB floppy, and this disk used on the Mac. There is a batch programme linked to the Launcher that copies the image for you.



Jopasana Software

These process control apps have been provided as .ZIP which need to be unzipped to your hard disk. One of the Smartmanager need both name and password. Use "smart



Netscape 2.0

This version of Netsc from Wipro expired on March 1996. However, can still use it to exp Netscape's potential. W has also provided a cop their Home Page to help

Patches for OS/2 Warp

These are in the form disk images in the direc OS2PATCH. Transfer the images to 1.44 MB floppies u LOADDSKF.EXE.

Shareware

We have lots of shareware this time. They have b categorized into DOS, Windows 3.x, Windows 95, OS/2 Internet sections. Here is a partial listing of them and wh they are .

Paintshop Pro	use Launcher
WinZip 6.0	use Launcher
McAfee Scan	use Launcher
Smartdog Antivirus	\SHAREWAR\DOS\SMARTD
CureDH2	\SHAREWAR\DOS\
Pkzip 2.04g	\SHAREWAR\DOS\
Pkzip for OS/2	\SHAREWAR\OS2\PKZIP\
List of Emoticons	\SHAREWAR\INTERNET\ EMOTICONS.TXT
Windows95 Drivers	\SHAREWAR\WIN95
Zip for Windows 95	\SHAREWAR\WIN95

And then we have Slackware Linux, which is with in detail in the Cover Story section of this is

So, that's it! Have fun.

CD-ROM produced and compiled by Krishna Kum tested by Asawari Ketkar at PCQ Labs. La developed by V

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Electronics Ltd. was launched in 1986 and in a span of years is the largest manufacturer of computer peripherals TVS Electronics has been promoted by the rous TVS group, the twelfth largest business house in ia.

Electronics has collaborations with the world's leading facturers such as Citizen, Japan, Oki, Japan and Victron Netherlands.

Electronics offers a wide variety of printers to match printing need.

Q series printers have a long head life and come with a a two year warranty. In addition to this they are virtually ess, offer a colour printing feature, and many other -the-art features.
models available in this series are Q10, Q20, Q25 and

D series represents the series of "Intelligent printers", to their self-adjusting printhead and smart paper g technology.
printers are designed to tackle high speed, high quality on a flexible range of paper sizes and thicknesses g multi-part stationery. All this without sacrificing on uality.
dels available in this series are HD 5000, HD 5650, HD D 6590 and HD 6595.

MSP series printers, sleek and elegant in appearance, own for ruggedness and reliability. They form India's selling range of dot matrix printers.
dels available in this series are MSP 145 Plus, MSP MSP 240 and MSP 255.

ovo series printers, are designed to meet all your day printing requirements and more.
dels available in this series are Novo 130 and Novo

Electronics is designed to providing the highest level of rt to its customers. To deliver complete customer ction, TVS Electronics has extended the reach of its ales service facilities, both through its own regional and the network of TVS Electronics Authorised Service all over the country.

wonder then, that TVS Electronics printers were ed as the most popular of all dot matrix printers in a evaluation survey conducted recently.

nd Evaluation for Dot Matrix Printers

Total Base: 159963 units sold

Brand Name	S.O.M.
TVSE (Calligra/MSP/Novo/HD)	38.35%
Wipro Epson (LX/EX/FX/LQ/DFX)	37.49%
L&T (Samsung-SP)	11.27%
Panasonic	8.18%
Godrej	2.27%
TOTAL	97.55%

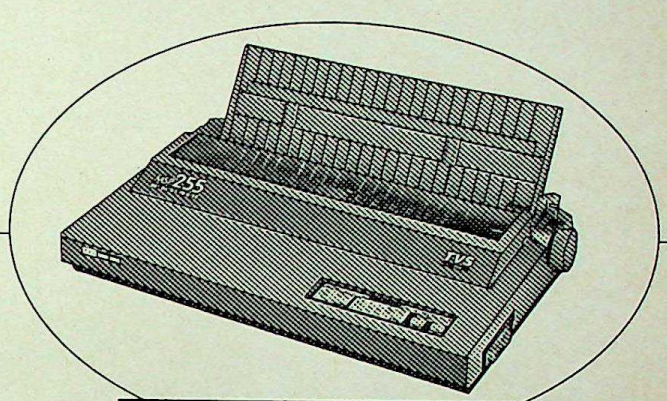
Computer World - December, 95.

ectronics has left an indelible impression, not just the they print on, but also on the user community at large.

Introducing

MSP 255

THE MAHAPRINTER



9 wire, 132 col., 300 cps.

Designed in India
- World class features.

*

New addition to the MSP series
- India's largest selling range of dot matrix printers.

*

Extra long print head life
- 200 million characters.

*

Microline feed
- For fine adjustment of paper position.

*

3 programmable macros
- For easy printer configuration.

*

High performance – price ratio
- Best value for money 300 cps printer.

For further information, contact:
TVS ELECTRONICS LTD., 10-B, I Phase,
P. O. No. 5805, Peenya, Bangalore 560 058.
Tel.: 839 5000. Fax: 839 6334.

TVS ELECTRONICS
The No.1 in printers

Available in select markets.

For further information, call TVS Electronics, **Ahmedabad:** 7411227/7478619. **Bangalore:** 2261723/2261713. **Bombay:** 6247350/6247364. **Calcutta:** 262137/268355. **Delhi:** 6212576/6212577/6212578. **Madras:** 6412422/6412650. **Pune:** 332856/369346. **Secunderabad:** 847244.

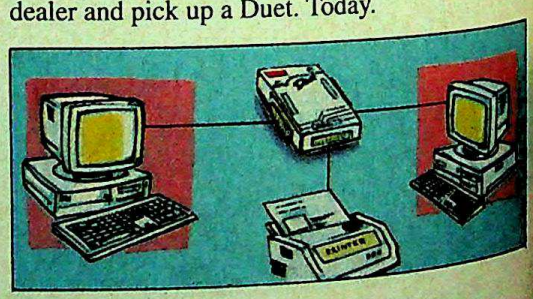
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

GUESS WHAT THE COMPUTERS SAID TO THE PRINTER ?
LET'S DUET

Duet is the first world class auto data switch designed and manufactured in India. All Duets come to you with a **I Year Unconditional Warranty** and are guaranteed to work on all the latest software and hardware. The Duet is also the only data switch which can support connections upto a distance of 10 metres.

Duet helps you save money and time because it is the best way for two computers to share a single printer – automatically. There is no external power supply and a special circuit prevents locking if one PC is off.

Finally Duet is brought to you by San Telequip, one of the most respected names in networking, reputed for their technical expertise and quality products. Visit your nearest dealer and pick up a Duet. Today.



SAN TELEQUIP
PRIVATE LIMITED

F-7, Paresh Industrial Complex, 45/2, Shankarsheth Road, Pune-37, (MAHARASHTRA) Tel : (0212) 655970, Fax : 642096.

AUTHORISED DEALERS • **Ahmedabad:** Kone. Tel. 466895, 425691 • **Aurangabad:** Mainframe Computers. Tel. 333120, 333171. • **Bombay:** Crystaline. Tel. 5690472. Laiwani. Tel. 3821054, 3879[illegible] Electronics. Tel. 331612. • **Bangalore:** Savim Technology. Tel. 3304236. • **Bhopal:** Pearl Mktg. Tel. 588748. • **Bhubhaneshwar:** Oricom Systems. Tel. 400343. • **Calcutta:** Eastern Computel. Tel 27274[illegible] Skope. Tel. 6421039. • **Hyderabad:** Forward Technologies. Tel. 850601. Computer Den. Tel. 813303. Mohan Mktg. Tel. 849929. • **Indore:** New Computer. Tel. 532362. Master Computer. Tel. 43197[illegible] Growth. Tel. 311506. Bits & Bytes. Tel. 366862. • **Kolhapur:** Protech. Tel. 620883. • **Madras:** National Instruments. Tel. 844090. • **Nagpur:** Impact. Tel. 538806. • **Nashik:** Digilog. Tel. 57[illegible] 443658. Insat Lynx. Tel. 451221, 451521. Pune Computers. Tel. 323670. Prithvi Computers. Tel. 455259. • **Sangli:** Karan Computers. Tel. 76348.

DEALER/OEM ENQUIRIES WELCOME

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

hareware napshots

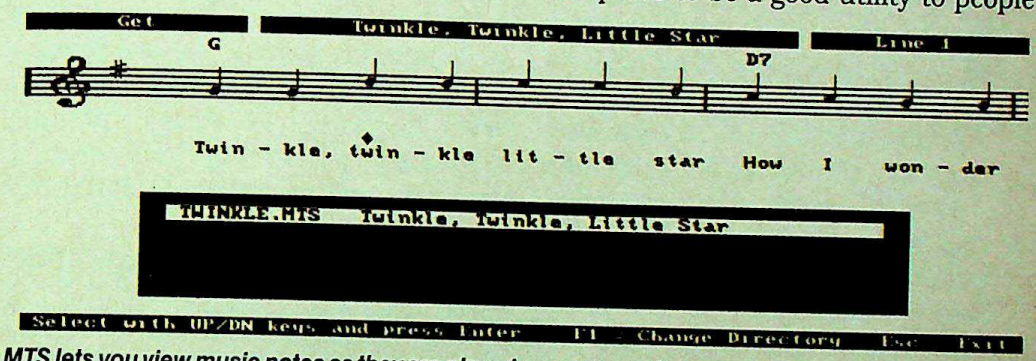
Products from PCQ's March 1996 CD-ROM

sic Transcription System II

S is a small, nifty utility that you to play, sing and practice on your PC with just an in-built r, a real boon for people who do ess a multimedia PC. Sound on 's small internal speaker can e as good as the real thing, but anages to achieve quite a bit with ager resources provided— ed especially for music with t covers the full vocal range from hrough Soprano and displays on any of five different musical dditionally, the program also s a MIDI interface and a MIDI d.

program also allows you to "see" tes being played. Additionally, lso have the ability to create your gs with up to 550 notes. MTS run even on an XT. Though it ot be the best thing you can in today's multimedia world, its mance with just a PC speaker is dable.

NB



MTS lets you view music notes as they are played on your speaker.

promises to support a variety of output devices like the internal Sound Blaster, Sound Blaster Pro (stereo), Sound Blaster 16 ASP, Adlib, Stereo In One, or one or two Digital-to-Analog Converters (DAC) connected to LPT1 and LPT2. The circuit for designing a DAC is included in the documentation and this can prove to be a good utility to people who want something better than an internal speaker but don't want to go in for a full-fledged sound card.

VP scrolls its screen when the mouse reaches either the bottom of the screen or the top. The package needs at least a VGA display and a mouse to run, and the documentation gives useful hints on the various options to disable if you want to run it on a slow system.

Three psychedelic lights, red for bass, green for middle frequencies and yellow for the high frequencies are also provided. They can be "zoomed".

NB

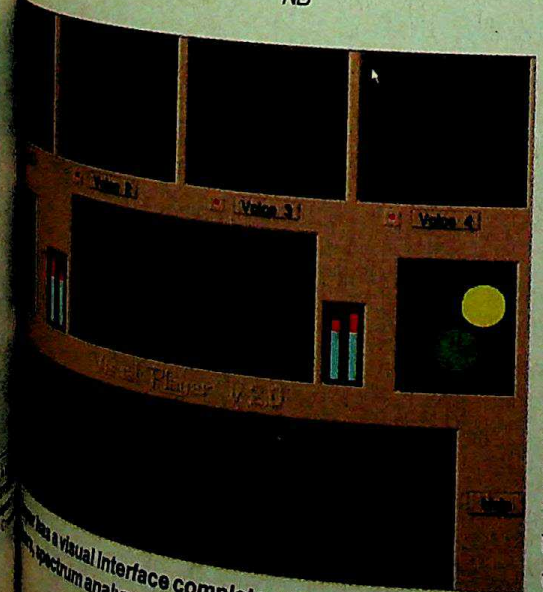
MUSIC TRANSCRIPTION SYSTEM II

SUMMARY: The package's low hardware requirements makes it a good starting point.

PRICE: Basic registration: $16; full registration: $25; (Plus Rs 299 as packaging charges if acquired from Data Bank Systems).

DEVELOPER: Questar Products Ltd, 1252 Westover Trace, Acworth, GA 30101.

AVAILABLE FROM: PCQ March 96 CD ROM;PCQ Online (11-6221734) as "MUSICTRN.ZIP" and from Data Bank Systems, 21, II Floor, III Street, Gopalapuram, Madras 86. Tel: 44-8240364, Fax: 44-4821897.



has a visual interface complete with psychedelic lights, spectrum analyzer and more.

Visual Player 2.0

Visual Player is a MOD player, and as the name suggests, it displays the waveform of the four voices of the MOD, the final waveform, four real volume bars, a real-time spectrum analyzer and psychedelic lights. The product once registered

VISUAL PLAYER 2.0

SUMMARY: A well designed and implemented MOD player. Adds graphics to sound. Has a point and click interface on Dos.

PRICE: $30 (Plus Rs 299 as packaging charges if acquired from Data Bank Systems).

DEVELOPERS: Luis Crespo and others, PO Box 93142, 08080 Barcelona, Spain.

AVAILABLE FROM: PCQ March 96 CD ROM;PCQ Online (011-6221734) as "VISPLAY.ZIP" and from Data Bank Systems, 21, IInd Floor, IIIrd Street, Gopalapuram, Madras 86. Tel: 44-8240364, Fax: 44-4821897.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WinZip 6.0

This Windows 95 upgrade makes management of archive files easy and intuitive

WINZIP 6.0

SUMMARY: A very useful [tool] managing archives under [Windows] 95.

PRICE: $29 (single-user)

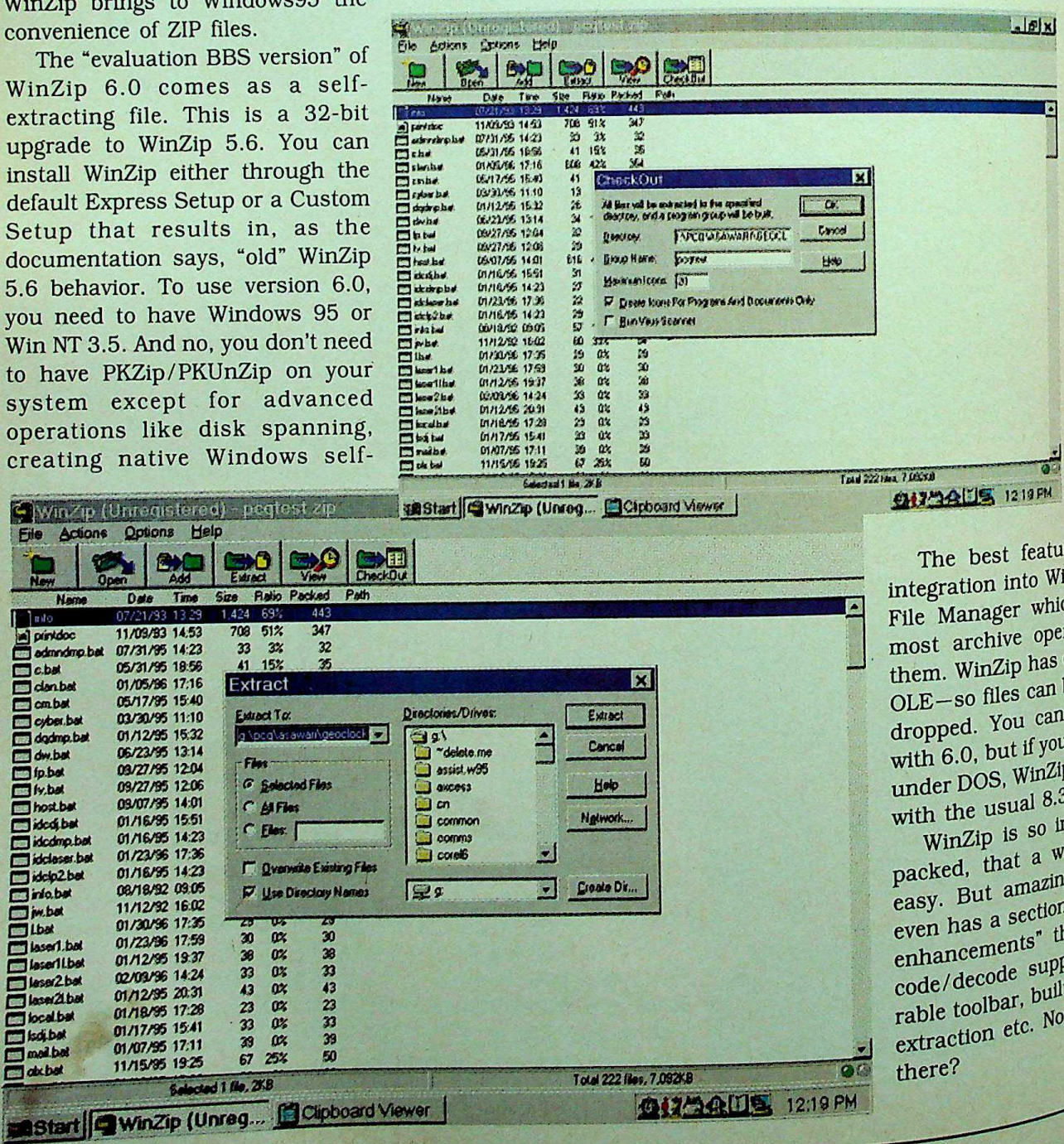
DEVELOPER: Nico Mak Comput[ing] Inc, PO Box 919, Bristol, CT 06[010]-0919

AVAILABLE FROM: PCQ Spring CD-ROM (March issue), PCQ O[ffice] (11-6221734)

Any serious computer user today can't imagine working without archive files. Day-to-day operations like backups, file transfers and storage all depend on ubiquitous little utilities — compression programs. WinZip brings to Windows95 the convenience of ZIP files.

The "evaluation BBS version" of WinZip 6.0 comes as a self-extracting file. This is a 32-bit upgrade to WinZip 5.6. You can install WinZip either through the default Express Setup or a Custom Setup that results in, as the documentation says, "old" WinZip 5.6 behavior. To use version 6.0, you need to have Windows 95 or Win NT 3.5. And no, you don't need to have PKZip/PKUnZip on your system except for advanced operations like disk spanning, creating native Windows self-extracting archives etc., because WinZip uses internal zipping and unzipping.

The interface consists of a toolbar with icons for creating, opening, updating, extracting and viewing archives, and an improved CheckOut option. The CheckOut option, introduced in version 5.5, gives you a chance to install a program that is as a ZIP file and it out. It then tes any new icons, program groups created even restores red INI files. Version 6.0 has added virus feature that your files unzipping. The interface has two buttons the lower right the red button ows when is busy, while green one when it's [idle].



The best feature of WinZip is its integration into Windows Explorer and File Manager which lets you perform most archive operations from within them. WinZip has complete support for OLE—so files can be just dragged and dropped. You can use long filenames with 6.0, but if you plan to use files under DOS, WinZip advises you to stick with the usual 8.3 format.

WinZip is so intuitive and well-packed, that a wishlist doesn't seem easy. But amazingly, the help file even has a section on "Ideas for enhancements" that includes UU-code/decode support, a user-configurable toolbar, built-in ARJ and LZH extraction etc. Not much left to add there?

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE JAPANESE POWER THAT'S VALUE FOR MONEY

GSP RESIDENT

G S.JAPAN STORAGE BATTERY SHIFTED THEIR PLANT TO TAIWAN BRINGING DOWN THE COST, MAINTAINING STRICT JAPANESE CONTROL.

ISO 9002

BASE

BASE CORPORATION LTD

810 BARTON CENTRE, M G ROAD, BANGALORE 560 001
TEL : (91-80) 5586502/5587633 FAX : 5587181

NEW DELHI
011-643516
FAX 6477434

HYDERABAD
040-7711526
FAX : 7710603

BOMBAY
022-3892130
FAX : 3891998

MADRAS
044-8267764
FAX : 8257207

PUNE
0212-363322
FAX : 363323

CHANDIGARH
0172-42206
FAX : 540400

COLOUR GRAPHIC 7536299

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

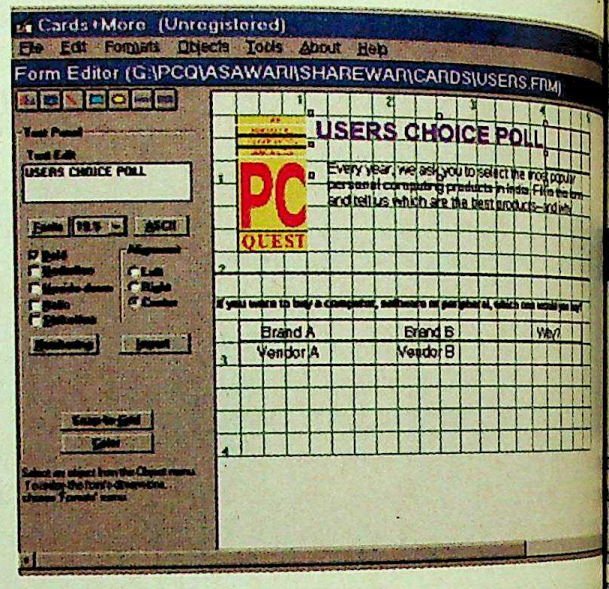
Digitized by Arya Samaj Foundation Chennai and eGangotri

Cards+More v 2.30

A Windows-based shareware for creating visiting cards, labels, forms, letters and more

If you believe that your business card reflects your personality, then check out Cards+More—a Windows-based shareware that lets you design and print a range of documents, from business cards and barcode labels to A4-sized form letters.

Cards+More takes up about 7.2 MB of hard disk space. The workspace is divided into two parts. On the left is a toolbar with icons for invoking text, graphics, barcodes, postnet codes, lines, boxes, ovals and other shapes. The window on the right displays the format of your document. Sizing objects in the document is made easy by the worksheet-like grid that can be enabled or disabled. The grid measurements can be in inches or centimeters. You start creating a document by selecting a format in which you specify parameters like the width and height of the document, its top and bottom margins, the number of rows and columns (for cards and labels) etc. It's easier if you select a pre-defined format available in Cards+More and then customize it. You can also store the format as a personalized template for future use.

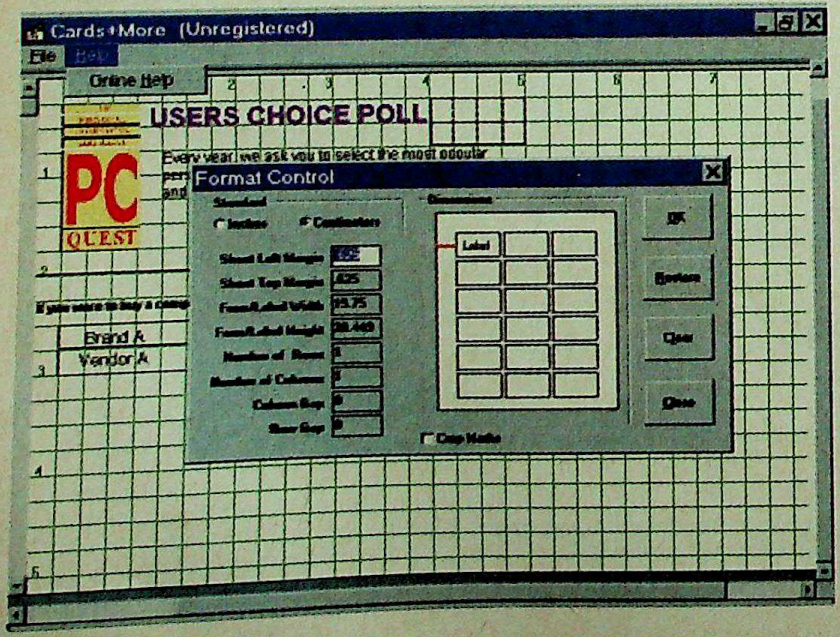


Your document can contain text and graphics, and even barcodes and postnet codes (though not really useful in India). Objects can be placed on the worksheet by clicking on the toolbar icons or pressing the specific hot keys.

You can also customize colors.

It supports ten different graphics file formats including the more common TIFF, JPEG, BMP and GIF. Any graphic imported into your document can be resized—and a reproportion button in the graphics panel prevents the graphic from getting skewed. A separate rotate button lets you rotate raster images by ninety degrees each time. The Mail Merge option lets you create form letters. You can import text either from a text file or create in the accompanying Mail Merge e There's also an auto numbering o If you need to include special cha such as copyright symbols in document, you can use Cards+ ANSI character set.

Cards+More is easy and in and context sensitive online h available if you get into trouble wishlist for the shareware inclu undo button—a must when a and resizing images etc. A pro option for displaying the num type of objects contained in document would also help.



CARDS+MORE V 2.30

SUMMARY: A useful utility creating visiting cards, and stationery items.

PRICE: $29 (Registration fee)

DEVELOPER: Informatik Inc, PO 868, Devon, Pensylvannia USA

AVAILABLE FROM: PCQ Spring CD-ROM (March issue), PCQ O (11-6221734)

composing full-page A4- sized ments, a page preview or zoom lity would make it easier to de layout.

Cards+More is easy to u feature-packed. Great for de business card prototypes and

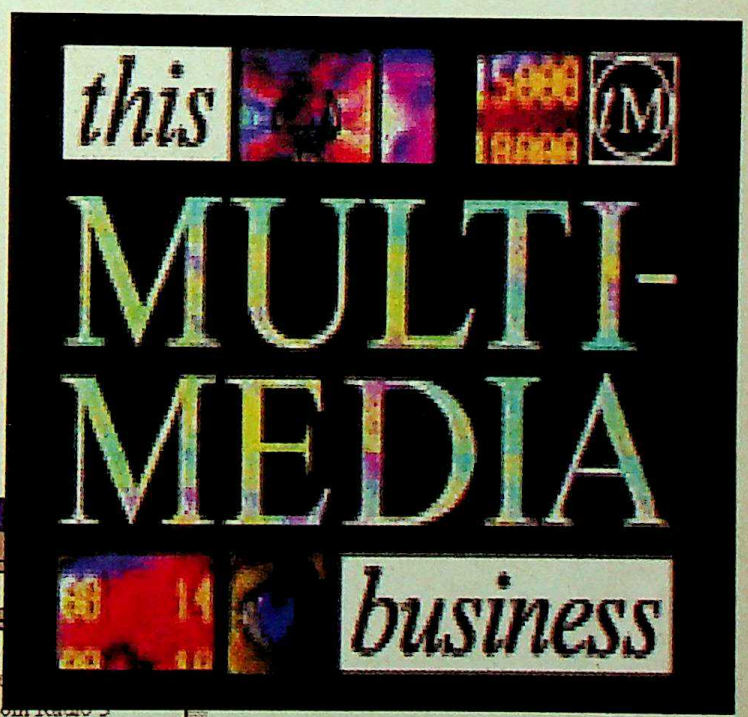
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

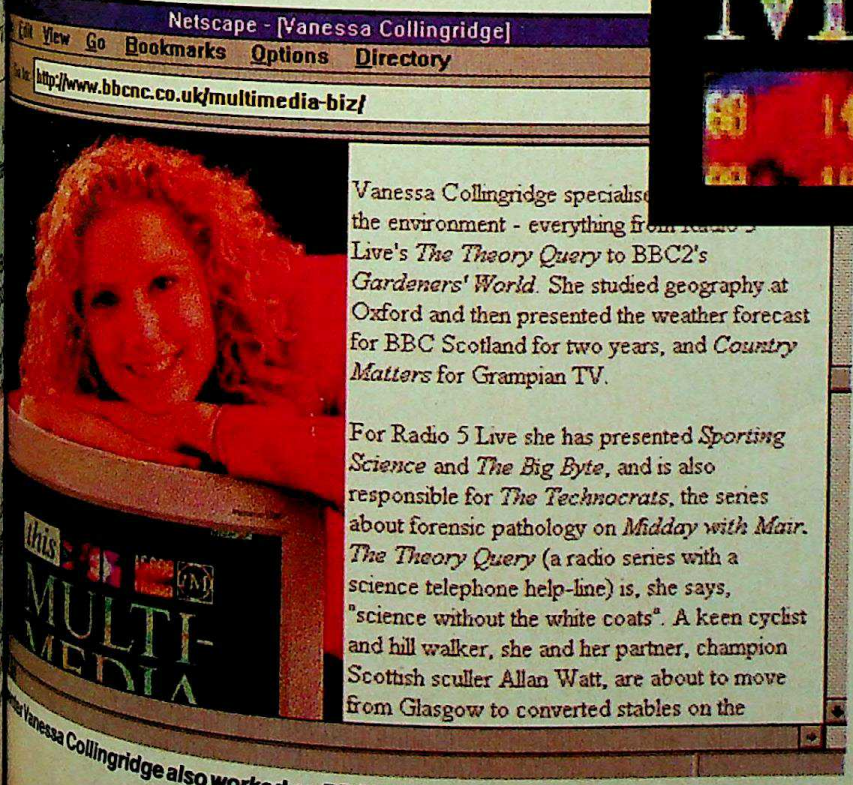
Digitized by Arya Samaj Foundation Chennai and eGangotri

This Multimedia Business

BBC presents the big picture for small businesses in a series of programs on multimedia, and the Internet

The world of graphics and sound, animation, video and hypertext is very quickly making its way into our lives, becoming accessible and affordable to an increasing number of people. In particular, small businesses are beginning to use multimedia in cleverer and cleverer ways, letting new technology help them compete with large multinational companies. Besides, multimedia is fun! A recent television series on BBC World presented the big picture for small businesses.





Vanessa Collingridge also worked on BBC's Big Byte

The series was presented by science specialist, Vanessa Collingridge, and if you missed it on television, you can still catch it on its very own web pages at http://www.bbcnc.co.uk/multimeida-biz. Hendrik Ball of the **This Multimedia Business** team says he is frankly amazed at the world-wide response he has had to this programme, with E-mail on the Internet making it so easy for people to write in. The Internet in fact, with all its multimedia possibilities and implications for businesses, formed a large chunk of this programme.

Quite apart from the programme itself, an interesting fact is that it was made on a set that wasn't really there! It made history with the first virtual reality set in which an actor or presenter can actually walk around, and the camera can follow them by tilting, panning and zooming. Until now no

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

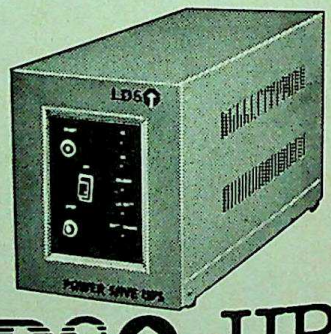
camera movement was possible within a virtual studio. You can see these sets and meet the Multimedia Business team at the web site. Most of the text and the information researched during the making of the programme is also on this site, all arranged in a Multimedia Menu featuring multimedia in general, graphics, pictures, desk top publishing, sound, video, CD-ROMs, presentations, the Internet, and what is happening inside your computer. You can even find out what the experts said in the interviews on the programme by clicking into them. For instance, here's Professor Stephen Heppel, commenting on the sort of thing multimedia could do for businesses where it is relevant, "...if I go out and buy a car, I get a useless little booklet in the glove compartment that seeks to tell me about all the features the car has got. I haven't begun to try out half the features that the car had by the time I go to sell the thing. If I had a little multimedia package that ran on my PC that helped me come to terms with the features of my new product, I'd be a better informed customer, I'd be more satisfied, and probably a bit more inclined to come back. So everybody gains."

This Multimedia Business was an appetizing glimpse into the possibilities - and the difficulties. Each episode took up case studies of small companies having a go at multimedia. A small modeling agency in Birmingham authored a CD-ROM as a portable portfolio of their models—an excellent way of advertising in a competitive market. An estate agent created a property dating agency on the Internet, allowing people to go virtual house hunting and fitting the right person to the right house. The editors of a magazine armed them... with a Power PC, a scanner ... right software, and found they ... able to put together a magazine ... an entire production team. There ... problems too... things can go ... and often do, multimedia takes ... understand and use, it can be ... sive initially and you have to take ... moving into multimedia doesn't ... moving into the red. You need to ... upgrading systems and software ... making sure you keep abreast of ... developments in multimedia tech... ogy. But in most of the cases taken ... multimedia made a big difference ... way things worked, eventually ... time and money and unleashing ... new ideas. The programme web ... also feature these case studies. ... are also links to multimedia and ... related information.

Maia Bha...
maia@gate...

IT TOOK HIM HOURS TO FEED THE MATTER INTO HIS COMPUTER.

IT TOOK LESS THAN A SECOND FOR THE TOTAL DESTRUCTION



LDS-UPS

● OFF Line UPS system in corporating state of the art PWM technology. ●True On Line UPS system using latest MOSFET technology ● FAX UPS with active On line P&T inter face ● DOMESTIC inverters ● SERVO VOLTAGE STABILIZER

LINEAR & DIGITAL SYSTEMS PVT. LTD.
C-202/1, Mayapuri, Phase-II, New Delhi -64
Tel : 011-5400406, Fax : (91) 11-5454617

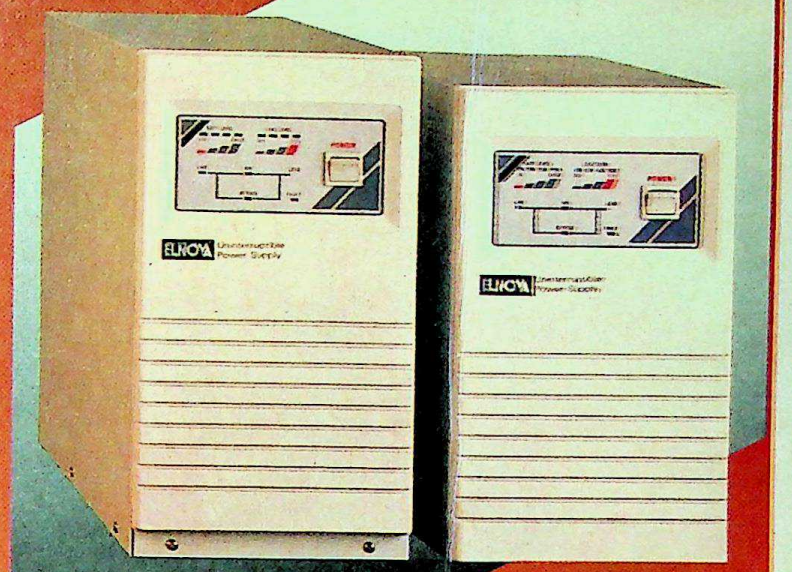
AUTHORISED DEALER : AMRITSAR : 225043, 52012, DELHI : 3272624, 3282724, 534308, 501044 GURGAON : 331342 CHANDIGARH: 693516 LUCKNOW : 249982, 52116 52838, BARODA : 324542

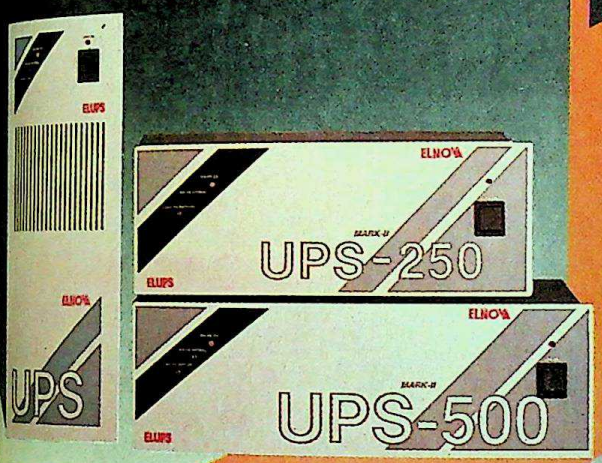
DEALERS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Elnova is the most preferred* UPS in India.





That's the verdict of the Computer Users from all over India. And we fully endorse them.

After all, we've been making UPS and allied equipment for over 25 years. And are one of the largest-sold# UPS brands in India.

Our UPS have stood the test of time. And Quality.

That's because Elnova UPS are specially created for Indian environment and to work under typical Indian power conditions.

Whenever you require a UPS, do what the intelligent users are doing: get an Elnova UPS.

*Rated at Top
User Perception Survey, 1994 PC Quest
Rated at Top Again
User Perception Survey, 1995
Report in PC Quest, September '95 Issue

#1113 units sold during
Nov. '94 - Oct '95

ELNOVA

ELNOVA LIMITED

B-165, Okhla Inustrial Area, Phase I, New Delhi 110 020
Tel.: 6810172, 6810569 Fax: 91-11-6811667

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Chennai and eGangotri

Ah, isn't the information age just wonderful?

© 1995 Novell, Inc. All rights reserved.

Digitized by Arya Samaj

In Dante's *Inferno*, the damned in the seventh circle of Hell must stand neck deep in boiling lava. Not that things are quite that bad in today's business world. At least *you* can get GroupWise™—the groupware solution from Novell®. Its Universal In Box helps you control the flood of information by letting you see and manage E-mail, appointments, faxes, even voice mail—all from one place. And with GroupWise you have the option of using a laptop, phone, or pager to retrieve your messages no matter where on earth (or in Hell) you are. So follow the lead of over 5 million users who are already being kept in the loop, and out of limbo. — *To learn how other companies are staying on top, check out http://www.novell.com on the Internet, or call us right away.*

GroupWise™

Novell

ONWARD NOVELL
NOVELL IS NOVELL INDIA

Onward Novell Software (I) Ltd., Marwah Bhavan, Saki Vihar Road, Saki Naka, Andheri (East), Bombay 400 072. Tel: 8351995/8360715. Fax: (91-22) 821 4203.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INDIA Internet

Indian sites on the

Indolink

http://www.genius.net/indolink/index.htm

Indolink is an online zine the pages of which everything from horoscop recipes, matrimonials to and health tips, reviews books and lyrics of songs etry, information on travel zes, mail order gifts, and directory of services. You house-hunting for real es India, shop for Indian foods yourself a religious advis get special discounts at restaurants abroad. There formation here for NRIs, talk, a law forum, weekly ness news from India, and mor.

Web India

http:// www.webindia.com

Web India, maintained Inc in Illinois, USA, is a bus information page. You can s Web India or look throug Indian or International bus directories and Indian se directory. These feature se abroad related to arts and sic, banking, general mer dise, travel, restaurants, the US, matrimonial ads elry, and even Indian gro Web India also offers adve services.

Web India is also ru 1996 Indian Elections (http://elections.web com/). There are some India related web sites, ing one to the State Bo India.

The Jews Of Cochin

http://www.kashrus.org/cochin.htm

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...NGLY ENOUGH,
...U WOULDN'T
...E BUYING THEM
...Y BECAUSE THEY
...OOK GOOD.

your eye, you might also like to consider a few facts.

To begin with, how about auto sizing, flicker free, high resolution, auto power saving, anti glare screen.

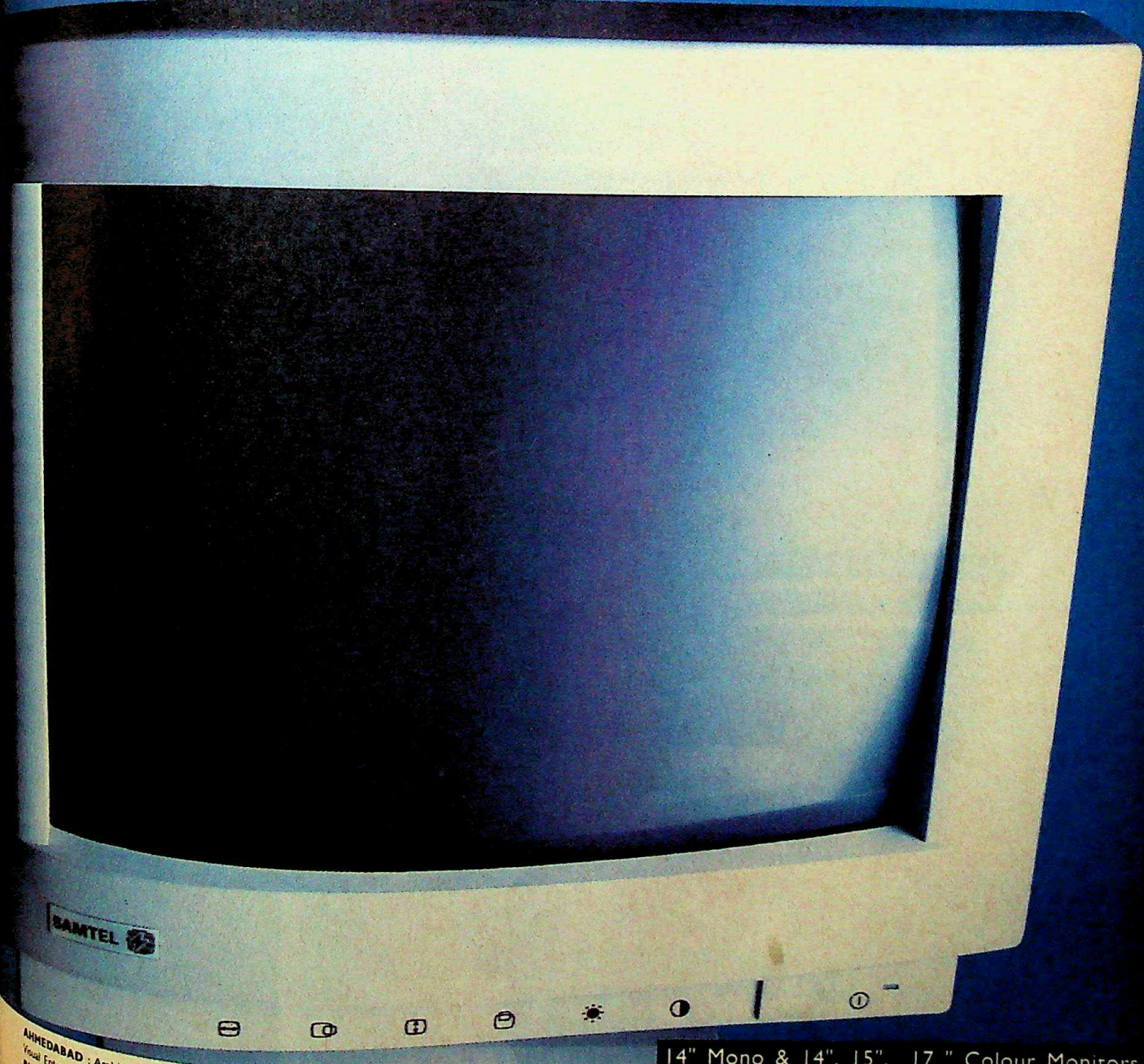
Followed by the largest state-of-the-art manufacturing unit (20,000 ... procedures as per IEC standards, and a wide network of service centres.

And lastly, the assurance of UL, CSA approved components for long lasting performance and the Samtel name, you'll agree there's more to us than what meets the eye.

SAMTEL
MONITORS

A LOT MORE, THAN JUST ANOTHER MONITOR

CHANCES ARE YOU'VE NEVER SEEN MONITORS LIKE THESE EVER BEFORE.



14" Mono & 14", 15", 17" Colour Monitors.

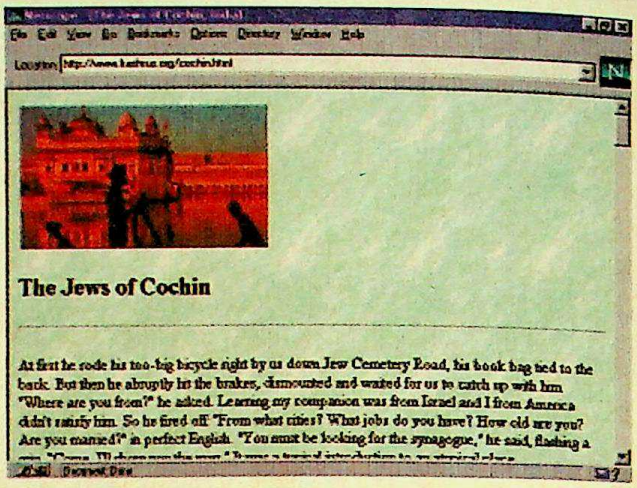
AHMEDABAD : Ambirnat Infotech. Tel. : 5500743/5501989. Fax : 5505868. Byte Interface Pvt. Ltd. Tel. : 7452041/42/43. Fax : 743315. Skyline Marketing. Tel. : 5500022. Fracil Enterprise. Tel. : 468455. **BANGALORE** : Ansata Computers. Tel. : 5465144/5465844. Fax : 5479494. **BARODA** : Pidi Byte. Tel. : 324918/324968. Fax : 335951. **BHOPAL** : Mid Land Corp. Tel. : 555217. **BOMBAY** : Ashtech. Tel. : 4963311/6. Fax : 4950429. Ascom. Tel. : 3869402/3. Fax : 3877048. Excel. Tel. : 20627555/6. Fax : 2092427. Systematics. Tel.: 4073300. Fax : 4099500. The Mediaman. Tel. : 3877418. Fax : 3874418. **CALCUTTA** : Pecondata Services Pvt. Ltd. Tel. : 2484809. Fax 2486444. **INDORE** : Magnum Computers. Tel. : 536003/432504. **JAIPUR** : Jumbo Electronics. Tel. : 315307. The Superiors. Tel. : 563562. **KANPUR** : Aryan Computers. Tel. : 214039. Fax : 294071. Techno Serva. Tel. : 255084. **LUCKNOW** : Computer Sales Agency. Tel. : 23+195/ 270010.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

'At first he rode his too-big bicycle right by us down Jew Cemetery Road, his book bag tied to the back. But then he abruptly hit the brakes, dismounted and waited for us to catch up with him. "Where are you from?" he asked...'

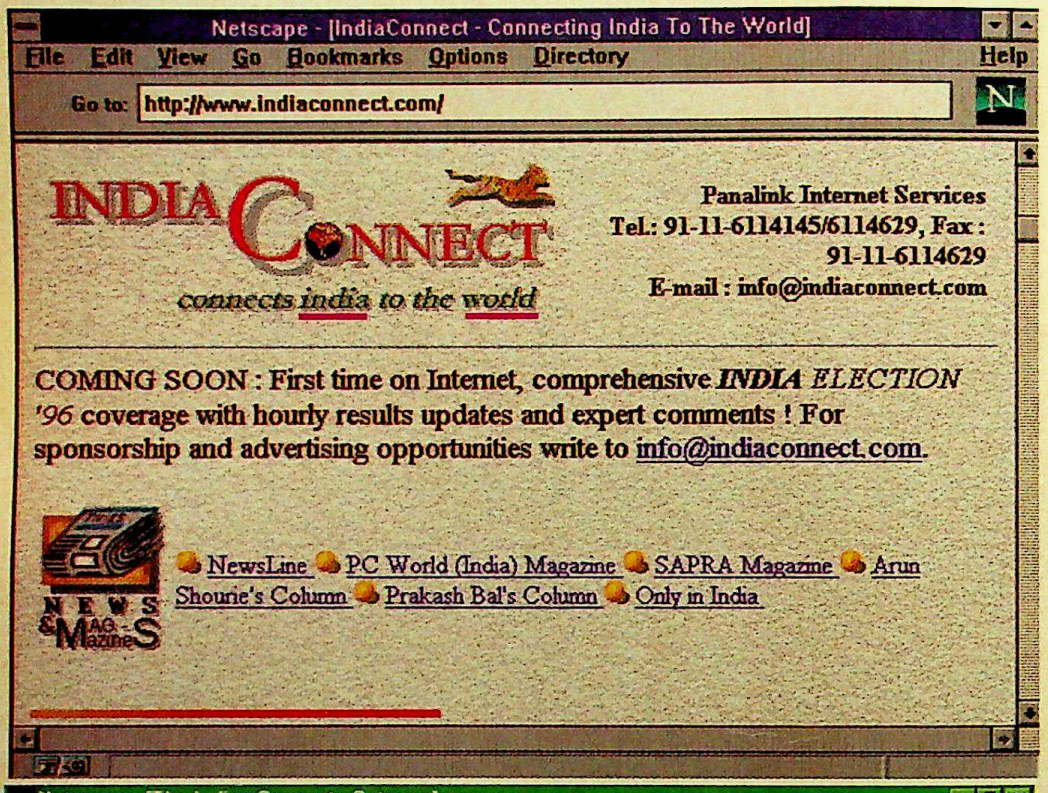
This site relates the story of the **Jews in Cochin**, and is hosted by the Asian American Kashrus. Also described here are the sights and places particular to the Jews. There are recommended readings on the subject.



India Connect

http://www.indiaconnect.

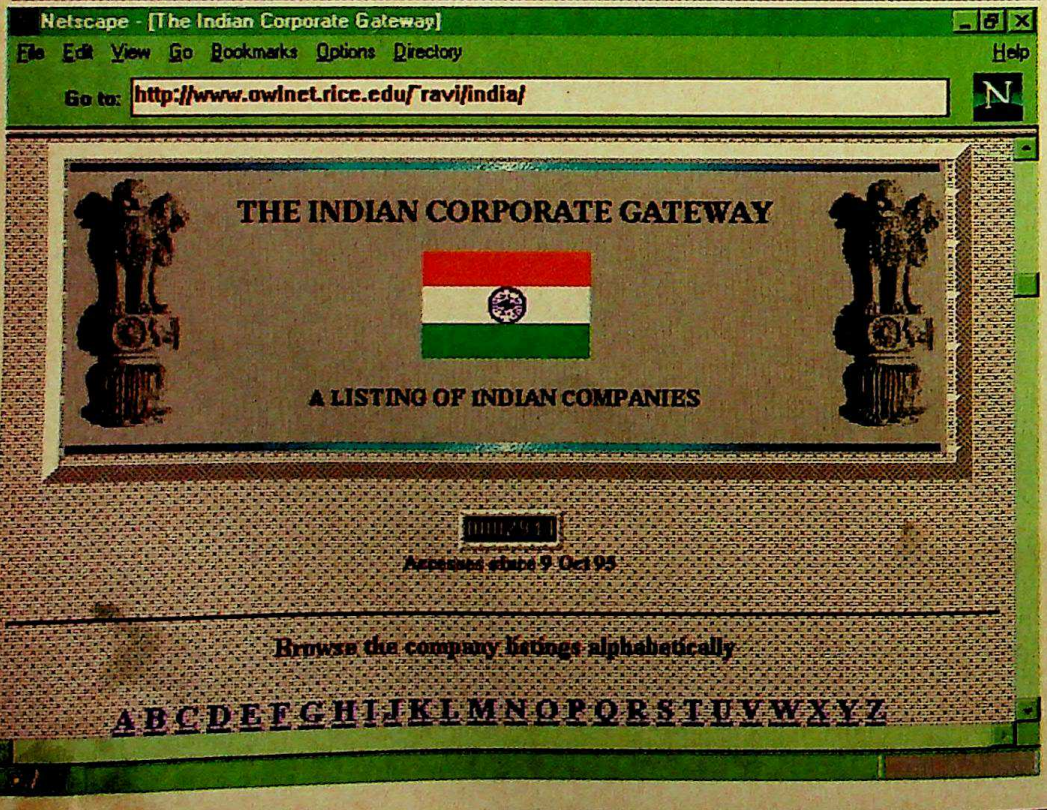
Scan the headlines India's leading newspa India Connect. Produ articles from Sarpa m and some well known nists are featured at th There's business news mation and yellow page ics from Hindi film song and book reviews and mation on travel. 'Only dia' has snippets from zines, and 'Red Hot' spo a news item.



Indian Corporate Gateway

http://www.owlnet.rice.edu/~ravi/india/index.html

The Indian Corporate Gatewa an alphabetical listing of Indian panies and their addresses. The over a thousand companies at th ment and some educational ins tions and government organizatio well. As more Indian compani online, the site plans to have links to them.



Connect Magazine

http://www.connectmag.com/connect

Connect was among India's magazines to go online. Here, you browse the online edition, the

Collector's Issue, and samp entertainment. The Connect site Indian opinions on an interna entertainment culture including lywood movies, music, satellite sion, books and fashion. You interviews with Richard Marx, Anderson, Bally Sagoo, Monika Alessandra, Joel Schumacher ied mix of people in the music entertainment business. Also, observations on 'Zoo TV' and Fashion.

There are some links here entertainment sites with an Indi vor.

Mala Bhargava <mala@pobox.com> based freelance writer and an multimedia reviewer for

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...TUNATELY,
...E CAN'T SAY
THE SAME
...T THE PRICE.

monitor offers, price becomes secondary.
Auto sizing, flicker free, high resolution, anti glare screens, auto power saving, you name it, we got it.
And with ergonomic designs, a wide network of service centres, the assurance of UL, CSA

lasting performance, and lastly the largest state-of-the-art manufacturing unit (20,000 per month), adhering to quality procedures as per IEC standards, a Samtel monitor surely offers a lot more than what money can buy.

SAMTEL
MONITORS

A LOT MORE, THAN JUST ANOTHER MONITOR

HIGH ON PERFORMANCE. HIGH ON FEATURES. HIGH ON RELIABILITY. HIGH ON LOOKS.

14" Mono & 14", 15", 17 " Colour Monitors.

MADRAS : Microworld. Tel. : 8250987/8264004. Fax : 456595. **NAGPUR** : Aarkay Computers. Tel. : 540265. Mayur Computers. Tel. : 526862/536127. Fax : 540265. Spectron Computers. Tel. : 722971/723389. **NEW DELHI** : Champion Computers Pvt. Ltd. Tel. : 6214751/6426280. Fax : 6479669. Computer Aid India. Tel. : 2214035/2424805. Kutir Computers Ltd. Tel. : 5462341. Computer Ghar. Tel. : 8-712839/716316. **PATNA** : Graphic Merchant. Tel. : 662978. **PUNE** : Atson. Tel. : 637927. Fax : 637906. Fortune Computers. Tel. : 442530. Fax : 424164. **RANCHI** : Moon Computers. Tel. : 206269. Fax : 317240. **SECUNDERABAD** : Pacific Micro Systems. Tel. : 800470/7806099. Fax : 800470. **VARANASI** : Jwala Distributors. Tel. : 356319. Fax : 353279.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tasty Bits From The Technology Front

Netscape Navigator 2.0

Version 2.0 of Netscape Navigator was released early February on all platforms. Java support is missing from the Macintosh version. Here are two features that appear in version 2.0 that were not present in the betas, to the best of my knowledge.

Colored text: A new option on the <FONT> directive lets you set a color for any text. (Previously you could specify color only for body text, links, followed links, and active links, as well as a background color.) Example: <FONT COLOR=#FFDD99>peach</FONT> gives peach-colored text. Can you say "garish?" The first page to use both font color and <BLINK> should get a free pass to Mirsky's Worst of the Web <http://mirsky.turnpike.net/wow/>.

Multiple images and GIF animation: Netscape 2.0 can "play" multiple images from a GIF89a file. The GIF89a standard includes a provision for storing several images; Netscape exploits this little-known ability to provide animation on the cheap without Java. And Netscape has added an optional extension to the standard to allow an animation to loop indefinitely.

For Mac users, a new tool called GifBuilder lets you build multi-image GIF89a files from a collection of PICT, GIF, and/or TIFF images. GifBuilder was written by Yves Piguet <piguet@ia.epfl.ch>, author of clip2gif. Get version 0.2 from <http://iawww.epfl.ch/Staff/Yves.Piguet/clip2gif-home/GifBuilder.html>. Note however that I found it disturbingly easy to freeze my Mac by trying different combinations of GifBuilder options and feeding the resulting GIF files to Netscape 2.0 and it's certain death to exit Netscape while a looping animation runs. I don't know how stable the feature is on other platforms.

Validating The Standards Makers

The W3 Consortium owns and develops the standards that define the Web. Hosted at MIT and chaired by Tim Berners-Lee, the man who invented most of the original standards, the W3C invites corporations and organizations to sponsor and participate in its work. The consortium's membership now numbers over 80 organizations.

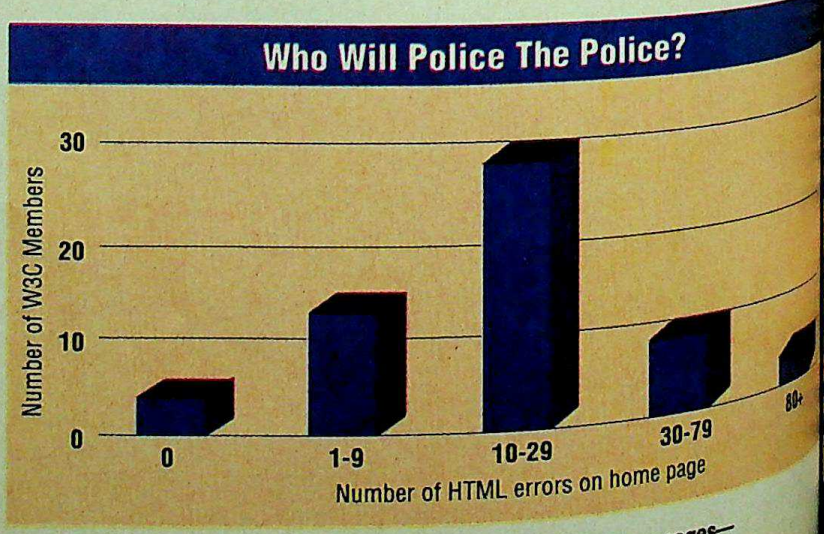
Ka-Ping Yee <kryee@math.uwaterloo.ca> tracks how well the W3C members adhere to their own standards. He applies a strict, SGML-based parser to the home page of each of the consortium's organizational members. The results are updated daily and posted at <http://math.uwaterloo.ca/~kryee/w3c.html>.

The two companies that place dead *last* on Yee's list are **Netscape and Microsoft**—their home pages, filled examples of their own attempt influence the standards pro contain respectively 139 and 154 when measured against strict standards. Only six members' pages fully comply with either 2.0 or 3.0. Here is the whole story:

The validator Yee uses, at <ugweb.cs.ualberta.ca/~gea validate/>, is called "Kinder, Ge HTML Validation." This page optio runs Weblint on a submitted <http://www.khoral.com/staff/ weblint.html>.

Java And JavaScript

Sun is developing the Java lang for use on the Web and elsew Netscape Navigator 2.0 interpret code. Separately, Netscape is devel a language called JavaScript. Nav 2.0 also interprets JavaScript platforms including Macintosh.



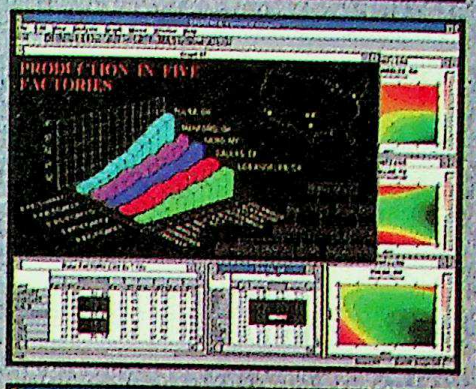
Only two W3C members have more than 138 errors on their home pages—Netscape and Microsoft

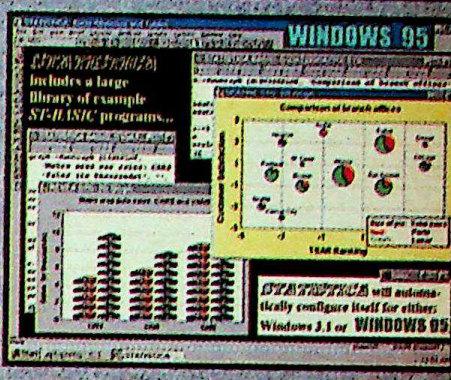
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

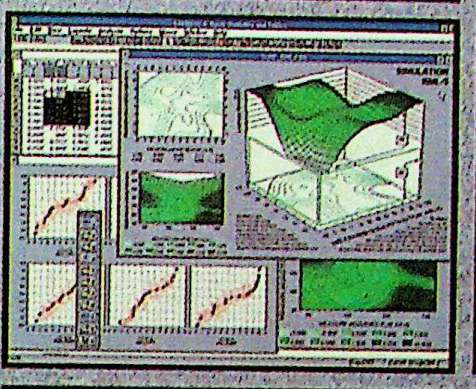
Digitized by Arya Samaj Foundation Chennai and eGangotri

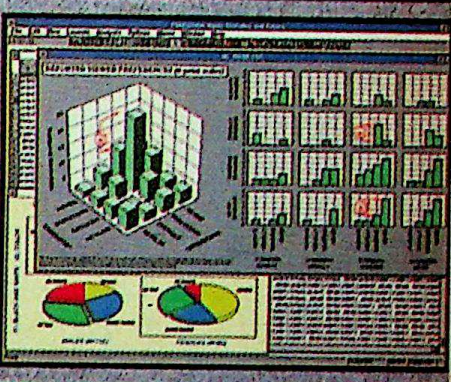
STATISTICA

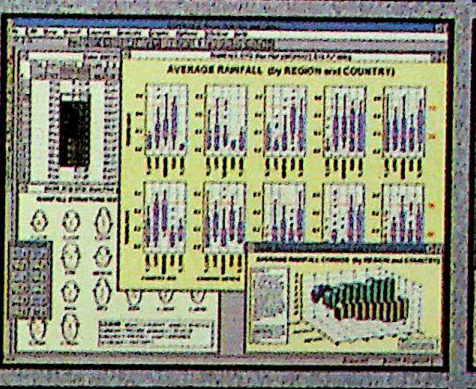
Windows 3.1 and WINDOWS 95

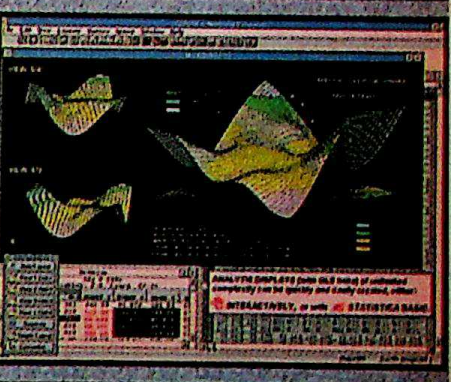


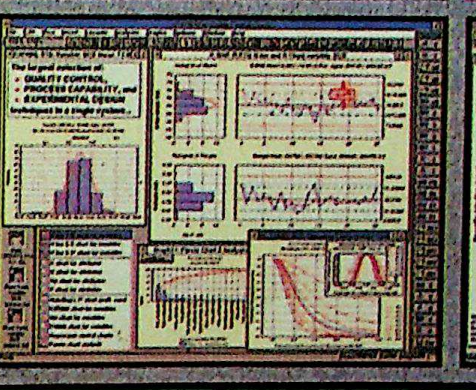


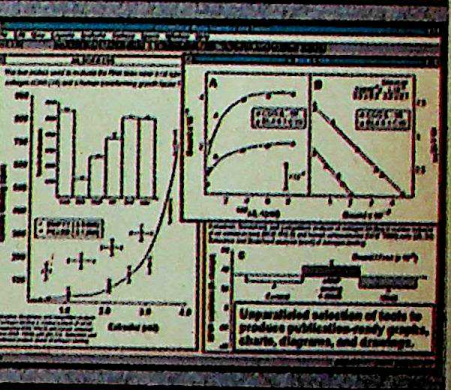












STATISTICA™ (automatically configures itself for Windows 3.1 or Windows 95) ■ A complete data analysis system with thousands of on-screen, customizable, presentation-quality graphs fully integrated with all other modules ■ Comprehensive *Windows*™ support, OLE (client and server), customizable *Auto Task* toolbars, pop-up menus ■ Multiple data-, text and graph-windows with *data-graph* links ■ The largest selection of basic and graphs in a single system; comprehensive implementations of all primary techniques with advanced brushing; multi-way tables with presentation-quality reports); nonparametrics; distribution fitting; multiple regression; general nonlinear estimation; stepwise logit/probit; ANOVA/MANCOVA; stepwise discriminant analysis; log-linear analysis; confirmatory/exploratory factor analysis; cluster analysis; multidimensional scaling; canonical correlation; item analysis/reliability; survival analysis; a large selection of time series modeling/forecasting techniques; structural equation modeling with *Monte Carlo* simulations; and much more. The *Electronic Manual* with comprehensive introductions to techniques and examples ■ Hypertext-based Stats Advisor expert system ■ Workbooks with multiple *AutoOpen* documents (e.g., graphs, reports) ■ Extensive data management facilities (fast spreadsheet of unlimited size, *Drag-and-Drop, AutoFill, Auto-Edit* with long formulas, split-screen/variable-speed scrolling, advanced Clipboard functions, hot links to graphs, relational merge, data verification, 3DE fields, hot links to graphs, relational merge, data verification ■ Powerful *STATISTICA BASIC* language (professional development environment) with matrix operations, full graphics support, and links to external programs (*DLLs*) ■ Batch command language and recorded macros, flexible "turn-key" and automation options, custom-menus and procedures can be added to floating *Auto Task* toolbars ■ All results displayed in Scrollsheets™ (dynamic, customizable, presentation-quality tables with instant 2D, 3D, and multiple graphs) or word processor report editor (of unlimited capacity) that combines text and graphs ■ Extremely large analysis designs (e.g., correlation matrices up to 32,000, unlimited ANOVA designs) ■ Megafile Manager with up to 2 billion variables (8 Mb) per record ■ Unlimited size of files; extended (16 digit) precision; unmatched speed ■ Exchanges data and graphs with other applications via DDE, OLE, or an extensive selection of file import facilities (incl. *ODBC* access to virtually all data bases and spreadsheet files) ■ Hundreds of types of graphs, incl. categorized multiple graphs, ternary 2D/3D graphs, matrix plots, icons, and unique graphs (e.g., 4D) graphs ■ Facilities to custom-design new graph types and add them permanently to menus or toolbars ■ On-screen graph customization with advanced drawing tools (e.g., scrolling and editing of graphs in 32x real zoom mode), compound (nested) OLE documents, *Data-Graph AutoLayout Wizard*, templates, special effects, and layout control for slides and printouts; unmatched speed of operations ■ Interactive rotation, perspective and cross-sections of 3D graphs; large selection of tools for graphical exploration of data: extensive brushing tools with animation, fitting, smoothing, overlaying, spectral decompositions, layered compressions, marked subsets.

STATISTICA (for Windows) ■ A subset of *STATISTICA*; the same selection of basic statistics and the full analytic and presentation graphics capabilities of *STATISTICA*.

STATISTICA/QC - *industrial statistics add-on package* (requires *STATISTICA* or Quick *STATISTICA* for Windows) ■ The largest selection of industrial statistics in a single package; quality control charts (compatible with most data acquisition systems), process capability analysis, R&R, multivariate methods, and an extremely comprehensive selection of experimental design (DOE) methods ■ Flexible tools to customize and automate all graphs and reports (incl. "turn-key" system options, and tools to add new procedures).

STATISTICA/Mac (for Macintosh) ■ also available.

StatSoft®

DISTRIBUTORS IN INDIA

MEDHA SOFTWARE LIMITED

NEW DELHI : 70, Janpath, New Delhi-110 001. Ph. # 011-3731844-45 3320824, 3324551, 3328313 Fax # 011-3723266
BANGALORE : 842, S.T. House, IInd Floor, Richmond Road, Bangalore-560 025 Ph. # 080-2240396 Fax : # 080-2240397
MUMBAI : 104, Adarsh, 1st Floor, 86, Main S.V. Road, Santa Cruz (West) Mumbai-400 054 Ph. # 022-6462053 Fax # 022-6487845
CALCUTTA : Flat No. 306, B-Block, Mansarovar Building 3B, Sarat Bose Street, Calcutta - 700 016 Ph. # 033-292260 Fax # 033 2429044

RESPONSE COUPON

Name .....
Designation .....
Organisation .....
Address .....
.....
Phone( ) ..... Fax( ) .....

Yes, I am interested in knowing more about how I can use any of the Statistica products given below. Please tick:

☐ Statistica for Windows ☐ Statistica/Quick
☐ Statistica Windows 95 ☐ Statistica/QC

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Now that the experts have ranked us No. 1 ... it's your turn.

Your choice in UPS systems narrows down to one name...

PCQ Labs and IIT Delhi put a range of power systems to the test. Load, effficiency, regulation - you name it. After careful testing, the COMPACT 800 Sleek ranked first in its league.

Full featured, more value for money than any of the others, COMPACT is precision packed power protection for your systems.

You're safest with COMPACT.

COMPACT

800 'Sleek'

COMPUTER WARE

HEAD OFFICE-C-1/B Green Park Extension, **New Delhi** -110 016 T... 6863278 Fax: 6852295 MARKETING OFFICE : **Pitampura, West Delhi** (Br... Office) -7428925, **Agra** - 352073, 52216 Fax : 350281, **Ahmedabad** - Tel & Fa... **Allahabad**-641690, **Amritsar** - 52972, 233521, **Bangalore** - Tel & Fax: 2256298, **Cochin** - 354027, **Coimbatore** - 210635, **Coonoor** - 22014, **Dehra...** - 627860, **Gorakhpur** - 333598, 337898, **Hyderabad** - 241041, 24... **Indore**- 465465, **Jammu** - 530187, **Kanpur** - 544874, 548032, **Kan...** 255407, **Ludhiana** - 458871, **Madras** (Branch Office) - 453403, **Raipur** - 5...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

e confused about the differences tween the two you are not alone; tscape is reported to rue naming vaScript as they did. This summary the differences between JavaScript d Java is adapted from Netscape's rial at <http://home.netscape.com/ mozilla/Gold/handbook/javascript/>. To see the effect of a simple vaScript program, view the Electronic vacy Information Center's page at

JavaScript	Java
Interpreted, not compiled, by client.	Compiled on server before execution on client.
Object-based. Code uses built-in, extensible objects, but no classes or inheritance.	Object-oriented. Applets consist of object classes with inheritance.
Code integrated with, and embedded in, HTML.	Applets distinct from HTML but accessed from HTML pages.
Variable data types not declared (loose typing).	Variable data types must be declared (strong typing).
Dynamic binding. Object references checked at run-time.	Static binding. Object references must exist at compile-time.
Secure. Cannot write to hard disk.	Secure. Cannot write to hard disk.

tp://www.epic.org/> using Net-pe Navigator 2.0.

perhighway: Metaphor Crash

See <http://www.abcland.com~jw-man/humor/suphwy.html> for an cient dismembering of the "infor-tion superhighway" metaphor. This has been around the Net for some e, but I have never seen an attri-tion for it. A bit of research using Vista reveals six Web sites that the article; the evidence points to Wiedman <jwiedman@esri.com> e possible author. Jim says on his e page that he enjoys forwarding rrous pieces on the Net but that he n't write them. In any event Jim rd the piece to alt.religion.sub-.com on May 24, 1995 from <jimvdw-

's Aqui: Organized Copyright ation

M has been offering a service called since late last year at <http://qui.ibm.com/>. Its motto is "Unlock power of the Internet." The premise is to allow any user with a Web browser to add links to any page on the Web. In fact Aqui does this by making a complete copy of the page in question, wrapping it in new markup, and storing it in a database along with the new links.

Anyone on the Net can cause Aqui to capture and repackage my home page. Visit it <http://www.aqui.ibm.com/cgi-bin2/fetch/url=http://www.atria.com/~dawson/> and the deed is done—my home page has been duplicated in some IBM database as <http://www.aqui.-ibm.com/cgi-bin2/fetch/url=_1BABK5A-83B>, now bearing IBM copyright notices.

Users around the world, named or anonymous, can now make links from my captured home page to any other pages that strike their fancy; others (through Aqui) can see and follow those links. I wrote at the bottom of my page "Copyright, all rights reserved," and the words persist on Aqui's copy. When I post my home page on the Web I expect the world to read it and to forge links to it. The content of my page, including what is linked *from* it, I expect to be my decision alone. IBM's Aqui takes that decision out of my hands. If that's not copyright violation I don't know what is.

Wild West Now The Bible Belt

The Internet has been the least-regulated communications medium. I believe that the medium's phenomenal growth in recent times has been due in large part to the absence of regulation. On February 2 both houses of the US Congress passed a telecom reform act that, almost as an afterthought, will transform the Net (in the US at least) into the most tightly restricted of media. Words, ideas, and images that can be freely communicated in film, on the printed page, and in broadcast media will subject their originators and carriers to fines up to $250,000 if expressed on an electronic network.

The Supreme Court decision "FCC vs Pacifica" is the source of the constitutional definition of "indecency." The text of this decision is on the Net: <http://www.eff.org/pub/Legal/Cases/FCC_v_Pacifica/fcc_v_pacifica.decision>. Once the telecom reform bill takes effect this text will itself be illegal. Anyone found guilty of making it "generally available" on the Internet could go to jail for two years. This is because the Supreme Court decision contains many references to the words that made the material in question indecent, as well as a full transcript of the indecent material.

The Exon indecency amendment (named for Senator James Exon, Dem/Neb) is almost certainly unconstitutional as passed. It would limit discourse on the Internet to a level suitable for seven-year-olds. Once the President signs the telecom reform bill (which he has said he will do), advocates of free speech are certain to mount court challenges as soon as the law takes effect. The immediate concern is the chilling effect the legislation will have on Internet service providers, who may even now be pulling questionable material from their sites.

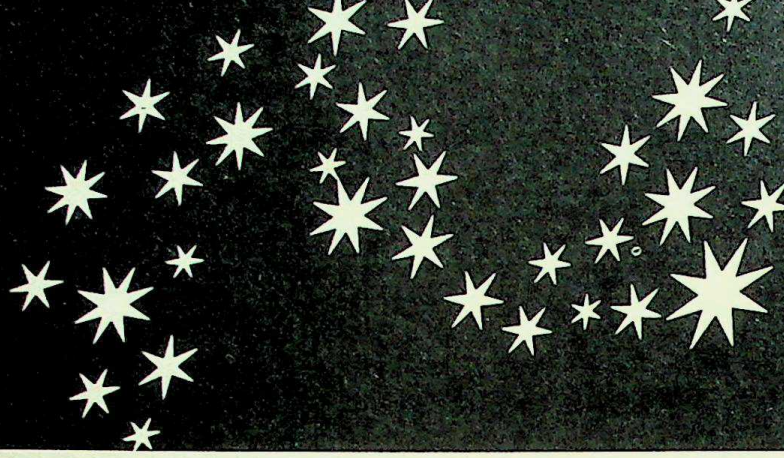
One particularly egregious twist in the indecency language was inserted at 2:30 in the morning before the bill passed the House of Representatives. With no chance of public debate, Rep. Henry Hyde (Rep/Ill), a strong opponent of abortion, pushed through an amendment to the telecom bill that seems to have the effect of outlawing any online discussion of abortion. The amendment extends a section of the US Code (The Comstock Act) prohibiting certain kinds of "obscene" speech to cover interactive computer services.

Among the staunchest critics of the bill is Rep Shroeder, who said in a later statement: "Under the false guise of

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ATTENTION SOFTWARE HOUSES



Give your business a quantum leap ...and gain international recognition, as well.

Be a Magic Solution Partner (MSP)

This special offer comes from Datapro and Magic Software Enterprises (MSE), Israel. Over 4,00,000 endusers and 50,000 developers, in 45 countries across the world, are exploiting the power of Magic to produce incredible results for themselves.

What is the MSP Programme?

Created exclusively for Magic Software Developers the world over, the programme offers you benefits in four distinct areas.

1. **BENEFITS FROM THE PARTNERSHIP WITH DATAPRO**
— Assistance in business planning, development and marketing.
— Publication of your solution details in the International and Indian MSP Directories and Magicom—the Magic Community magazine from the U.S.
2. **THE EXPORT BENEFITS**
— Higher revenues through overseas assignments.
— Overseas markets for the product you develop in India.
— Professional guidance to your people while on assignment abroad.
3. **SUPPORT SERVICES FROM MAGIC SOFTWARE ENTERPRISES, ISRAEL**

Avail of a range of support services at special prices.
— Magic University.
— Magic Consulting.
— Magic Maintenance Programme.
— Magic User Groups.

4. **BENEFITS FROM THE MSP NETWORK**

MSPs develop applications for their clients in less than half the time (and half the cost) and offer the same software to clients on different platforms. As a result, MSPs continue to earn higher profits from each project or product they work on. As an MSP, you also enjoy the option to procure software products of other MSPs to offer your clients—yet another win-win alliance.

MAGIC—The No. 1 RAD Tool in the world for 4 successive years

- ❑ Upto 10 times faster Application Development.
- ❑ Magic makes you programmer independent.
- ❑ Hardware, Operating System & Backend independence.
- ❑ Magic gives you access to 3 layer Client & Server implementation—Client only, Server only and Client & Server.
- ❑ Over 50 MSPs including A.F. Ferguson, etc Automation, Hiranandani, Indus Software, Poonawala Financials, Stress Services and Soft Systems are already reaping Magic benefits in India.

We have a no-obligation presentation on the power of RAD, Magic and the MSP Programme. Ask for a Magic demo and a presentation on the business opportunities. Discover how the MSP worldwide network helps you translate these into reality.
Call Datapro today.

To benefit by this amazing offer o

MAGIC

ACT NOW. Limited Offer

MAGIC
Productivity *beyond* 4 GL.

COUNTRY DISTRIBUTORS
DATAPRO INFOWORLD LTD.
SALES & SUPPORT DIVISION
COMPUTER EDUCATION • SOFTWARE & CONSULTANCY • SALES & SUPPORT

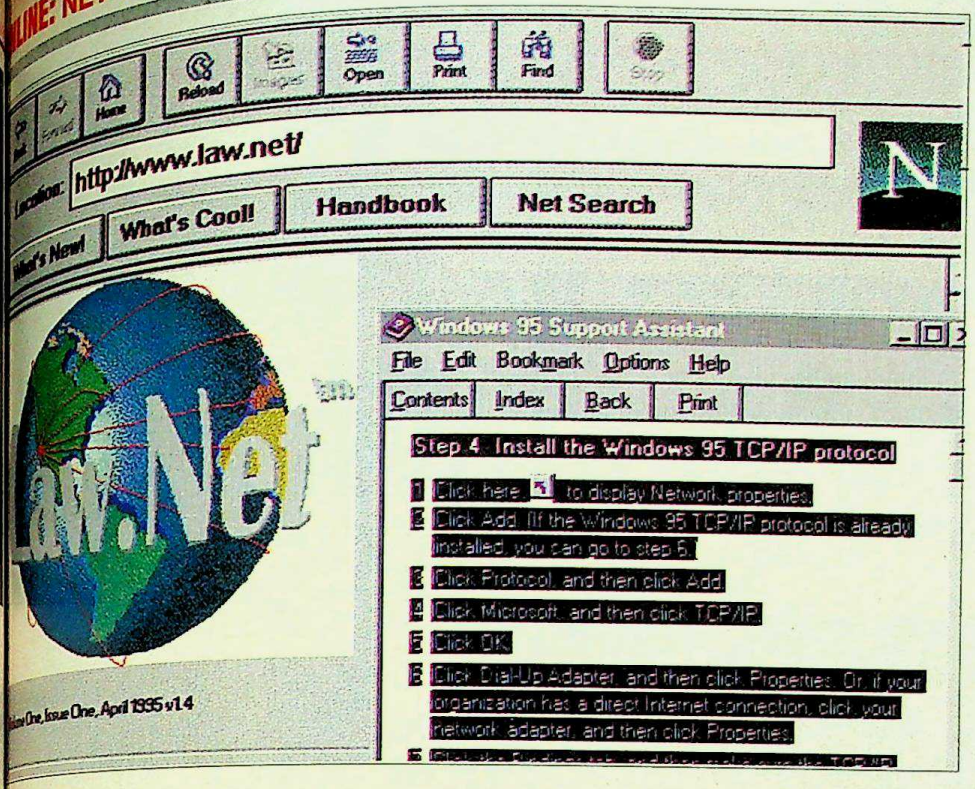
datapro
Making *IT* Work For You

Corporate Office :
113/1, Koregaon Park, Pune 411 001. Tel.: 638975, 630326
Fax : 634813.

Regional Offices: ■**Bangalore:** 1/21, 2nd floor, Hanumanthappa Layout, Ulsoor Main Road, Bangalore 42, Tel.: 5550688. ■**Baroda:** Satyam Apartments, Vrajwadi. Jetalpur Road, Baroda 5. Tel.:337325. Fax: 337325. ■**Bombay:** Jer Mansion, Off Turner Road, Bandra (W) Bombay 50. 6438564, 6438566. Fax: 6424721. ■**Calcutta:** 12, Lower Rawdon Street, Ground Floor, Calcutta 20. Tel.: 4752414, 4760128. Fax: 4754098. ■**Delhi:** C-21, Shopping Centre, Delhi 16. Tel.:6967814, 6969356. Fax: 6862524. ■**Madras:** Vanbey Business Centre, 152, Greaves Road, Madras 6. Tel.: 8251150. Fax: 8254336. ■**Pune:** 113/1, Koregaon Park, Pune 1. Tel.: 638975, 630326. Fax.: 634813. ■**Secunderabad:** YMCA Complex, S. P. Road, Secunderabad 3. Tel.: 802632. Fax: 802632.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



...ualizing obscenity, the bill as it is ...written includes the most egregious ...rule about abortion related speech ...gress has ever seen...this bill is ...t telecommunications, not abor... Congress should take this uncon...tional, obsolete language out of ...bill and out of the computer age."

...e Ribbons And Black Pages

...mong the protests springing up in ...ence of the signing of the Telecom ...rm Act, Internet users saw Web ...s sporting a blue ribbon and others ...the same ones) with white type on a ...t background. The Electronic Free... Foundation urged the owners of ...pages to add a blue-ribbon graphic, ...scent of the AIDS ribbon; see ...://www.eff.org/blueribbon.html>. ...Voters Telecommunications Watch ...ization asked page owners to turn ...r pages black for 48 hours after ...sident Clinton signs the bill—see ...://www.vtw.org/speech/>. (The TBTF ...re sported both protests, as did ...y Websites around the world.)

...k: The Comms ...cy Act

...n February 15, a week after Presi... Clinton signed the telecom reform ...ntaining the CDA, a Federal judge ...ed a temporary restraining order ...st the US government enforcing ...ngle "indecency" provision of the act. He rejected requests for restraining orders on other provisions of the bill, letting stand bans against "patently offensive" material and against discussion of abortion over a network. (The administration has said that this latter provision will not be enforced, though this assertion lacks the force of law.) Tomorrow a three-judge panel will schedule a full review of the case. If the restraining order is later lifted the government could prosecute for violations that occur while the restraining order is in place.

In the wake of the CDA an offshore Internet service provider has made the first of what I expect to be a minor flood of service offerings directed at US citizens. Vincent Cate <vince@offshore.com.ai> from Anguilla offers a $50/month Unix/Web/POP account or an e-mail-only account for $200/year–see <http://online.offshore.com.ai/>. I would think twice if I were a US citizen intent on going offshore to host a Web site that the CDA might class as "indecent." Could I be prosecuted for transmitting indecent content over a network from Boston to Anguilla as I set up the site? I've read the CDA carefully again and again, and I still can't say for sure.

Follow-up: German Networks Blocking Access To Webcom

Two networks that supply universities and other institutions in Germany joined Deutsche Telekom, which runs T-Online, in blocking access to the California ISP Webcom and its 1,500 customers' Web sites. One of Webcom's customers (in Toronto) distributes neo-Nazi material that is illegal in Germany. The university networks are DFN, which operates WiN and BelWue (the latter, financed by the Ministry of Culture, is a network connecting universities in southwestern Germany).

As of early Saturday morning German time, both the university networks had lifted the ban on Webcom. Ulf Moeller <in5y113@public.uni-hamburg.de> wrote to the fight-censorship+ mailing list on Saturday afternoon, reporting a BelWue official's explanation of the decision to lift the ban. One factor that did not enter into the decision was the numerous "mirror" sites that US free-speech advocates had established to highlight the futility of such an attempted blockage. Moeller writes: "In a personal annotation, [the official] claims that the mirror sites had not been relevant for the decision, and calls them an 'interference with internal affairs' of Germany (which I find especially astonishing since those were the exact words of the standard East German reaction when confronted with human rights issues)."

Rich Graves <llurch@networking.stanford.edu> has the last word. He wrote to the colleague who instigated the mirror sites: "There's a lot of icebergs out there. Why do you insist on ramming them all? I'd rather just route around them."

<http://www.atria.com/~dawson/tbtf/death-of-usenet.html>.

By arrangement with Keith Dawson

TBTF, hosted by Keith Dawson <dawson@atria.com>, alerts you weekly to bellwethers in computer and communications technology, with special attention to commerce on the Internet. See the archive at <http://www.atria.com/~dawson/tbtf/>. To subscribe send the message "subscribe" to tbtf-request@world.std.com

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

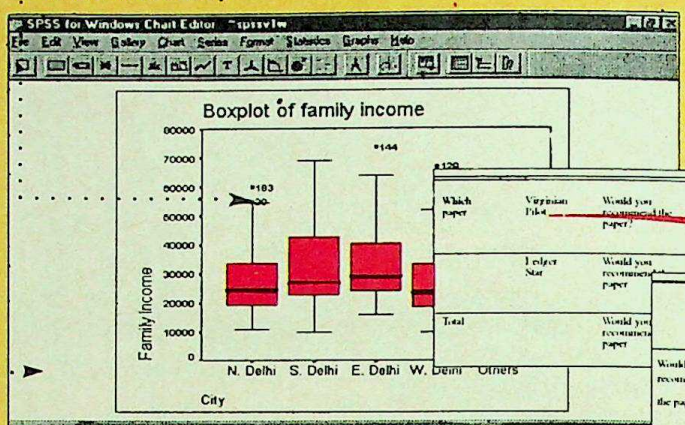
Digitized by Arya Samaj Foundation Chennai and eGangotri

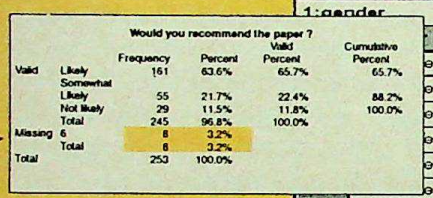
Secrets SPSS can tell you everyday
(that spreadsheets can't tell you anyday)

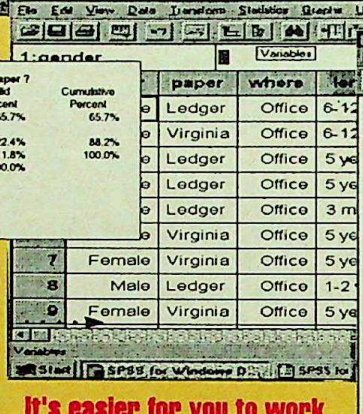
1 You need the big picture to make good decisions. With SPSS' statistical charts, you can better understand your data. In this boxplot, you see the average, minimum, maximum and distribution all at the same time.

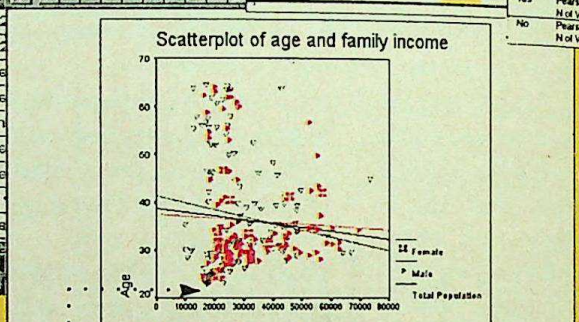
2 You need to know when there's a problem with your data. SPSS helps you spot data entry errors or unusual data points that you may want to leave out of your analysis – or look at more closely.

3 You need to look at the data more than one way. When you create a report, what you see often leads to more questions. With SPSS' revolutionary pivot feature, you can easily reorganize the table to look at your data from another angle by simply dragging an icon.









4 You need to [illegible] what's sig[illegible] Use full-[illegible] statistics to [illegible] immediately [illegible] are significant [illegible] differences are [illegible] your stats are [illegible] "What's This" [illegible] explanations, [illegible] and rules of [illegible] statistics or [illegible]

5 You need to separate the apples from the oranges. SPSS lets you quickly and easily run reports and graphs for different groups so you can look at them separately or compare them.

6 It's easier for you to work with words than numbers. Within a familiar row-and-column setting, SPSS lets you work with words instead of confusing codes - and still do calculations. Your labels are automatically applied to your graphs and reports for clearer, faster presentations.

7 You need accurate results even when some of the data are missing. When there's data missing, or when you enter a code for a "don't know" answer, SPSS can adjust calculations accordingly.

SPSS gives you Real Stats. Real Easy. SPSS is a complete tool kit of easy-to-use statistics, graphs and reports that will help you unlock the secrets hidden in your data. Enter your data or directly import it from spreadsheets, databases or ASCII files. SPSS is used for:

Survey research ■ Marketing and sales analysis ■ Quality improvement ■ Research of all types

We're not saying you should give up your spreadsheet or database. But, when you're ready to go beyond simple summaries and basic row-and-coloumn math to get the information you really need, you're ready for SPSS for Windows.

Ask Prof. Dr. J. Christopher Daniel, M. A. Ph. D (Social Work), Goodwill Social Work Centre, Madurai, India "As a regular user of SPSS, we undertake varied studies for analysis in the fields of social sciences, market surveys, etc. It's a pleasure to work with SPSS, a fine masterpiece."

EDITOR'S CHOICE PC QUEST 1995

WINDOWS 1995 WIN 100

Special offers

- Return the coupon for a copy of our white paper on *achieving a competitive advantage in business, through statistics.*
- See demos or try **SPSS for Windows** and **QI Analyst**, from the CD-ROM in this issue.
- Get your unique **SPSS screen saver** from the CD-ROM.

Visit our site on the World Wide Web: http://www.spss.com

To order or for more information

Call (011) 6112837

or Fax (011) 6888851

SPSS India Private Limited
223 Ashok Hotel, Chanakyapuri
New Delhi 110 021 India
or contact our authorised distributor :
WIPRO Software Products Division
Ph. (080) 2233534 Fax (080) 2218590.

Name
Designation
Address
City Pin
Phone ( )
FAX ( )
E-mail

SPSS Real Stats. Real Easy.

PCQ 0396

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

POBOX: A "Lifetime E-Mail Address"

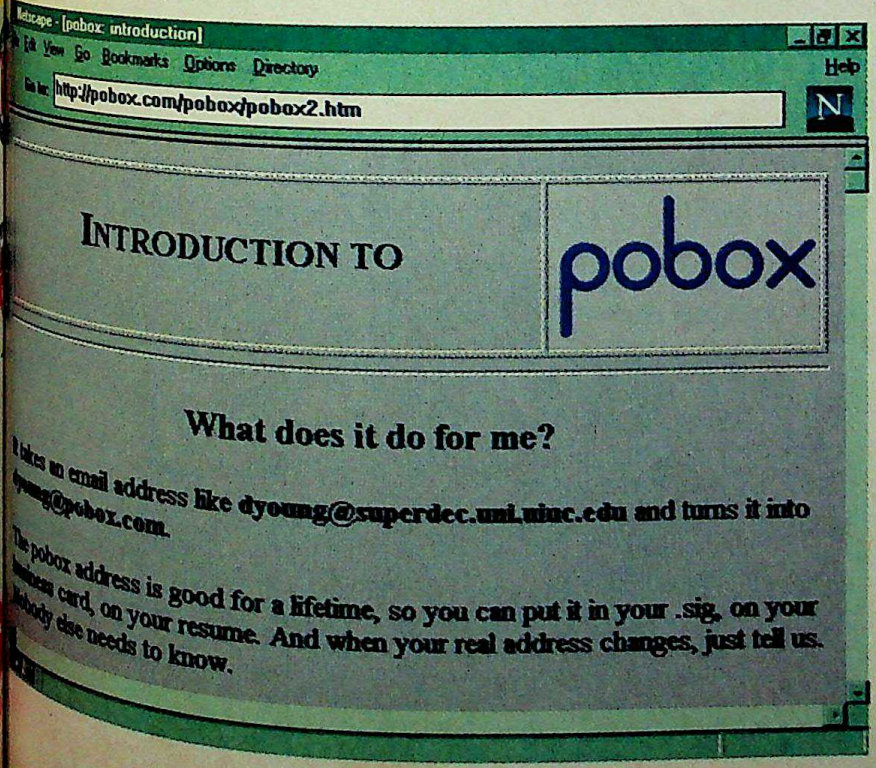
A neat, low-cost service on the Internet that's great for Indian e-mail users

POBOX is a service aimed at people who already have an Internet e-mail address, but whose address is very long (a problem familiar to almost all Indian e-mail users), or is likely to change frequently. For $15 a year, it gives you an e-mail address like **anu@pobox.com**, from which mail is bounced to your real address (which could be anubha.maha-n@axcess.net.in).

You get a really compact e-mail address, easy for everyone to remember and use without errors.

And you can change your real address as often as you like, but your pobox address, which is what you'll print on your visiting card, never changes. So you don't have to keep telling people about a change of address.

For instance, my address is pkr@pobox.com, which is normally redirected to prasanto@giasdl01.vsnl.net.in (phew). When my VSNL account recently expired and took some time to renew, I simply redirected my POBOX account to pkr.pcq@ axcess.net.in. If I travel to a place where I don't have Internet access, but a friend I'm staying with has an e-mail address, I direct my POBOX account to that address (I could use a .forward file at VSNL, but many providers, such as aXcess, don't let you .forward mail).



THE SPECS

SERVICE: POBOX. A forwarding service that gives you a "lifetime e-mail address" like anu@pobox.com, and bounces all your mail to your real e-mail address, which you can change as often as you like. Registration and changes done online. Fast, reliable and effective in PCQ Labs tests.

PRICE: $15 a year (for three aliases linking to one real e-mail address). Three months free trial.

CONTACT: POBOX. Connect through any WWW browser to http://pobox.com/, or send e-mail to info@pobox.com.

RQS#E0346

Automated registration or change of address can be done online, through a Web browser (I use VSNL's Lynx in my shell account) or, if you don't have a live Internet account, via e-mail.

You get to try POBOX out free for the first three months, getting three aliases that point to the same real address. For instance, mail sent to pcq@pobox.com and cyber@pobox.com also bounces to my real e-mail address.

WWW URL redirection is given free with the $15 account. Web clients going to your pobox.com URL are transparently redirected to your real home page. For example, clicking on http://pobox.com/~monster will bring you to http://www.iisc.ernet.in/~monster.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

KEYSKIN® KEYBOARD PROTECTORS

MANUFACTURED BY : COMPUCOVER EAST PVT. LTD. IN COLLABORATION WITH COMPUCOVER INC. U.S.A.

Now you can protect your computer keyboard and use it at the sametime with KeySkin® Keyboard Protectors

24 Hrs. Protection

The KeySkin® Keyboard Protectors from CompuCover is a super thin protective cover for Desktop, Laptop or Notebook Computers, Cash Registers, Typewriters, Telephones, Cellular Phones, Remote Controls and any other electronic equipment with keys.

KeySkin® Keyboard Protectors Protect from damaging dust, spills, hair, staples and other contaminants. The protector is soft and flexible and form fits your Keyboard to preserve the feel.

How to Order :

It is important to determine the name and model number of your product before calling. This information is usually found on the bottom of the keyboard. This will ensure the best fit. Our experienced and courteous sales staff is waiting to assist you.

Visit us at PC EXPO Bombay

CompuCover East Pvt. Ltd.

D-15, Ranjit Nagar, Commercial Complex, New Delhi-110008, INDIA
Phone : 11-5704371 Fax : 11-5703371/5708963
Internet address : http;//www.compucover.com/CCEast.html

Visit us at PC EXPO Banglore

DEALERS :

AHMEDABAD	MEHTA BROTHERS	447830
BANGALORE	P.M.T. PVT. LTD.	6633789/6636465
	ANKITA ENTERPRISES	605729/6617218
	SHREYA INFOTECH	3389529
BARODA	TYPE HOUSE	313895
BOMBAY	K.K. ENTERPRISES	5127351
COCHIN	GATEWAY SYSTEMS	361704
COIMBATORE	AL SYSTEMS	232561
DELHI	C.A.M.S.	5704471/5704371
FARIDABAD	HICOMP SOFTWARE	276326
HYDERABAD	TMC SERVICES PVT. LTD.	240765
JAIPUR	DATCAL SYSTEMS	Pager: 9610-303452
JODHPUR	S.K. ENTERPRISES	39570
LUCKNOW	'N' PORUS INFOTEK	218332
MADRAS	RELIABLE ENTERPRISES	562448
	VERSATILE MARKETING	568818
MYSORE	R & L ENTERPRISES	36604
NAGPUR	MAYUR COMPUTERS	535127
RAJKOT	MIHIR COMPUTERS	46668/43831

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The POBOX System

An interview with Reuven Bell, 23, president of the IC Group which runs POBOX.

What's your hardware and datacom?

Our main box is a Micron P-133 running Linux, connected to the Net via 10 Mbps Ethernet to a T3 line on the Netaxs network. The T3 plugs directly into MAE-East. Our backup server is a Sun SPARC II connected via a T1 line to SprintLink. We also have a 486 running Linux for immediate physical replacement, should anything happen to either of the major boxes. All of our mailing functions are further backed up on a separate machine located at another company's headquarters, connected to PSI via T1, as a last resort backup.

Do you store-and-forward, or what?

We do absolutely no storage. It is an instant bounce via sendmail forward. This ensures faster transmission of e-mail, as well as greater security for those who are worried that we may be peeking in on their mail (we are not). However, we will soon be offering a service by which users who are in-between primary accounts can store their messages here until they get a new account, at which time we will bounce it all to them. We're also looking into the possibility of offering POP accounts at some future date.

What happens if all your systems go down?

As I said, we are thoroughly backed up with redundant servers so that it would take an absolute catastrophe on three networks (or at three separate physical sites) for mail forwarding to be interrupted. Should this happen, however, mail should bounce back to the original sender.

What about WWW accesses?

There's no rerouting available for WWW hits, because of the nature of the protocol. URL redirection is only hosted at the primary machine (or, the third backup, in case of physical failure on the part of the primary server) at the T3 site. If this goes down, http requests will simply not go through. Of course, this kind of downtime is a very infrequent occurrence. ■

process is invisible to the end user, d it him the trouble of typing long

Mailing Lists: POBOX hosts mailing ts of all sizes, which could be "for the graduates of your high school, or for 350,000 people who went to ckstock '94." The list manager is the ular Majordomo, and the list manement is automated by "WebDomo", program that lets list admins handle bscriber database and list configura-. The pricing is flat-rate: $50 for the t year and $20/year for subsequent rs. To set up a mailing list, e-mail box@pobox.com with the name and rpose of the list, and an initial list of es, and the list is activated as soon payment is received.

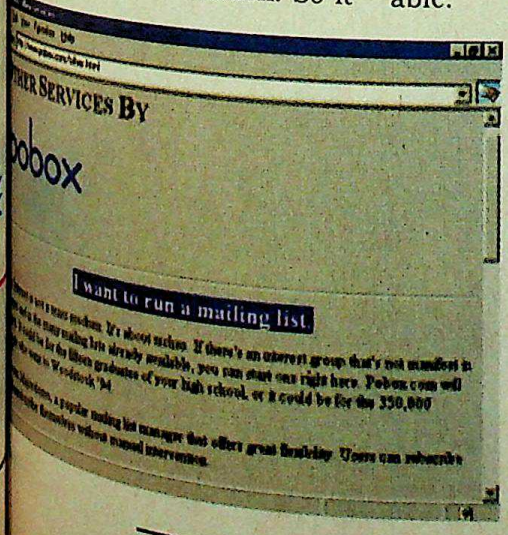
Domain Registration: POBOX mplifies Internet domain registration. If u or your company want to register a main like bajaj.com (with mail adresses like anu@bajaj.com) POBOX l charge you $50, apart from the erNIC fees of $100 covering the first o years.

You can then forward e-mail sent to sses on your domain, either to one e-il address or to distinct addresses, a charge. WWW URL redirection is t supported with registered domains.

rformance

In three months of testing by PCQ ts, POBOX's performance has been y good indeed, with mail forwarded mediately and reliably to the target count.

Registration and changes were ndled efficiently and automatically. wever, change in your real e-mail dress is activated only in the next , apparently after verification. So it can take 12 hours or more for an address change to happen. It would have been nice to have this happen a little faster, but as you won't change your address every day, this is tolerable.



One minor caveat for Indian e-mail users. If your present e-mail service uses dial-up polling for international mail (e.g. aXcess), and also charges you significantly higher for international mail (aXcess, SprintRPG, etc), it would continue to be faster and cheaper for another user on your own network to send you mail directly to your real internal address (say anubha.mahajan, in the aXcess case). However, for a user of an e-mail service outside your own, there would be no difference to the time or cost.

Finally, payment. The amount is minor (under Rs 600 a year), but the hassle of paying in US$ through your bank could put you off. However, the process is fairly straightforward, and banks will process such payments in a fairly straightforward way under "magazine subscriptions". It makes sense to pay for two or three years at a time, for such a small amount. Those who can pay by International credit card or through a friend or relative will, of course, find that easier.

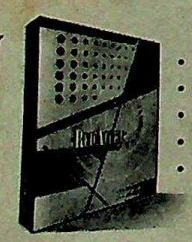
Overall, a neat and novel service that works very well for Internet and e-mail users in India.

PKR at PCQ Labs

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The most brutal killer causes no bloodshed.



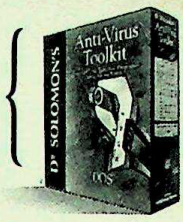
Neville Bulsara's RedAlert

- *Includes Dr. Solomon's FindVirus Scanner*
- *India's highest-rated anti-virus software*
- *Virus independent. Protects against future viruses*
- *World's fastest integrity-checker*
- *Multi-layered approach for maximum security*

105, 1st Floor, Om Chambers, 123, A. K. Marg, Kemps Corner

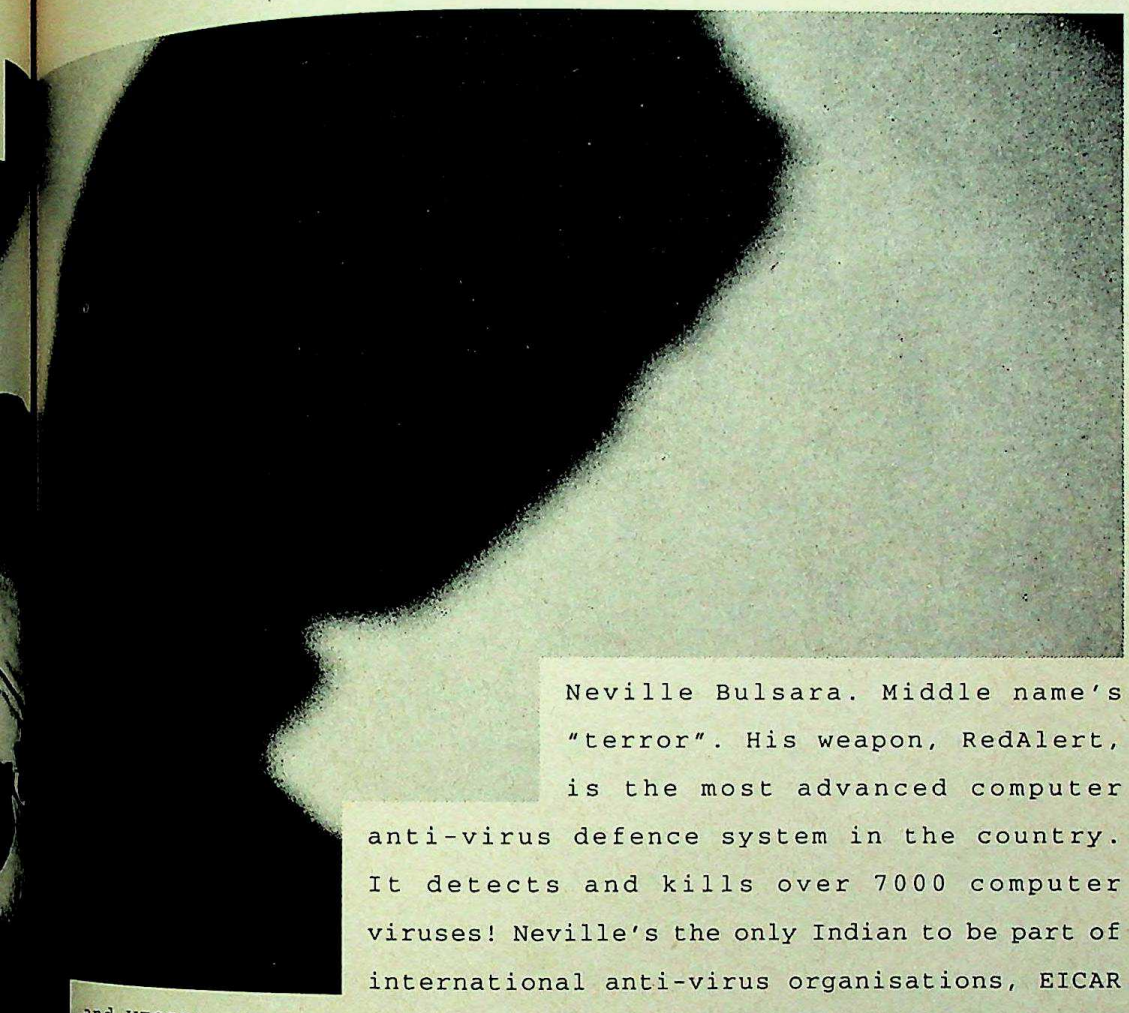
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Dr. Solomon's Anti-Virus Toolkit

- *Winner of the Queen's Award for Technological Achievement*
- *Identifies the most complex polymorphic viruses*
- *Detects unknown viruses*
- *Scanning speeds of over 7MB per second*
- *Available for DOS, Windows, Windows '95, OS/2, Netware, SCO Unix and Macintosh*



Neville Bulsara. Middle name's "terror". His weapon, RedAlert, is the most advanced computer anti-virus defence system in the country. It detects and kills over 7000 computer viruses! Neville's the only Indian to be part of international anti-virus organisations, EICAR and VFORUM. He has received an international technical excellence award. His gang, N&N, are the specialists in the game. They also market Dr. Solomon's - the world renowned anti-virus toolkit, and service a hotshot clientele. ICICI. Coca-Cola. Pepsi. ITC. ESSAR. fence sector. The mission's to terminate. But it never gets bloody.

Call him before the viruses get you.

N & N
Systems and Software

A Neville Bulsara & Nadir Karanjia Venture

Tel: 368 0512/17/18 Fax: 368 0513. Fort, Tel: 282 3897, 288 6505. Mahim, Tel: 444 9124.

Impressions

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

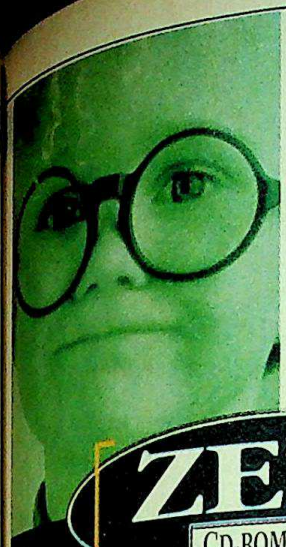
BBSes in India

This list was updated on February 25, 1996 and is the most recent available

Live Wire	Ahmedabad	Roopal Mehta	79-6621116, 6613116
Status Inertia	Ahmedabad	Tinu Sukhadia	79-6568425
The Guide Online	Ahmedabad	Devang Shah	79-6560569
CIX	Bangalore	Atul Chitnis	80-3341137
Calport	Calcutta	Niel Hirjee	33-4755884
Cirrus BBS	Calcutta	Pawan Jalan	33-276528
Live Wire	Calcutta	Shamit Khemka	33-4667915
Black Hole	Delhi	Alex Tabor	11-6113586
CobWeb	Delhi	Aditya Talwar	11-5783483
Crazy Connect	Delhi	Jai Bansal	11-2457148
CyberDen II	Delhi	Arjun Sriram	11-3793841
Delhi Online	Delhi	Deepak Khurana	11-5578536
HeadNet	Delhi	Jayant Jhamb	11-2472135
Investors Online	Delhi	Anmol Taneja	11-6856157
PCQ Online	Delhi	P K Roy	11-6221734
Poison Den	Delhi	Ashwani Agarwal	11-2910518
Solutions!	Delhi	Nitin Chandra	11-6855362, 6965881
Status Indiagate	Delhi	Alok/Anjali Sinha	11-6986777, 6985111/5
Vipris BBS	Delhi	S Dutta	11-6965978
Wonder Net	Delhi	Aman Anand	11-5741230, 5757266
The Orb	Faridabad	Steve Rudolph	129-295547
ECTC Net	Gurgaon	Kishore Bhargava	124-352573
CyberDen	Gurgaon	Satyen Jhaveri	124-353683
Status Shiva	Kolhapur	Swarupa K	231-661787
Live Wire BBS	Madras	Loyala Joseph	44-4838826, 4830624
Status King	Madras	S Sekhar	44-8522187
Live Wire BBS	Mumbai	Suchit Nanda	22-5777700, 5777701
Outpost 7teen	Mumbai	Tushar Burman	22-6049820
Way Out Wild	Mumbai	Nitish Jain	22-4961609
Status Kalptaru	Nagpur	Tarun Singh	712-744323
Jabberwocky BBS	Pune	Gautam Godse	212-678749, 673307
Live Wire	Vadodara	Kishor Rach	265-341236
Perfect Choice	Vijay Vallabhnagar	Dr Mishra	2692-46531

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



ZETA CD-ROM DRIVE UPGRADE KITS

ZETA CD-ROM DRIVE UPGRADE KITS LET YOU ENJOY UNPARALLELED MULTIMEDIA EXCITEMENT AND OPEN ACCESS TO A RANGE OF CD-ROM TITLES. WHATEVER YOUR NEEDS; THE ZETA IS YOUR BEST CHOICE.

ZETA CD-ROM DRIVE UPGRADE KITS

Designed for Microsoft Windows 95

PC WELT TESTCENTER EMPFEHLUNG

The Aztech Quad Speed CD-ROM Drive win the "PC WELT Testcenter Recommendation 1995" from PC WELT Magazine Germany - 1995

PC Plus VALUE FOR MONEY

The Aztech CDA 468-011 combines the simplicity of an IDE CD-ROM drive with excellent performance to win "PC Plus Value For Money" from PC Plus UK 1995

HIGHLIGHTS

- Fully Kodak Photo CD compatible, both single and multiple session
- Supports CD-I for Digital Video playback
- Allows playback of Video CD
- Compatible with CD Audio and CD Datastream
- Using the Quick CD Play button on the front panel, users can listen to audio CD without loading software
- Soft eject motorized tray loading mechanism
- Ability to remove CD-ROM when power is down
- Rear panel digital audio output (Video-On-CD ready)

SUPERB CD-ROM PERFORMANCE

There's nothing like the soaring performance of the Aztech CD-ROM drives to unleash the full potential of the latest CD-ROM titles and games. Business and professional users who work with large databases, animation and video, and any demanding drive application, will see that Aztech's all new Windows® 95 compatible powerful 6x CD-ROM drive technology pumping data to the PC six times faster at a 900KB/sec transfer rate, with average seek time of 190 msec. If you plan to run games, reference works and others business applications, look into PC Plus (UK) "Value For Money" quad speed drive that give perfect ratings for its performance.

MINIMIZED CPU UTILIZATION

Even on standard system IDE interfaces, the Aztech drives run less than 50% CPU utilization, releasing the PC for other tasks, and dramatically increasing true system performance.

COMPLETE CD COMPATIBILITY

The Aztech CD-ROM drive supports all the major CD recording standards, including full multi-session Kodak Photo CD, CD-i for MPEG Digital Video, CD-Audio and CD Datastream.

SOFT-EJECT MOTORIZED TRAY

Aztech's soft-eject motorized tray loading system eliminates the need for caddies, with simple front panel controls. Power down? No problem! The CD can be removed simply by pulling the tray.

EASE OF USE

Start, stop and skip tracks on your favorite audio CD's at the touch of a button, with no software to load!

Discover the power of Windows® 95 Compatible AZTECH CD-ROM Technology Today!!

FULL POWER MULTIMEDIA

Authorised distributors : **DIGITAL WORLD INDIA LTD.**, National Headquarters 97, Marol Co-operative Industrial Estate, Andheri-Kurla Road, Marol, Andheri (East), Bombay - 400 059. Tel.: (22) 8381922/8385686/8343500/8344600 Fax : (22)8381074
● Ahmedabad Tel: (79) 468292 ● New Delhi Tel: (11) 6466463/6469988 ● Lucknow Tel: (522) 233392/248346
● Jaipur Tel (141) 382378 ● Madras: Tel: (44) 6429600/6429610 ● Bangalore Tel: (80) 2221143 ● Hyderabad Tel: (40) 846374

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DQ TV

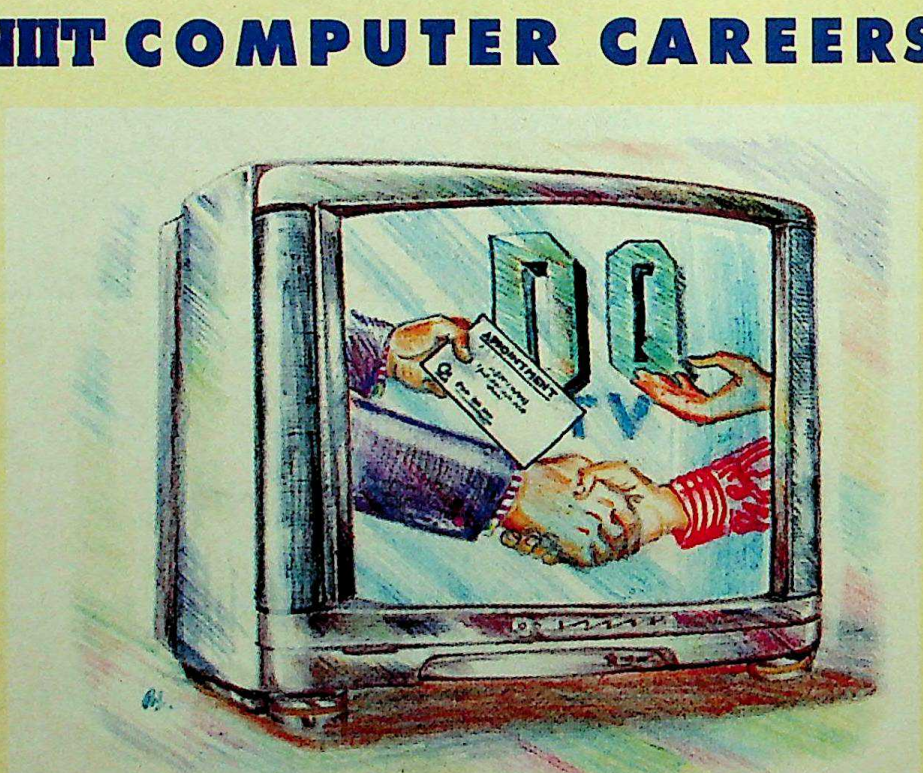
Presents

NIIT
COMPUTER CAREERS

**Do you want to plan a career in the computer industry?
Are you keen on knowing job opportunities in
Information Technology?**

Then don't miss

NIIT COMPUTER CAREERS



**On Doordarshan Metro Channel
Every Wednesday at 8.30 AM**

Digitized by Arya Samaj Foundation Chennai and eGangotri

PCQ Labs Setup Utility

DIGITAL WORLD INDIA LTD

Rapid Reply Card

- ☐ I am interested in AZTECH ZETA, but I want more information. Zap it to me at Fax No.: _____ or Mail it to my address below
- ☐ I want a live experience of AZTECH ZETA.Please contact me at Telephone/Fax No.: _____
- ☐ I WANT MY AZTECH ZETA ADVENTURE TO START NOW ! MY ORDER AS BELOW:-

☐ **AZTECH "ZETA" QUAD SPEED [4X] IDE CD-ROM DRIVE**

Winner of PC WORLD,USA's *Best Buy Award* & PC Plus,UK "*Value For Money*" Award

- ♦ User Installable ! Ready to Plug & Play
- ♦ Complete with Manuals,Cables & diskettes
- ❄ Rs. 9300 /- [Local SalesTaxes Extra]

☐ **AZTECH "ZETA" SIX SPEED [6X] IDE CD-ROM DRIVE**

[PC WELT ,Germany *Recommendation 1995.]*

❖ WINDOWS'95 Compatible ❖128K UltraCache Buffer
CD-DA, CD-PHOTO,CD-ROM,CD-I,Video/Karaoke CD
CD-XA,CD-DATASTREAM , MULTISESSION compatible.
❄ **Rs. 12,295 /-** [Local Sales Taxes Extra]

- ☑ TICK THE REQUIRED BOX AND MAIL COUPON WITH CHEQUE/ D.D. DRAWN IN FAVOUR OF **DIGITAL WORLD INDIA LTD.**
- ♦ PRICES ARE INCLUSIVE WITH FREE DELIVERY. ALL AZTECH PRODUCTS ARE COVERED BY ONE YEAR WARRANTY.
- ♦ INTRODUCTORY OFFER VALID UPTO **15th APRIL 1996 ONLY**.
[PAYMENTS MUST BE CLEARED BEFORE 14th APR '96 TO AVAIL OF OFFER]

AZTECH *INTRODUCTORY OFFER !*

NAME : _____
ADDRESS: _____
_____ PINCODE: _____

*Coupon Redeemable at all our Digital World Centres [See Advt. in this Issue] # C.S.T. Billing Available

Create a Program Group and setup applications being distributed as program items within this group.

If you are distributing a database application using the Borland Database Engine (BDE), the setup program can also create a BDE alias that your application may need on the target machine.

Display a readme file after completing the install process.

Although this column targets Delphi developers, the utility presented here is of use to all developers. If you're not a Delphi developer and want to use this program follow these steps.

1. Download the archive PCQSETUP.ZIP from the Developers' forum on PCQ Online. The archive has three files.
   - PCQSETUP.EXE (260K) — The actual setup program.
   - PCQSETUP.INI. — A sample .INI

background typical of setup applications.

2. Use your application as DDE client, and send commands to a DDE server application. In the setup program we use DDE to create the Windows Program Group and place program items within it.

3. Make direct calls to the BDE using its API

4. See how Object Pascal's exception handling can make your code simple and robust.

In a follow-up to this column I will discuss how write a wizard/

The role of the INI file

The setup program takes its instruction from an INI file — PCQSETUP.INI. This must be written and placed in the same directory as Setup. Generally this

The PCQ Labs setup utility installing the Launch30 application

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

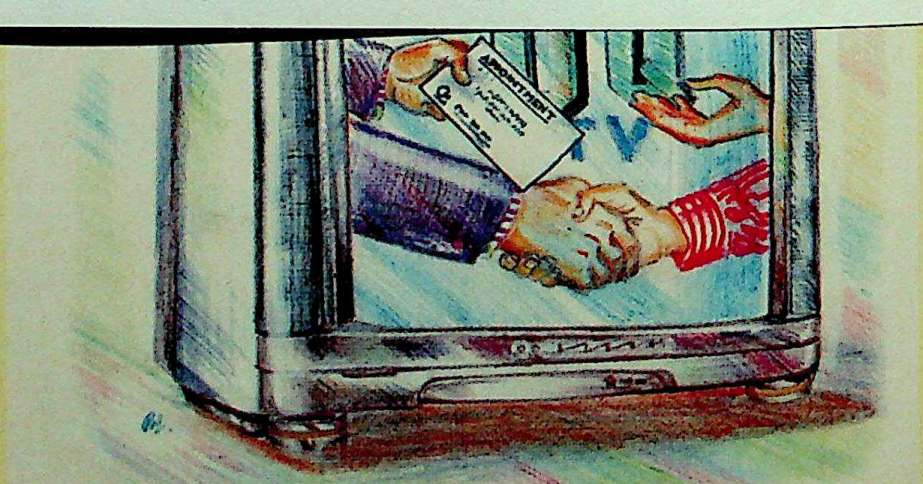
DQ TV

Presents

NIIT

AFFIX POSTAGE HERE

To,
DIGITAL WORLD INDIA LIMITED
97, MAROL CO-OP. INDL. ESTATE
ANDHERI - KURLA ROAD,
ANDHERI (E),
BOMBAY - 400 059.



On Doordarshan Metro Channel
Every Wednesday at 8.30 AM

Digitized by Arya Samaj Foundation Chennai and eGangotri

PCQ Labs Setup Utility

A small utility to make software distribution easier for you

If you develop and distribute apps for the Windows environment, you will find our offering this month interesting. It's a setup program to install your application on a client machine. Its been kept simple but contains the minimum features you would expect of a setup program. This app can:

- Handle multiple groups of files, with each group going to a different directory on the target PC. You can supply the default values for the file destinations, but during installation, the user can change the destination.
- Create a Program Group and setup the applications being distributed as program items within this group.
- If you are distributing a database application using the Borland Database Engine (BDE), the setup program can also create a BDE alias that your application may need on the target machine.
- Display a readme file after completing the install process.

Although this column targets Delphi developers, the utility presented here is of use to all developers. If you're not a Delphi developer and want to use this program follow these steps.

1. Download the archive PCQSETUP.ZIP from the Developers' forum on PCQ Online. The archive has three files.
   - PCQSETUP.EXE (260K) — The actual setup program.
   - PCQSETUP.INI. — A sample .INI file with comments that explain how to use the various sections of the INI file. The setup reads instructions from an .INI file that you need to write using a text editor like NOTEPAD.EXE or EDIT.COM.
   - README.TXT — A text file with excerpts from this article explaining how you can use the setup program.

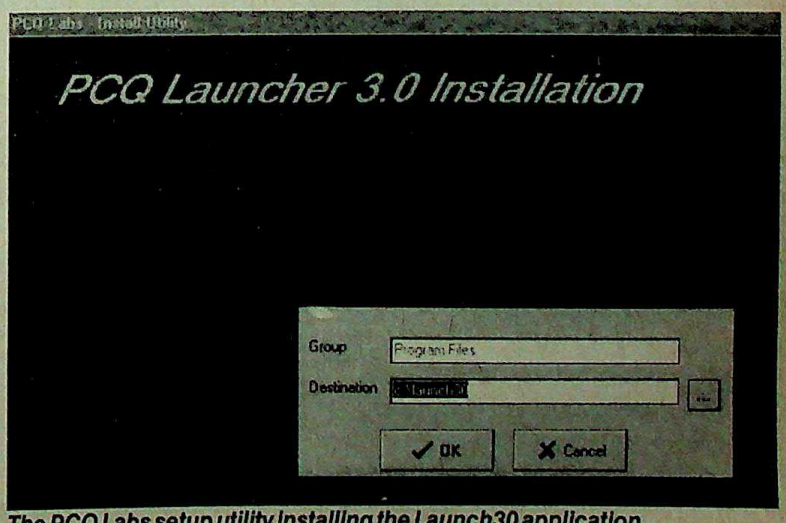
For Delphi developers there is a lot more. By going through the code you can learn how to

1. Create a form with a gradient color background typical of setup applications.
2. Use your application as DDE client, and send commands to a DDE server application. In the setup program we use DDE to create the Windows Program Group and place program items within it.
3. Make direct calls to the BDE using its API
4. See how Object Pascal's exception handling can make your code simple and robust.

In a follow-up to this column I will discuss how write a wizard/expert to create an INI file for the setup program using a simple visual interface. We will then write the setup application and the wizard to create its INI file as Delphi component that you can install on your component palette and freely distribute. Writing the program as a component has a lot of advantages. The component will feature events such as OnStartInstall, OnCopyFile and OnFinishInstall. You can write event handlers for these events to quickly customise the setup program.

The role of the INI file

The setup program takes its instruction from an INI file — PCQSETUP.INI. This must be written and placed in the same directory as Setup. Generally this



The PCQ Labs setup utility installing the Launch30 application

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

means that both the files should be on Disk #1 of your distribution disks.

You will need to understand how to write PCQSETUP.INI. A sample INI file that we used with Setup to install the PCQ Labs Launcher 3.0 (Distributed on the Spring 96 CD-Rom) is presented below. The comments provide the essential explanations.

```
; PCQSETUP.INI - Copyright PCQ Labs
; The name of the INI file must be
PCQSETUP.INI ;-)
;   ---------------------------
;
; GROUPS is mandatory section and is
used to specify File Groups
; A File Group is a group of file that
goes to the same destination
; directory on the target machine.
; There is no restriction on the total
number of file groups. Setup will
; create directories on the target
machine if they don't already exist.
   ; Before you create a sub directory
you need to ensure that it has a
parent; directory. In the example
below the first line will ensure a
directory
; called c:\launch30 exists before you
attempt to create a sub directory
; within it c:\launch30\doc. If you
change the order of the two
; groups the setup program will still
execute correctly. However, if
; you don't have the c:\launch30 group
entry at all, and the target machine
; will not have a directory called
c:\launch30 and so Setup will fail
when
; it attempts to create the directory
c:\launch30\doc!
[GROUPS]
c:\launch30=Program  Files
c:\launch30\doc=Documentaion  Files
; The contents of each File Group is
specified in a separate section
[c:\launch30]
launch.exe=
launch.ini=
; The contents of each File Group is
specified in a separate section
[c:\launch30\doc]
launch.hlp=
; The ProgmanGroup section is used to
create a program group in the
; Program manager. This is not a
mandatory section. However, if it is
; there, it must have a  Name variable
specifying the the title of the
; Program Group. You may have as many
program items as you desire.
; The files that you specify here must
be files that you have installed ;with
one of the file groups. Setup will use
the values assigned to the ;file as
the captions for the program item. The
entries you see here would ; create a
Program Group–PCQ Labs with two
program items. One to start the ;
Launcher and the other to display the
Help file associated with the
;Launcher.
[ProgmanGroup]
Name=PCQ  Labs
launch.exe=The PCQ Labs Launcher 3.0
launch.hlp=Launcher 3.0 Help
; The Misc section is used to specify
the Documentation file and the
; Application name. Setup uses the
application name to display a banner
; on the background form of the setup
program. Delphi developers may
; like to develop this section further
to introduce more features and
; customisation.
[Misc]
Application=PCQ  Launcher 3.0
DocFile=launch.hlp
```

Creating a BDE Alias

You will require an additional section if you were distributing a database application based on the BDE. Such applications generally use an 'alias' that serves as a pointer to the directory on the network where the database resides. The database files are kept separate from other application files and placed on a shared directory of the network.

If the application that you wish to distribute uses an alias you need to place the database file in a separate directory. In other words the database files would form a File Group. Define the alias, that your application internally uses, on the target machine to point at the data files.

Assuming Launcher 3.0 was a database application (It isn't!) we would need the following additional entry in the Groups section,

```
[GROUPS]
.
.
c:\launch30\db=Database  Files

You would need a new section
specifying the database files

[c:\launch30\db]
launch.db
launch.px
.
.
To create a BDE alias, say LAUNCH,
pointing to the database files a
target machine create a sectio
follows.

[BDE]
Alias=LAUNCH
Group=Database  Files
```

The value of the Group variab must match the description ass the database files directory. No do not specify the directory database files in this section. because the user can chang destination directory installation. Setup uses the Group to determines where the grou eventually placed.

Prompting for Disk Changes

The setup program may lac frills of a commercial grade appli but it is no walkover. It ca programmed to prompt a user to a new disk in the drive if you distr your application on multiple disk For this you need to create a Change' section. Within this se you have entries of filenames for a disk change is required.

On startup Setup reads the en in the 'Groups' section and arra them in alphabetical order. It next co files to the target machine starting the first file in the first group. In words, the copying operation g alphabetical order for groups and sequential order for files within a g When you create your distribution first place PCQSETUP.EXE and SETUP.INI on disk #1 and then placing the files on your disk in same sequence as setup is going to them. Every time you need a new you will have to note the name of that place first on the new disk. filenames will need to be placed Disk Change section. As an exam

```
[Disk Change]
customer.db=2
pim.hlp=3
```

While copying files from the disk when Setup detects that cus mer.db is not on the current disk prompt the user to insert Disk #2 the floppy drive. Similarly, when not find the file pim.hlp on Disk will prompt the user for Disk #3

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

To know why Prakashak, Sonata's language DTP software, is the best, talk to 4500 users in Hindi

Marathi, Malayalam, Tamil, Telugu,

Gujarati, Bengali...

Or just talk to us. Either way, we or our 4500 users, will tell you why our language DTP software, Prakashak, is India's best-selling package.

Because Prakashak offers you features that no other language DTP software can match.

- Prakashak supports all page layout and graphic software, such as PageMaker, Ventura, CorelDRAW, WordPerfect, MS Word, Adobe Illustrator, FreeHand and QuarkExpress.
- It supports spreadsheet and database packages like Excel and FoxPro under Windows.
- Available in 11 Indian languages namely **Assamese, Bengali, Gujarati, Gurumukhi, Hindi, Kannada, Malayalam, Marathi, Oriya, Telugu, Tamil, and Russian** in a variety of typefaces.
- Compatible with DOS, WINDOWS, LAN and MAC's.

Which is why most of the newspaper publishers, offset printers and DTP centres prefer Prakashak language software for DTP.

Price Rs.12,500/-

Dealers enquiries solicited

PRAKASHAK
FROM
SONATA

Sonata Software Ltd.
Regd Office : APS Trust Building,
Basavanagudi Bangalore 560 019
Ph: 6610862 / 6611731

Office : **Bangalore** : 5589722, 5580116 **Bombay** : 4923991, 4921931 **Calcutta** : 2474119, 2477117 **Delhi** : 5718749, 5717432 **Madras** : 8280552
Pune : 443438

Authorised Dealers: Spectra Systems 434893 **Madurai:** Microbase 31651 **Trichy:** Bits & Bytes 33766 **Madras:** PC India 8267029, Dynamic 8272749 **Tirunelveli:** Jayarajnadar 73112 **Bangalore:** Lancom 645052 **Mangalore:** PALS: 34551 **Mysore** : Raman Computers 27705 **Hubli:** Ubhayakar & Sons 52291 **Trivandrum:** Digital Info. Sys. 67834 **Calicut:** Hi Tech Sys. 66148 **Tirupati:** Temple Comp. 21387 **Vijaywada:** Unics 66936 **Vishakapatnam:** Micronet 546424 **Hyderabad:** Krishna Sys. 274006 **Kurnool:** Helpline Comp. Ser. 24190 **Calcutta** : Trista Corp. 2421508, Eastern Sys. 2486444, Genelite 262065 **Guwahati** Delta Sys. 545847, S.M. Computer 522156 **Silchar:** Microdata 31294 **Siliguri:** Logic Fusion 20597 **Shillong:** PCDS 223248 **Dhanbad** : Capricon Assoc. 307291 **Raipur:** National Comp. 26827 **Varanasi:** Varanasi Comp. 351133 **Allahabad:** Technofab Corp. 609192 **Dehradun:** NK Systems 22948 **Kanpur:** Swati Datatech 210130 **Ghaziabad:** **Jaipur:** TM Systems 518054 **Chandigarh:** PC Point 601699 **Delhi:** Challenger Comp. 6424879, Mensa Computers 5453736.

SISTA SAATCHI & SAATCHI - 005/95 BL

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tally 5.0

The only accounting software you can use on OS/2, Windows, Windows 95 or Power Mac. Or on all of them.

Tally 5.0 is the first accounting software in the world that comes in four widely-used platforms: OS/2 Warp, Windows 3.1, Windows 95 and Power Mac. All in one package.

So, you can run Tally 5.0 on any platform you want.

Or on more than one platform. Simultaneously.

For instance, you can view your balance sheet on your Macintosh while your accountant is busy keying in the day's vouchers on Windows 3.1.

But that's not all. Get Tally 5.0 and you'll discover why it is the complete business solution that's real value for money.

FINANCIAL ACCOUNTING

Tally 5.0 updates all your financial statements and books of accounts. Instantly.

With Tally 5.0, you can take a look at your balance sheet at the press of a key.

And also track bills-receivables and payables, and even advances and on-account transactions.

As a result, you can keep yourself completely updated on the financial status of your company at the touch of a key.

INVOICING AND VOUCHER PRINTING

Tally 5.0 gives you all the standard accounting vouchers as well as the scope to customise your vouchers.

You don't need to do away with your existing invoices or vouchers when you use Tally 5.0. You can generate invoices and vouchers as per your existing format. And even use pre-printed stationery to print invoices, vouchers and cheques.

INVENTORY ACCOUNTING

Tally 5.0 gives you the freedom to value your inventory as per your requirements.

To start with, you can choose from an array of cost or market valuation methods. Like LIFO-both annual and perpetual, FIFO, weighted average, last purchase / sale price and standard cost.

DECLARED BEST ACCOUNTING PACKAGE BY PC QUEST IN '94, '95

You can use Tally 5.0 to select methods to maximise or minimise your inventory value and give you comparative charts using one or more valuation charts.

Tally 5.0 also supports the concept of batches or lots, consignment-wise costs and consumption.

You can easily take stock of any item in more than one unit of measure as well as complex units of measure.

What's more, Tally 5.0 gives you the flexibility to integrate your inventory with accounts. Or maintain it separately.

FINANCE MANAGEMENT

You can use Tally 5.0 to obtain accurate details of cash flow statements at any point in time. You can examine inflows and outflows to be in total control of your cash flow.

Further, you can analyse data with the help of graphs.

With Tally 5.0, you can allocate a revenue or non-revenue transaction to one or more cost centres. At the same time.

To help you take decisions faster, you can refer to the position-at-a-glance statement on a single sheet.

FLEXIBLE MULTI-YEAR REPORTS

Tally 5.0 helps you view information within a financial year or for any period determined by you. For example, if you want the sales trend over the 3 years, you get it.

If you want a report the start of a project completion date, you

MULTI-COMPANY ACCOUNTING

Tally 5.0 lets you information across number of compa Both individually a a consolidated basis.

You can com or decombine compa at any time witho impact on the re your information.

You can even ma accounts for diffe companies. And balance sheets of tw more companies in same report.

So get Tally 5.0 And have the world's complete business so at your fingertips.

To get in touch with your nearest Tally Shop, call

Bangalore:
Tel: 080-221 1477.
Fax: 080-221 8647.

Bombay:
Tel: 022-631 6416.
Fax: 022-627 0627.

Delhi:
Tel: 011-622 8498.
Fax: 011-621 8197.

Tally
The Complete Business Solution
... for prosperous accounting

Created by : Peutronics P
331-336, Raheja Arcade,
Koramangala, Bangalore
Tel: 080-553 3156 Fax: 08
Email: mktg@tally.ernet.

OS/2, Windows 3.1, Windows 95 and Power Macintosh are the registered trademarks of the respective co

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

is all we have for non Delphi ers. Get your copy of TUP.EXE, write PCQSET- to customise the setup for plications and smile.
lphi developers, you have a lot rning!

t Last!

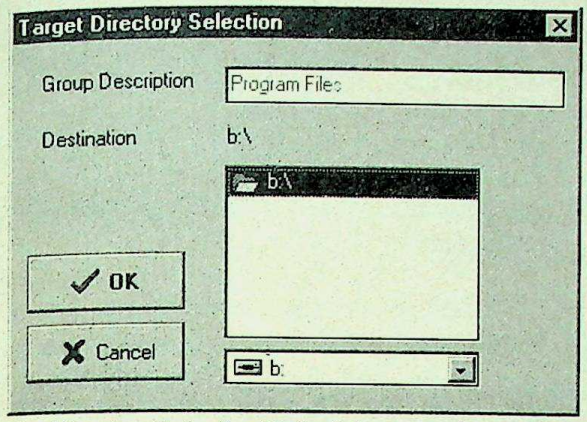
e a look at the screen shots of up program going through tall process. The program uses of four forms.
blue background form with a dient color, typical of a setup This is the main form of the tion and has the bulk of the

dialog that lets you change the tion of the File Groups.
dialog to let you visually select tination directory.
progress form that gives a visual of the file copying operation.
elopers with access to PCQ Online k up the entire project used to PCQSETUP.EXE from the DEV d PCQ Online. Those who do not cess can follow me as I create the

a new directory e.g.
\philsetup
Delphi and create a new project. ll first create the 'TargetDirDlg' at serves as a dialog to let the ecify the destination for each file

```
Directory Dialog
e properties of Form1 as follows
eIcons = []
eStyle = bsNone
ion = 'Installation Target
ory'
Name = 'MS Sans Serif'
tion = poScreenCenter
e TargetDirDlg
e project. When prompted for
e name of the unit change to
\philsetup and specify
.pas
```

two Label components on the nd set their captions to 'Group' stination'. Adjacent to them, m in the screen shot, place components and set their es as follows.
the Edit component adjacent Label captioned Group



The Directory Selection Dialog lets a user change the target directory for a file group

```
Name = GroupNameEdit
Enabled  = False
```

For the Edit component adjacent to the label captioned Destination

```
Name = DestEdit
```

Place a speed button to the right of the 'DestEdit' component and set its properties as follows

```
Caption = '...'
```

Place two BitBtn components on the form to serve as the OK and Cancle buttons.

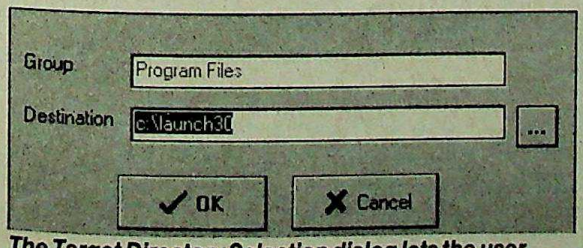
```
TabOrder = 2
Kind = bkOK

TabOrder = 3
Kind = bkCancel
```

Save your work and add a new blank form to the project. We will convert the new form into a directory selection dialog.

Directory Selection Dialog

Take a look at the screen shot of the Directory Selection dialog. First set the form properties as follows

```
BorderStyle = bsDialog
Caption = 'Target Directory Selection'
```



The Target Directory Selection dialog lets the user install different groups of files to different directories on the target machine.

```
Name = DirSelDlg
Position = poScreenCenter
```

Place two label components on it captioned 'Group Description' and 'Destination'. Next to the label component captioned 'Group Description' place an edit component and set its Name property to 'GpDescriptEdit'.

Add a third label component and place it above the Directory selection dialog. Set its Name property to 'CurDirLabel'

Place a Directory List Box and set its properties as follows

```
Name = DirectoryListBox1
DirLabel = CurDirLabel.
```

Below the Directory List Box place a DriveComboBox component and set its DirList property to DirectoryListBox1

Place two BitBtns. Set the Kind property of one to bkOK and the other to bkCancel. Having done that change the Kind property of the Cancel button to bkCustom. This is a trick to get the cancel glyph on ca custom button. Write an event handler for the OnClick event of this button as follows

```
procedure  TTargetDirDlg.BitBtn2Click-
(Sender: TObject);
begin
if MessageDlg('Cancel  Installation?',
mtConfirmation,
     [mbYes, mbNo], 0) = mrYes then
     ModalResult := mrCancel;
end;
```

In Setup the Directory List Box maybe called by a click on the DestEdit speed button of the Target Directory dialog. We placed this speed button on the right of Destination Edit component with the caption '...'. Write the following event handler for the OnClick event of the speed button.

```
procedure  TTargetDirDlg.SpeedButton-
  1Click(Sender:  TObject);
  begin
    with DirSelDlg do
    begin
      GpDescriptEdit.Text :=
GroupNameEdit.Text;
      GpDescriptEdit.Enabled := False;
      ShowModal;
      if ModalResult = mrOk then
        DestEdit.Text :=
DirectoryListBox1.Directory;
```

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
  end;
end;
```

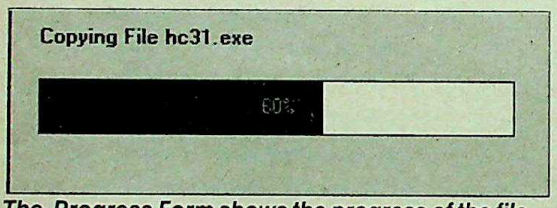
Save your work. Name the new unit as DirSel.pas

Creating the Progress Form

The Progress Form has a gauge to give a visual indication of the progress of the file copying operation. Set the properties of the form as below.

```
BorderIcons = []
BorderStyle = bsNone
Caption = 'Installation Progress'
Name = ProgressForm
OnKeyDown = FormKeyDown
```

The Gauge component on the Samples page of your palette is actually a VBX control with a Delphi wrapper. Place one on the Progress form and set its properties as follows



The Progress Form shows the progress of the file copying operation.

```
Color = clBlue
ForeColor = clBlue
ParentColor = False
Progress = 0
```

To display the name of the file being currenly copied we use a Label component with the following properties.

```
Caption = 'Message'
Name = MessageLabel
```

Save your work. Name the new unit as progress.pas.

The Main (Background) Form

The main form has the bulk of the code which should be of interest to most Delphi developers.

Open a new form and set its properties as follows

```
object MainForm: TMainForm
BorderIcons = []
Caption = 'PCQ Labs - Install Utility'
Name = MainForm
WindowState = wsMaximized
```

Place a label component on the form and set its properties as follows

```
Caption = 'PCQ Labs'
Font.Color = clAqua
Font.Height = -32
Font.Name = 'MS Sans Serif'
Font.Style = [fsBold, fsItalic]
Name = Banner
ParentFont = False
Transparent = True
```

There are no other components on the main form but within it there is a lot of code. The code listing for Main.pas is given. If you do not have access to PCQ Online you will have to key it in.

Main.pas uses the fmxutils.pas which ships with Delphi. You would need to include this unit in your project. We inserted the following two lines of code in the CopyFile procedure.

```
if Copy(Destination,
Length(Destination), 1) = '\' then
    Delete(Destination,
  Length(Destination), 1);
```

These two lines were inserted after the first line folllowing the begin. We advise you to do the same.

Debug and compile your code and you have your own setup utility. If you use it as a starting point to build upon you could develop something more professional. If you do remember to share it with other PCQ readers.

Finally, most of you would have liked more explanations on the coding. Unfortunately, editorial space is a constraint. However, if you have access to PCQ Online, feel free to discuss any part of the code in the COL forum. We will provide you with all the help possible.

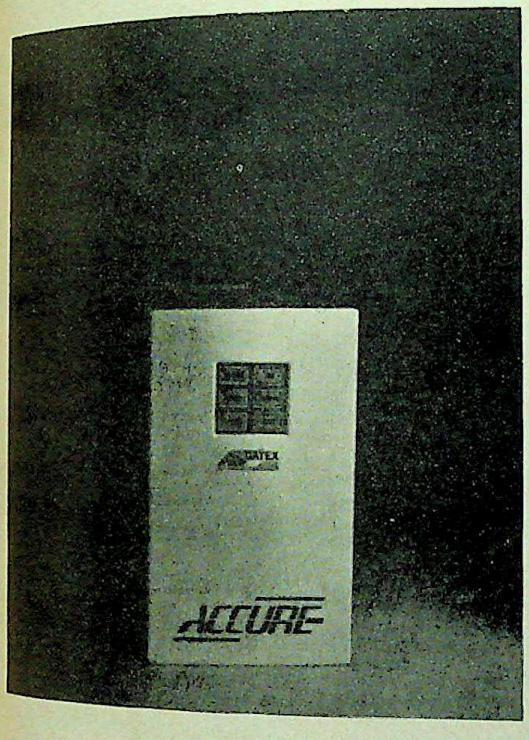
```
unit Main;

interface

uses
  SysUtils, WinTypes, WinProcs,
Messages, Classes, Graphics, Controls,
  Forms, Dialogs, StdCtrls, IniFiles;

 const
    PgmSection = 'GROUPS';

type
  TGroup = class(TObject)
    Description: String;
    Destination: TFileName;
    FileList: TStringList;
  private
  public
    constructor Create(Descript:
String);
    destructor Destroy;
  end;

type
  TMainForm = class(TForm)
    Banner: TLabel;
    procedure FormPaint(Sender:
TObject);
    procedure FormActivate(Sender:
TObject);
    procedure FormCreate(Sender:
TObject);
    procedure FormDestroy(Sender:
TObject);
  private
    IniFileName, SourcePath:
TFileName;
    Groups,
    SectionItems: TStringList;
    TotFiles, FileCount: Integer;
    IniFile: TIniFile;
    procedure Execute;
    function
GetDestination(InstalledFile:
TFileName): TFileName;
    procedure CreatePgmGroups(
TIniFile);
    procedure CreateAlias;
    procedure ViewDoc;
    procedure InstallFile(File:
Destination: TFileName);
    procedure MissingFile(File:
Destination: TFileName; var Skip:
TFileName);
  public
  end;

var
  MainForm: TMainForm;

implementation

uses
  TgtDir, Progress, FmxUtils,
DbiProcs, DbiTypes, DbiErrs;
{$R *.DFM}
procedure Wait(WaitFor: LongInt);
var
  WaitStart: LongInt;
begin
  WaitStart := GetTickCount;
  repeat
    Application.ProcessMessages;
  until ((GetTickCount - WaitStart) >
WaitFor);
end;

constructor TGroup.Create(Descript:
String);
begin;
  FileList := TStringList.Create;
  Description := Descript;
end;
```

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ANYONE WHO COMES TO INDIA, LEARNS TO LIVE ONLY ONE WAY -

The Indian way.



ACCURE
the high performance line-interactive UPS
available in 200 VA to 2000 VA ranges

Liberalisation. International Technology. Multinationals. The boom for the Indian markets, is on. But ace global marketers are fast realising that no other theory, study or example works in a country like ours. We set our own rules. And those who adapt to them, become a part of our society. The Mughals did. The British did not. And had to, as we all know, depart.

At a time like this, we at Datex Electronics, strive to combine the best international technologies with Indian conditions. Thus, we designed the **Accure** range of UPS, which works under severe Indian conditions.

Accure:
- works at voltages as low as 150 volts;
- has less than 2 milisecond switchover time.
- is used to frequent voltage fluctuations;
- gives you the options of larger back-ups;
- comes with a 2-year warranty;

All the above features have been tested by IIT, Delhi, under stringent conditions. It is no wonder then, that ICI, DCM Daewoo, EIL, Nokia & a host of other companies trust **Accure**.

All this is because we combine the best technologies to suit Indian conditions. And we go - the Indian way.

For more thought-provoking information, call Sameer or Pawan at 462 1931 or 460 2457. Or contact them at the address below.

DATEX
Datex Electronics Pvt Ltd

T-1512/1 Bhism Pitamah Marg Opp. Sachdeva P T College Defence Colony, New Delhi - 110 003. Fax: 462 1931.
● Bangalore ● Calicut ● Cochin ● Coimbatore ● Trivandrum.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
destructor  TGroup.Destroy;
begin
  FileList.Free;
end;
procedure  TMainForm.FormPaint(Sender:
TObject);
var
 Row, Ht: Word ;
begin
 Ht := (ClientHeight + 255) div 256 ;
 for Row := 0 to 255 do
   with Canvas do begin
     Brush.Color := RGB(0, 0, 255-Row)
;
     FillRect(Rect(0, Row * Ht,
ClientWidth, (Row + 1) * Ht)) ;
   end ;
 end;

procedure
TMainForm.FormActivate(Sender:
TObject);
begin
  try
    Execute;
  finally
    Close;
  end;
end;

procedure  TMainForm.Execute;
var
  Group: TGroup;
  I, J: Integer;
  DestDir: TFileName;
begin
  try
    if not FileExists(SourcePath +
IniFileName)  then
      Exception.Create('INI file ' +
SourcePath + IniFileName + ' not
found!');
    TotFiles := 0;
    FileCount := 0;
     IniFile.ReadSection(PgmSection,
Groups);
    for I := 0 to Groups.Count - 1 do
    begin
      Group :=
TGroup.Create(Groups[I]);
      try
        Group.Description :=
IniFile.ReadString(PgmSection,
Groups[I], '');
        with TargetDirDlg do
        begin
          GroupNameEdit.Text :=
Group.Description;
          DestEdit.Text := Groups[I];
          ShowModal;
          if ModalResult <> mrOK then
            raise
Exception.Create('User  aborted.');
          Group.Destination :=
DestEdit.Text;
          IniFile.ReadSection(Groups[I],
Group.FileList);
          TotFiles := TotFiles +
Group.FileList.Count;
          Groups.Objects[I] := Group;
        end;
      {We free only the most recently
created group here.}
      except
        Group.Free;
        raise;
      end;
    end;
    TargetDirDlg.Close;
    Wait(500);
    {Create the destination
directories. Must do it with the
directories  sorted}
    for I := 0 to Groups.Count - 1 do
      try
        MkDir((Groups.Objects[I] as
TGroup).Destination);
      except
      end;
    {Installation starts now}
    ProgressForm.Show;
    for I := 0 to Groups.Count - 1 do
      for J := 0 to (Groups.Objects[I]
as TGroup).FileList.Count - 1 do
        with ProgressForm do
        begin
          FileCount := FileCount + 1;
          MessageLabel.Caption :=
'Copying File ' +
            (Groups.Objects[I] as
TGroup).FileList[J];
          Wait(500);
          Gauge1.Progress :=
Round((FileCount * 100) / TotFiles);
          InstallFile((Groups.Objects[I]
as  TGroup).FileList[J],
            (Groups.Objects[I] as
TGroup).Destination);
        end;
    ProgressForm.Close;
    {Finished copying files. Set up
program group}
    CreatePgmGroup(IniFile);
    Wait(500);
    CreateAlias;
    ViewDoc;
  except
    On E:Exception do
      MessageDlg('Setup did not finish
installation. ' + E.Message,
mtWarning,
        [mbOk], 0);
  end;
end;
procedure  TMainForm.FormCreate(Sender:
TObject);
var
  AppName: String;
begin
  SourcePath :=
ExtractFilePath(Application.Exe
  IniFileName :=
ExtractFileName(Application.Exe
  IniFileName := Copy(IniFile
pos('.', IniFileName) - 1) + '.
  Groups := TStringList.Create;
  { This will ensure that a pare
directory is created first and t
subdirecotry}
  Groups.Sorted := True;
  SectionItems := TStringList.C
  IniFile :=
TIniFile.Create(SourcePath +
IniFileName);
  AppName :=
IniFile.ReadString('Misc',
'Application', 'ERROR');
  if AppName <> 'ERROR' then
    Banner.Caption := AppName +
Installation';
end;

procedure
TMainForm.FormDestroy(Sender:
TObject);
var
  I: Integer;
begin
  for I := 0 to Groups.Count -
    (Groups.Objects[I] as TGroup
  Groups.Free;
  SectionItems.Free;
  IniFile.Free;
end;

procedure  TMainForm.CreatePgmGro
var
  GroupName: String;
  DdeClientConv: TDdeClientConv;
  MacroLines: TStringList;
  I: Integer;
  Dest: TFileName;
begin
  {Determine if we have the rig
entries in the Ini file}
  GroupName :=
IniFile.ReadString('ProgmanGrou
'Name', 'ERROR');
  if GroupName = 'ERROR' then
    Exit;
  {Check with the user - Allow
her to change the Group name}
  if not InputQuery('Program Gro
'Create group named', GroupName
    Exit;
  {Ready to go}
  DdeClientConv :=
TDdeClientConv.Create(Owner);
  MacroLines := TStringList.Cre
  try
    DdeClientConv.SetLink('PROG
'');
```

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
MacroLines.Add('[CreateGroup(' +
Name + ')]');
IniFile.ReadSection('ProgmanGroup',
nItems);
or I := 0 to SectionItems.Count -

egin
{Detect the destination of this

Dest :=
stination(SectionItems[I]);
if Dest <> '' then
egin
 Dest := Dest + '\' +
nItems[I];
 MacroLines.Add('[AddItem(' +
+ ',' +
IniFile.ReadString('ProgmanGroup',
nItems[I], '') + ')]');
end;
end;
MacroLines.Add('[ExitProgMan(1)]');
ClientConv.ExecuteMacroLines(MacroLines,
);
nally
MacroLines.Free;
ieClientConv.Free;
;


rm.GetDestination(InstalledFile:
Name): TFileName;

: Integer;
n
I := '';
I := 0 to Groups.Count - 1 do
or J := 0 to (Groups.Objects[I] as
up).FileList.Count - 1 do
if CompareText((Groups.Objects[I]
Group).FileList[J], InstalledFile)
then
 Result := (Groups.Objects[I] as
up).Destination;


ure TMainForm.CreateAlias;

tus: DBIResult;
ias: Array [0..29] of char;
rams: Array [0..255] of char;
s: String;
Description: String;
ription of the group with
base files}
Dir: TFileName; {Eventual
ation of the Database files}
: Integer;
n
ermine if there is a valid BDE
ld entry}
as := IniFile.ReadString('BDE',
', 'ERROR');
 if Alias = 'ERROR' then
   Exit;
 DbfDescription :=
IniFile.ReadString('BDE', 'Group',
'ERROR');
 if DbfDescription = 'ERROR' then
   Exit;
 for I := 0 to Groups.Count - 1 do
   if (Groups.Objects[I] as
TGroup).Description = DbfDescription
then
   begin
     DestDir := (Groups.Objects[I]
as TGroup).Destination;
     Break;
   end;
 {In case there is no match for the
description in the Ini file}
 if I = Groups.Count then
   Exit;
 Status := DbiInit(nil);
 if Status <> 0 then
   if Status <> DBIERR_MULTIPLEINIT
then
   begin
     MessageDlg('Could not
initialize database to create alias',
mtError,
       [mbOk], 0);
     Exit;
   end;
 StrPCopy(zAlias, Alias);
 StrPCopy(zParams, 'PATH:' +
DestDir);
 Status := DbiAddAlias (nil, zAlias,
nil, zParams, TRUE);
 if Status <> DBIERR_NONE then
   MessageDlg('An error occured
while creating the Alias ' + Alias,
mtError, [mbOk], 0)
 else
   MessageDlg('Created BDE Alias ' +
Alias, mtInformation, [mbOk], 0);
end;

procedure  TMainForm.ViewDoc;
var
 DocFile: String;
 DestDir: TFileName;
begin
 DocFile :=
IniFile.ReadString('Misc', 'DocFile',
'ERROR');
 if DocFile = 'ERROR' then
   Exit;
 if MessageDlg('Would you like to
view the documentation file?',
mtConfirmation,
   [mbYes, mbNo], 0) = mrYes then
 begin
   DestDir :=
GetDestination(DocFile);
   if DestDir <> '' then
     ExecuteFile(DocFile, '',
DestDir, SW_SHOWNORMAL);
   end;
end;

procedure
TMainForm.InstallFile(FileName,
Destination: TFileName);
begin
 try
   CopyFile(SourcePath + FileName,
Destination);
 except
   on EFOpenError do
     MissingFile(FileName,
Destination, SourcePath);
 end;
end;

procedure
TMainForm.MissingFile(FileName,
Destination: TFileName; var Source:
TFileName);
var
 DiskNo: LongInt;
begin
 {Check for planned disk changes
here}
 DiskNo := IniFile.ReadInteger('Disk
Change', FileName, 0);
 if DiskNo <> 0 then
 begin
   if not InputQuery('Setup requires
Disk #' + IntToStr(DiskNo),
'SourcePath', Source) then
     raise Exception.Create('User
aborted.');
   if Copy(Source, Length(Source), 1)
<> '\' then
     Source := Source + '\';
   InstallFile(FileName,
Destination);
   Exit;
 end ;
 {No disk change was planned here}
 if InputQuery('File ' + Source +
FileName + ' is missing. Retry?',
'Source',
   Source) then
 begin
   if Copy(Source, Length(Source), 1)
<> '\' then
     Source := Source + '\';
   InstallFile(FileName,
Destination);
 end
 else
   raise Exception.Create('Error
reading file ' + FileName);
end;
end.
```

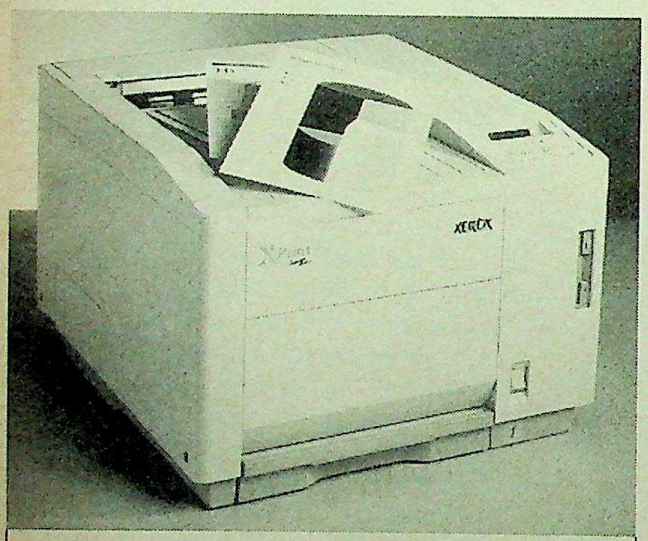
VK Thakur is a PC Quest contributing editor and a Delhi-based database and information consultant. You can reach him at kuku.thak@axcess.net.in or as THAK on PCQ Online.

CC-0. Jangamwadi Math Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

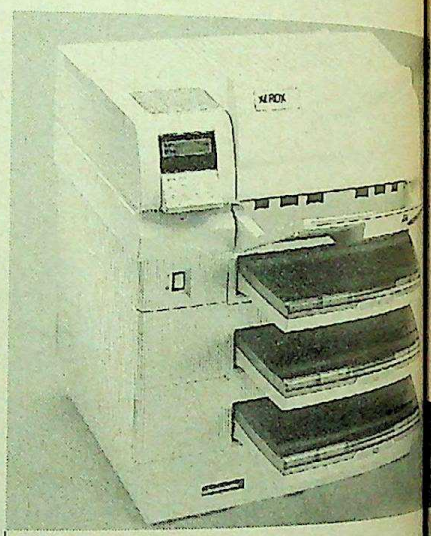
Business, they say, is about making the right impression.

Modi Xerox printers show you how.



Xerox 4900 Opal

- High quality colour output • 1200 x 300 dpi resolution
- IBM PC & Macintosh connectivity.
- Media Server Kit – for printing without a computer



Xerox 4520.

- A3 size capability • 20 pages per minute
- 3 paper trays • Networking capability
- Hard disk option (125 MB)

For more information, do send this coupon to : Modi Xerox Limited, ODS Business Division, 8th Floor, Hemkunt Tower, 98, Nehru Place, New Delhi

Name : _____ Designation : _____

Company : _____ Address : _____

_____ Tel.: _____ Fax : _____

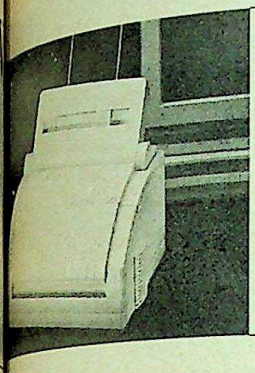
COPIERS ■ PRINTERS ■ FAX MACHI

For more information on the Modi Xerox range of printers, please contact : **Customer Business Units : • North:** Modi Xerox Limited, Jeet... 33, Community Centre, New Friends Colony, New Delhi-110065, Tel.: 6834294, 6828750, 6828760, Tlx: (031)66745, Fax: (011) 6... **Central :** Modi Xerox Limited, B1/1, Kursi Road, Mahanagar Extension, Lucknow-226006, Tel.: 70551, 75781, Tlx: (0555) 2569, Fax: ... **• West :** Modi Xerox Limited, Nyloc House, 1st floor, 254-D-2, Dr. Annie Besant Road, Worli, Bombay-400025, Tel.: 4940936, Fax: ...

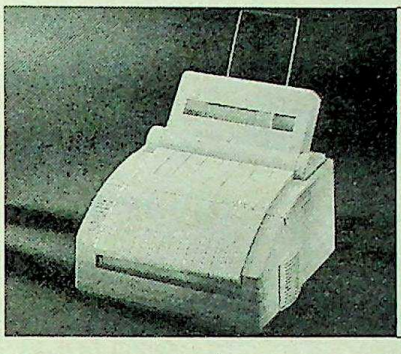
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Presenting the new line of printers from Modi Xerox.

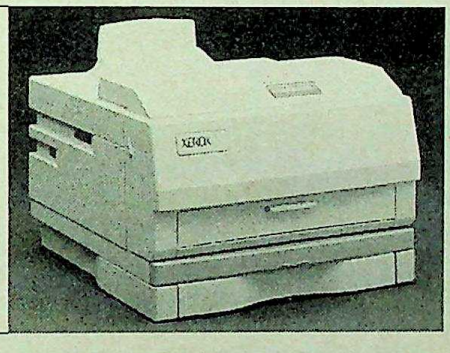


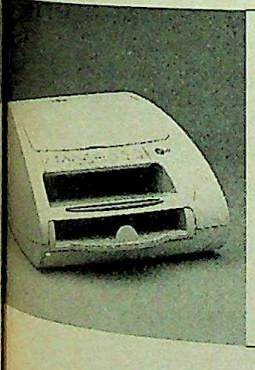
Modi Xerox
6300 Laser printer
- 6 ppm speed
- Straight paper path
- Macintosh connectivity option
- Economode and Remote Printer Console



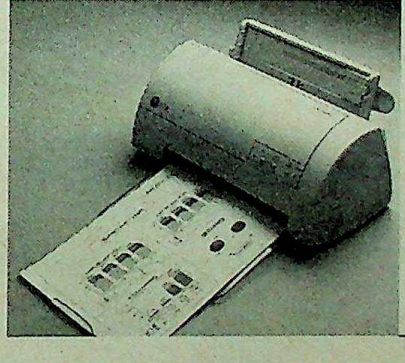
Modi Xerox
6600 Laser printer
- 6 ppm speed
- Macintosh connectivity
- Economode and Remote Printer Console
- 600 x 600 dpi
- Data compression
- PostScript option

Xerox 4510
- 10 pages per minute
- High resolution (600 dpi)
- Wide range of fonts
- Network connectivity options





Modi Xerox
JP-450 Colour Inkjet Printer
- Quality colour printing
- High print speed (5 ppm)
- High resolution
- Tractor Feed option for continuous stationery



Modi Xerox
JP-170 Inkjet Printer
- Small footprint
- Colour upgrade facility
- 200 CPS print speed
- Serial Port option

THE DOCUMENT COMPANY

MODI XEROX

Xerox, The Document Company Xerox/Rank Xerox and the stylised X are the registered trademarks of Xerox Corporation, U.S.A. and Rank Xerox Ltd., U.K.

OFFICE SUPPLIES ■ BINDERS ■ LAMINATORS

Central : Modi Xerox Limited, Hasubhai Chambers, 5th floor, Near Town Hall, Ellis Bridge, Ahmedabad-380006, Tel.: 402838, 466413, Tlx: (0121) 6194, (079) 427639. • East: Modi Xerox Limited, 107/1, Park Street, 3rd floor, Calcutta-700016, Tel.: 290348, 296349, Tlx: 4467, Fax: (033) 297709 • West: Modi Xerox Limited, VDS House, 26, Cathedral Road, Madras-600086, Tel.: 8276705 (7 lines), Tlx: (041) 8030, Fax:(044) 8257308 • South : Modi Xerox Limited, Akshaya Commercial Complex, 26, Victoria Road, Bangalore-560047, Tel.: 569143, 5543306, Tlx: (0845) 2971, Fax: (080) 5543653.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TYIN 2000

Despite its 2,400 bps data speed, this is an innovative and feature-rich card

When the world has changed over to 28,800 kbps modems or to 14,400 bps, the TYIN has a max speed of 2,400 bps for data. In terms of the sound board, while a 16-bit stereo card is now standard with most users preferring 32-bit card, the TYIN provides only an 8-bit card with a single channel (mono). But I guess that's the only flaw in the product.

This being the year of the home and SOHO products, the TYIN is great in that range. Imagine a single board that takes care of data, fax, voice and sound.

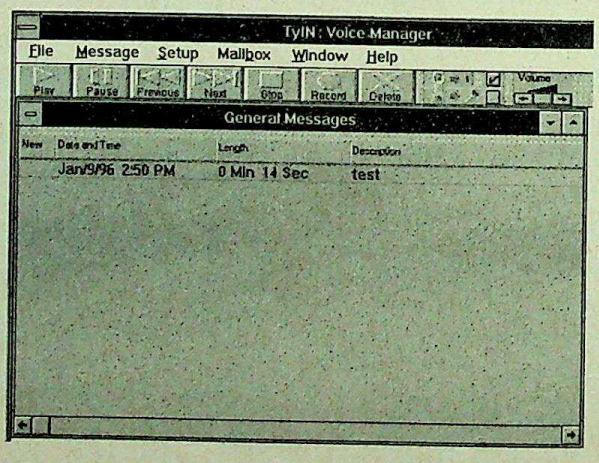
I installed the card easily. It came with a program called Advise that tells you what ports and IRQs are free and then draws a diagram showing the jumpers to be changed. After that it's simple—the rest of the software installs from Windows and a background program needs to be loaded to get things working.

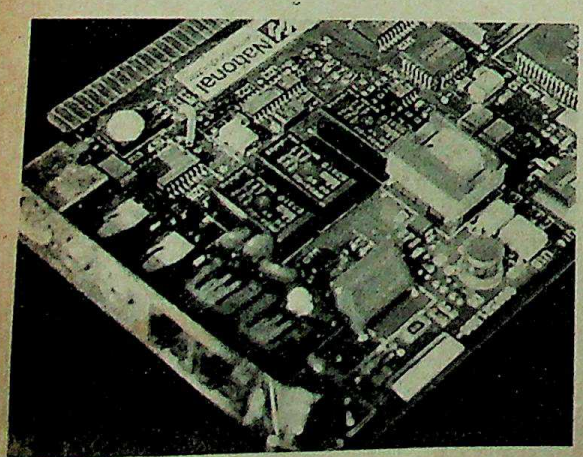
Once inside and configured, it works quite easily. And as the TYIN has so many features, I shall talk about each one separately.

As a data modem, it worked pretty well and I managed to get good connects and throughput at most BBSes. Also I managed good connects to GPSS/INET and VSNL. It did give trouble connecting to a few modems, where it always tried to connect as a fax. Even disabling the FAX mode (+FCLASS=0) had no effect.

But overall as a 2.4kbps modem it behaved well. I didn't get disconnected by the beep and most file transfers were at a good rate of 257 cps for zip files and higher rates for text files.

As a fax device, the software bundled with the TYIN is easy to install and use and handles most fax tasks very well. You can schedule faxes, maintain an address book and create cover pages. It even has a background scheduler; to use that, you must load the TSR before starting Windows, not from a DOS session under Windows. The rest is simple as in most other Windows-based fax programs. This one also creates a new print device and all you have to do is select that and print.





The TYIN has some great voice features making it nice digital answering machine. It's only a single sound channel (mono), but the clarity and compression achieved are far superior to most mechanical answering machines. I created a welcome message which was at least 40 seconds long but turned out to be less than 9kB in size.

It's easy to set up the TYIN to behave like a fax/data/voice switch. All incoming calls are checked for type and the appropriate action is taken. I didn't try this option out as I already have a physical voice/data switch.

As the TYIN is based on a digital signal processor (DSP), it also acts as an ADlib/Creative compatible sound board. It's single-channel, but that's not bad. Another goody packed away on the disks is a neat shareware program called GOLDWAVE, that lets you manipulate .WAV files.

A very interesting feature mentioned in the TYIN documentation is DPA, a proprietary method by which two TYINs can communicate with each other and transfer documents, including sound files, but as fax, at speeds of 9600 bps. We had only a single modem and not a pair, so this feature could not be tested.

The TYIN also has a scanner port which supports the Logitech handyscan products. So overall, it's a complete communications solution.

Kishore Bhargava (kishore@unv.ernet.in) is a technology consultant in New Delhi.

THE SPECS

PRODUCT: TYIN 2000 DSP-based internal card.

TYPE: Data/Fax/Voice/Business Audio with Scanner port.

SOFTWARE: Two disks with Windows based software. Extras include ADVISE—helps you about free IRQs and COM ports and GOLDWAVE—a shareware program to edit WAV files.

PRICE: Rs 6,990

SUMMARY: This internal PC card modem, digital answering machine, sound card and fax device all rolled into one. Though a little behind the times at 2,400 bps, this is a feature-rich device that's good value.

MANUFACTURER: National Semiconductors, USA

VENDOR: Telexcell Information Systems Ltd, Yusuf Sarai, 3 Park Extension, New Delhi 110016. Tel: 11-661269, 6964070 Fax: 6852081

Reader Query Service #E0327

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Who says you cannot please everybody ?

... at FUTECH, we do !

Our Software Analysts have designed just the package to make this possible. **FUTURE** is a tailor-made software designed for various categories of people. FUTURE gives you reports on daily books, final accounts, individual branch information etc. FUTURE also gives you exhaustive and comprehensive reports specific to each individual department. FUTURE requires only 1.5 MB of disk space for installation. It has an easily navigatable menu system for user-wise selection of its features. FUTURE also has a built- in help screen and an on line updatation system.

This unique Accounting Software is packed with several user friendly features :

* MOUSE INTERPHASE - This unique option gives flexibility to move the cursor within various fields.
* BRANCH ACCOUNTING - **FUTURE** is an efficient multi-branch accounting software with the branch-wise inventory for networking environment.
* REPORTS - It gives varoius MIS reports i.e. cost reports, cashflow/fundflow statements, final accounts, stock reports, zoom reports etc.
* GRAPHICS - It offers a vivid screen presentation facility displaying an assortment of bar charts, double bar charts, line charts and pie charts.

OTHER PACKAGES:
PERSONAL ACCOUNTING SYSTEM . FACTORY MAMAGEMENT SYSTEM . EXCISE MANAGEMENT SYSTEM
TELEPHONE MANAGEMENT SYSTEM . PORTFOLIO MANAGEMENT SYSTEM . SHARE ACCOUNTING SYSTEM
EXPORT MANAGEMENT SYSTEM . INSURANCE MANAGEMENT SYSTEM . CLEARING AGENT SYSTEM
VEHICLE DISTRIBUTION SYSTEM . PAYROLL MANAGEMENT SYSTEM

DIFFERENT STROKES

FUTECH
Computers (P) Ltd.

Regd. Off. : AF-4, New Empire Indl. Estate, Kondivita Rd., J.B.Nagar, Andheri (E), Bombay-400 059. Tel/Fax : 821 4060, 821 7936.
E-Mail Add : mahim. futechm @ axcess.net. in Tel/Fax : 445 3438, 445 3332, 444 0072.

DEALERSHIP INQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PROTECTOR PLUS ver 5.0

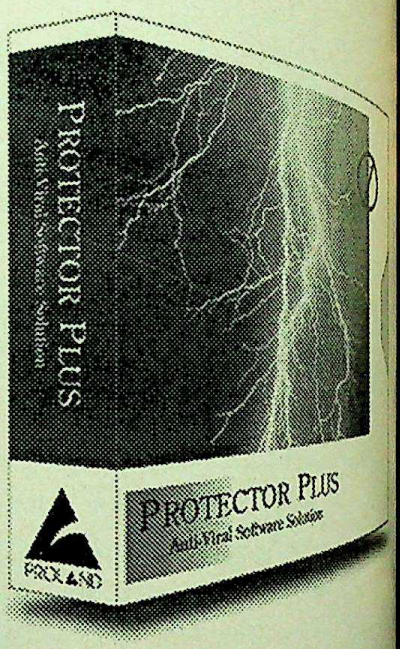
Anti-viral Software Solution

Compatible with:

- Windows 95
- Windows 3.1
- MS-DOS
- Novell-DOS
- OS/2

Introducing **Protector Plus ver 5.0**. The anti-viral software solution for stand-alone PCs. Its installation immunises the system against virus infiltration. Unlike other products in the anti-virus category that largely depend on a scan routine to detect the presence of virus, **Protector Plus** has on-line virus prevention system working round-the-clock.

- All types of boot viruses—known or unknown are automatically eliminated. Boot sector and partition table can be rebuilt.
- Monitors system for viral-like activity, preventing new file viruses from entering the system.
- Can detect changes in status of files and reconstruct them to their original state.
- Scans all files accessed, through any operation—read, write, copy, install, download, unzip, execute, etc...
- Select directories or entire drives can be scanned automatically at pre-scheduled intervals.
- Extensive and exhaustive reports on viral activity and scan results.



Anti-Viral Software Solution

PROLAND

Write, call or fax us for further information on this exciting new anti-viral software

PROLAND SOFTWARE PVT. LTD.,
19, Gangadhar Chetty Road, Bangalore-560 042
Phone: (080) 570033, 5511091 Fax: (080) 5511091
E-mail: subbu.proland@axcess.net.in

WE PRODUCE INTELLIGENT SOLUTIONS

Protector Plus For NetWare
Your Future Proof Solution to virus problems
yes It runs with NetWare

Distributors:
ADIT MICROSYS (P) Ltd., **Ahmedabad** Tel: 079-408045, Telefax: 6425256
ANSI SYSTEMS (India) Pvt. Ltd., **New Delhi** Tel: 011-6863287, 6854196 Telefax: 6968663

Dealers:
Ahmedabad: Manan Enterprises Tel: 490338, Fax: 493-406; Bhavi Electromech, Telefax: 6633234 **Bombay**: Software Consultancy Group, Tel: 022-4301175/4302072, Fax: 4224912, E-Mail: bombay.scg@axcess.net.in **Coimbatore**: D-Tech Systems, Tel: 0422-212328 **New Delhi**: R.R. Computers, Tel:7510479 Astra Infotech, Tel: 6222191, Fax: 6447252 **Goa**: Jay Ka **Ernakulam**: Spiegel, Tel: 348202 **Gangtok**: Sikkim Computer Services (P) Ltd., Tel: 03592-22279, Fax: 22543 Enterprises Tel: 0832-736262/3 **Hubli**: Tolas Electronics, Tel: 65 227 **Hyderabad**: Susha Technologies Tel: 391954, Fax: 243634; **Jamshedpur**: Engineers & Consultants, Tel: 0657-29655, Fax: 26450 **Kanpur**: Jyothi Electro-Mech, Tel: 310811 **Kochi**: Spiegel, Tel: 0484-348202, Fax: 370136 **Ludhiana**: Litratim Microspecialities, Tel: 0161-456891 455860 **Madras**: Software Consultancy Group, Tel: 044-4340942, 4342938 Telefax: 4348912 **Nagpur**: Datacode Computer System, Tel: 221128, Fax: 236398 **Poona**: Link Software & Systems (P) Ltd., Tel: 335988/349342, Fax: 212-365694. **Punjab**: Rihal Computer Services, Tel: 01882-26294, 22385 **Rajkot**: Softrak Computer Consultancy Tel: 48840 **Secunderabad**: Software Consultancy Group, Tel: 816216, 817075, 867039, Fax: 817075 **Trivandrum**: D.G Computer Systems Pvt. Ltd., Tel: 471-62094

DEALERSHIP ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Nova Modem 144

A PCMCIA voice and data modem for notebooks

THE SPECS

PRODUCT: Novalink 14.4 cellular and standard data/fax/voice modem.

FEATURES: PCMCIA type II card, Cellular support (MNP10), V32bis 14.4K. Fax upto 14.4K. NovaMail software.

SUMMARY: Nice multimedia voice/fax mail with pager support. Mail gateways to MS Mail and cc:mail included.

DEVELOPER: NovaLink Technologies Inc, Suite, 208, 48511 Warm Springs Boulevard, Fremont CA 94539 Tel: 510-2499777 Fax: 510-9666

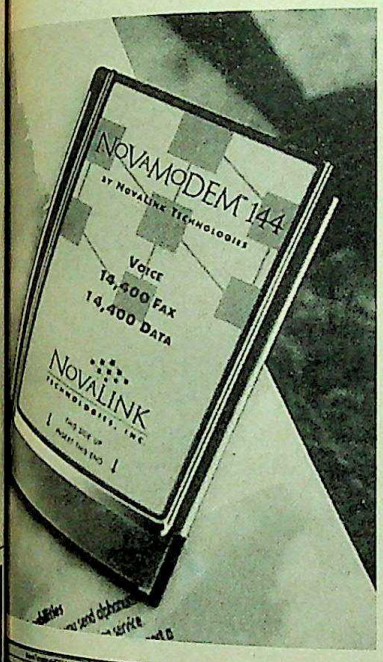
VENDOR:

RQS #E0341

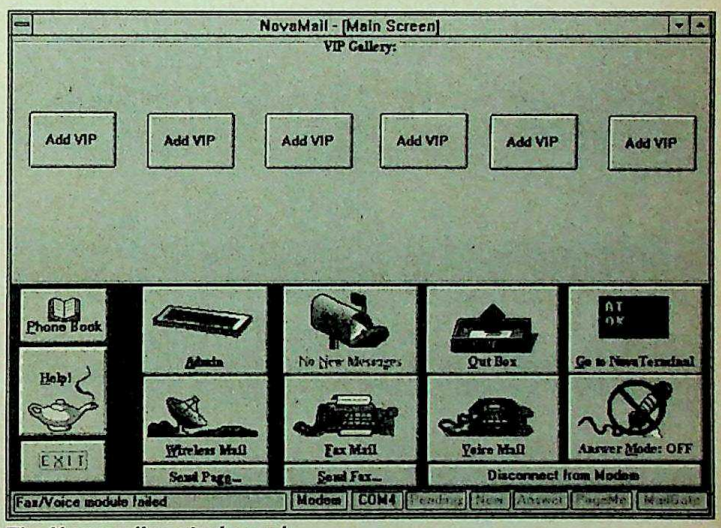
ova Modem 144 is an integrated voice, fax and data modem, with built-in power saving. During testing it never got quite as hot as Multitech modem.

hough the Novalink is cellular with MNP10, you need a special connector that wasn't in the box.

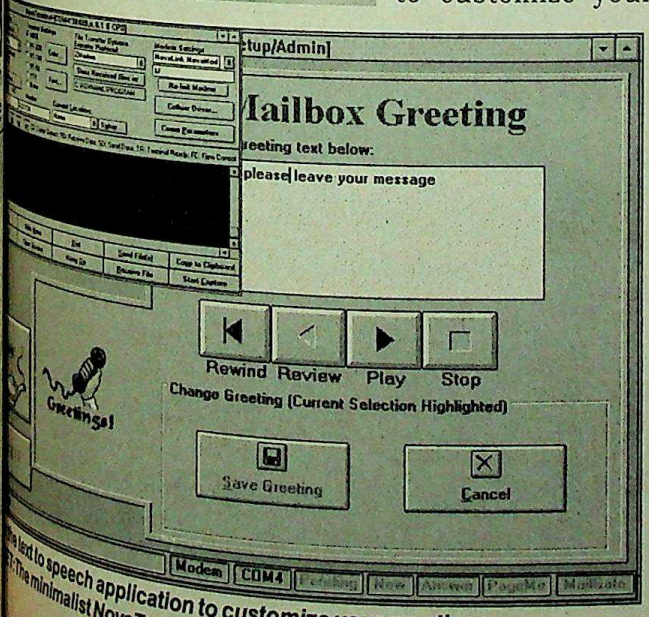
The modem's manual contains lots of useful information. Each modem command is described in detail; helpful for both casual users and programmers. For the latter, there also a detailed set of fax and voice commands to build custom applications.



The included Novamail software requires a sound card. It also has drivers for various cellular phones. This advanced program integrates fax, pager, voice mail and data transfer into a single multimedia application. It also includes a fairly good text-to-speech convertor, This managed to correctly pronounce some Indian names I tried. The convertor can also be used to customize your greetings.



The Novamail control panel



ne text to speech application to customize your greetings r: The minimalist NovaTerminal. No cluttered menus!

Novamail has a gateway to forward local e-mail to a pager, or incoming e-mail to your regular account. It also autodetects fax, voice and data calls. But is the absence of a host mode, data calls are rejected while fax and voice mail is supported.

The voice mail features include fax back, fax forward, and password security for each mailbox. The only drawback is the limited number of mailboxes (6+2).

The NovaTerminal is a minimalist Windows communication program. Despite its plain vanilla look, it is quite well designed. Most terminal programs are supported, including ZModem, and communication settings are not hidden in an obscure menu.

The Novamail program has its own manual. This app seems a later development since the modem's manual keeps referring to QuickLink instead of Novamail

DM

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

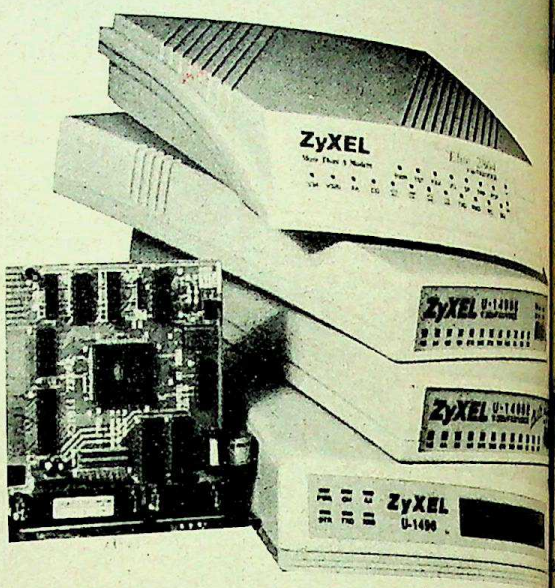
WHICH ZyXEL IS YOURS

Almost every true Data Communication Professional trusts & swears by ZyXEL; The Voice/Data/Fax Modems that connect and work where every other Modem has failed.

ZyXEL! the Datacom Professionals choice is now available in India in a wide range of models from 14.4 kbps to 28.8 kbps.

Pick up the Model/s, best suited to you and get a very pleasent surprise - that ZyXEL data communication can be so fast, efficient reliable and cost effective.

This is ZyXEL reliability.



Another pleasent Surprise! We offer a connectivity in a matter of Days.

Just Fax us your All-India requirement, addresses of locations to be connected out the country.

Team ZyXEL is ready, waiting and to say

This is ZyXEL Service.

ZyXEL

VOICE/DATA/FAX MODEMS

WITH CELLULAR SUPPORT

EDP AIDS PVT LTD

B-32, Lajpat Nagar-2
New Delhi-110 024
Phones (11) : 683 3192, 684 6299, 684
Fax: (11) : 684 6299
E-Mail (Sprint Mail) : edp.aids/edpa
X-400 : (C:IN,A:VSNL,P:SPRINTRPG,
O: EDPA, FN:EDP,SN:AIDS)
Internet : edp.aids@edpa.sprintrpg.sprint.com

* Associates: Xon Communications Pvt. Ltd.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Logitech TrackMan Voyager

A stylish trackball for notebooks

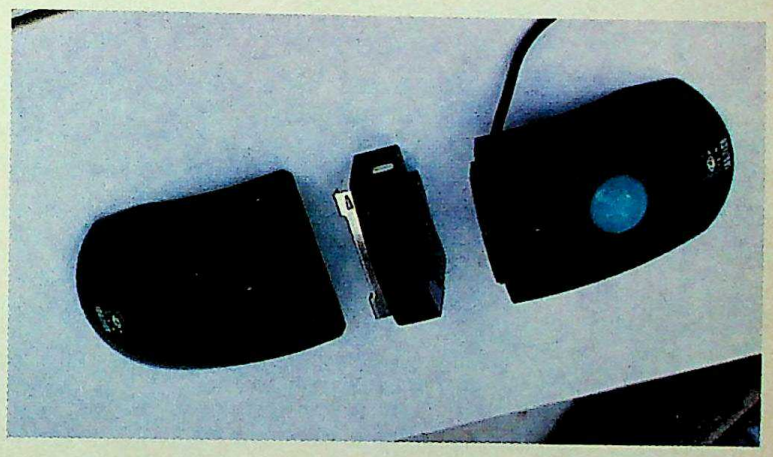
THE SPECS

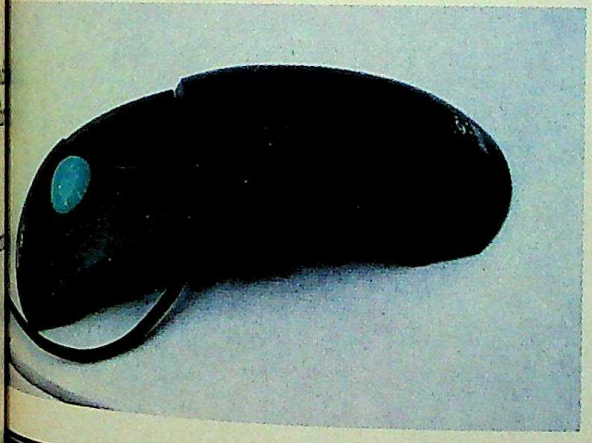
Logitech TrackMan Voyager. Portable trackball with PS/2 connector. Vintron (11-6814520) Rs 2,995. RQS #E0339
Three-button trackball with snap-on cover and notebook clip.

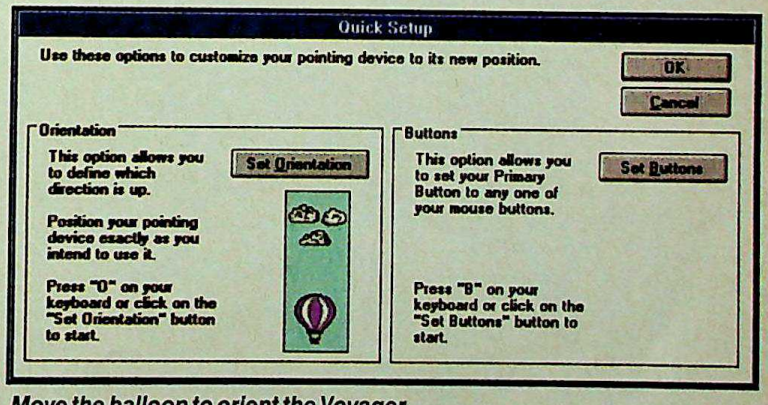
The Voyager is a handy, appealing trackball for notebook users. It's small enough to fit into your palm, but you can manipulate it with ease, and its sensitivity is very good.

A unique touch is the snap-on cover that protects the ball when travelling. The cover can be turned around as support for your palm, on a flat surface. So you can either hold the Voyager in your hand, or keep it on an armrest, mouse tray, or desktop.

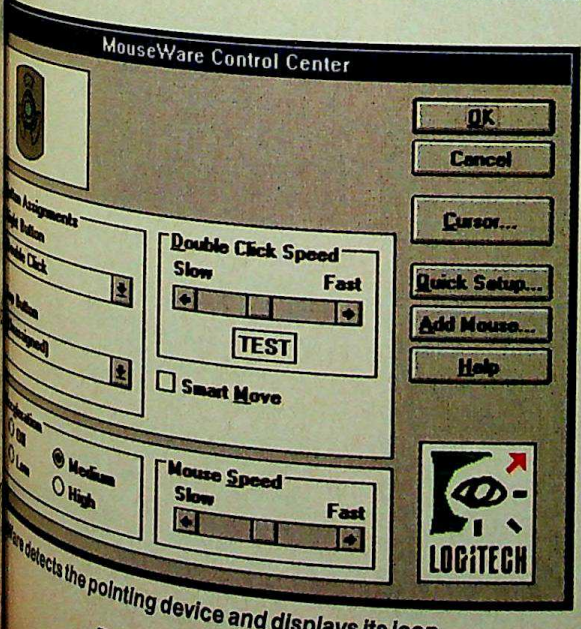
A notch in the base helps keep the cord rolled up. And there's a snap-on notebook attachment. If Logitech had made the cable a little longer, this would have done well even for use with desktop PCs.







Move the balloon to orient the Voyager



MouseWare detects the pointing device and displays its icon

MouseWare 6.6 is a generic Logitech pointing devices driver and control software for DOS and Windows. Installing it is a breeze.

Configuring MouseWare is easy. It replaces the standard Windows mouse icon with a grinning rodent. And loads the Mouse Control Center with Windows.

MouseWare 6.6 automatically recognizes the trackball or mouse installed, and changes its icon. Both the middle and secondary buttons can be configured. As can the size, orientation, and transparency of the pointer. Along with the usual mouse trails and swap options, Smart Move moves the pointer to the default radio button, convenient for apps with nested dialogs.

GM

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

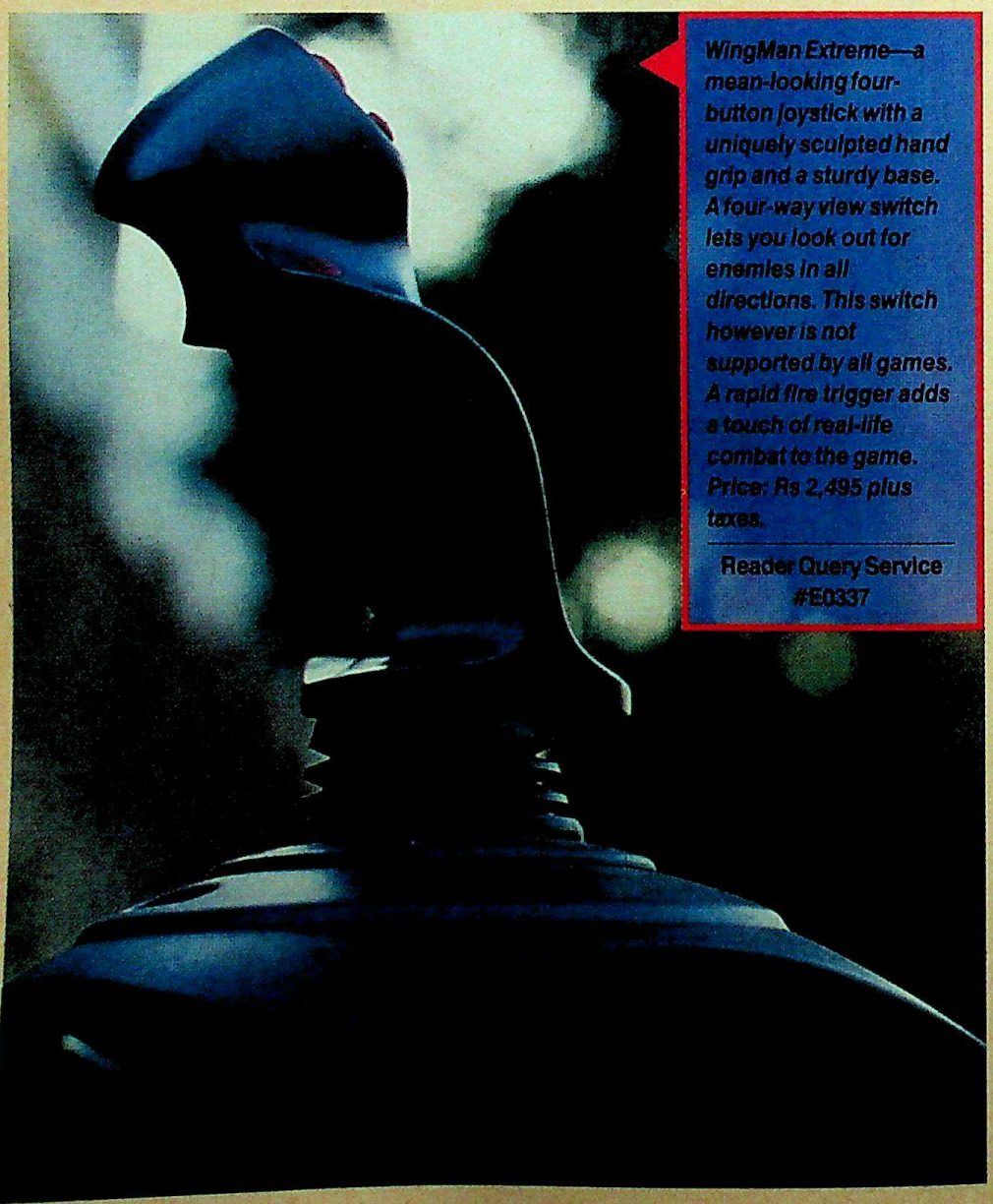
Joy For The Gamers

Logitech's new range of joysticks and gamepads add a new dimension of realism to game playing

The ThunderPad gamepad and the WingMan series of joysticks were launched at IT Asia '95. These sleek devices need a 15-pin joystick port on your machine (usually found on the sound card). All of these come with a year's warranty.

WingMan Light—a two-button, lightweight joystick. Suction cups at the base add stability and prevent the joystick from moving. Two trim control wheels let you calibrate the joystick. Price: Rs 995 plus taxes.

Reader Query Service #E0335



WingMan Extreme—a mean-looking four-button joystick with a uniquely sculpted hand grip and a sturdy base. A four-way view switch lets you look out for enemies in all directions. This switch however is not supported by all games. A rapid fire trigger adds a touch of real-life combat to the game. Price: Rs 2,495 plus taxes.

Reader Query Service #E0337

The ThunderPad Gamepad takes a little time getting used to. A yellow colored button on the left allows movement in eight directions. Besides the four standard buttons, there are two other turbo buttons. Price: Rs 995 plus taxes.

Reader Query Service #E0338

WingMan [illegible] high-end joystick [illegible] buttons. [illegible] model is very sensitive and provides greater maneuverability. The joystick is based on a roller ball, providing more movement. In addition to the two [illegible] the X and Y axes, WingMan has a third wheel at the base for throttle settings. You can use this to increase or decrease speed. This feature is supported only in some games, like Microsoft's Flight Simulator. Price: Rs 1,995 plus taxes.

Reader Query Service #E0339

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Sa

...RD IS OUT...
E WORD IS OUT.
HE WORD IS OUT...

...Why would PC Computing at Comdex /Fall 95 vote Word Pro 96 for the "Most Valuable Products Award?"

down, no questions asked, 's Team features are the best in ess," says ***PC Computing.***

wer for Individuals

through everyday word processing ith Lotus Word Pro 96. You have all s you need to go from inspiration polished document -- and you can ter and easier than ever before. nstance Graphical "click here" how you exactly where to place tus Word Pro 96 even offers spell g and correction as you type! After hours of usability tests comes the fo Box, which provides formatting , with all changes displayed in the rt as they're made.

ort, everything about Lotus ro 96 is designed to help a writer ize on writing, while still g visually compelling, professional- documents.

Productivity for Teams.
Now you can create, review, and edit shared documents with ease. No more circulating documents electronically with little control over how your editors mark up a document. No more trying to reconcile multiple marked-up copies. Lotus Word Pro 96 changes that process forever.

You have complete control over the editing rights of each team member. And Lotus Word Pro 96 gives your editors a completed set of flexible mark-up tools, including a Highlighter pen with custom colours, red-lining, and even electronic "sticky notes," which allow editors to comment without actually editing the document. Then, use Team Consolidate to see and review everyone's edits on-screen simultaneously and quickly combine all the best ideas into a single document. That's a real time-saver!

This ability to keep everyone involved without surrendering control of your writing makes Lotus Word Pro 96 the ideal word processor for how you work today.

Integration and communication
Sitting in Word pro you can edit and create HTML documents on the Internet. Conversion filters with read/write facility for Word Perfect, Microsoft Word and DCA/RFT files. Single click access to cc : Mail and Notes.

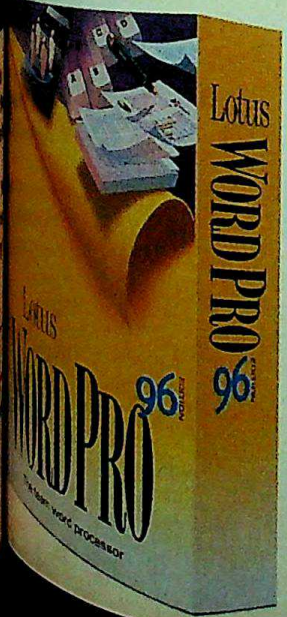
Rs. 4750 special offer: Two for one

Lotus WORD PRO 96 EDITION

The team word processor

(Buy one, get one license free)

For Word Pro 96 Special Offer, contact ITC Ltd, or your seller.



Lotus

India Liaison Office,
New Delhi.
Ph: 6118140. Fax: 6882543

ITC

ITC Ltd., Information Systems Division;
Bangalore Ph: 2278372, 2279854. Fax: 2214345
Bombay Ph: 2852850, 2043261 Fax: 2855815
Calcutta Ph: 292357 Fax: 2452254
Delhi Ph: 6882556, 6110277. Fax: 6872893

Word Pro 96. on Windows 3.1, and Windows 95. Soon on OS/2

All trademarks are the property of their respective owners. Lotus Development Corporation is an IBM subsidiary.
The product is also available without the special offer.

THE WORD IS OUT...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Genius MyMouse

These three mice have the same features, but differ only in color. The strategy presumably being that users who identify with a particular style will acquire one. The models reviewed were the Leopard, Cobra and Purple Coral.

The MyMouse's design is ergonomic. However, people with small hands may find these a little uncomfortable. These three-button mice are programmable using the bundled MouseMate drivers. MouseMate is compatible with Windows 3.x and DOS. The help is neither elaborate nor context-sensitive. Also included was a multimedia presentation app, MediaMate, that refused to work.

Logitech MouseM

The MouseMan and the MouseMan Sens are designed to fit your hand's natural curve. They come with PS/2 mouseport and nine-pin serial connectors. The bundled MouseWare 6.43 driver is compatible with Windows 3.x and DOS. (see review of "Logitech TrackMan Voyager" elsewhere in this issue)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

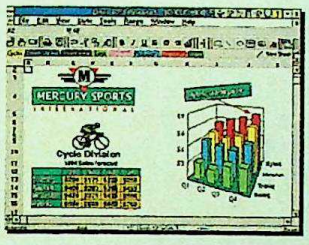
Digitized by Arya Samaj Foundation Chennai and eGangotri

SmartSuite 4.0

Write It. Lotus **WordPro**

" If you're working with lots of people who are adding to, changing, and reviewing documents, this is your new Team word processor. Hands down, no question asked, Word Pro's Team Mail, Team Review and team Consolidate features are the best in the business." *Ziff Davis Interactive,*

...t. Word Pro; the award winning word processor.



...t. Lotus **1-2-3**

...g spreadsheet productivity with the ...ost popular spreadsheet. Analyse, format, ...ary, publish your spreadsheet data more ...n ever before.

...t. Lotus **Freelance Graphics**

...ple steps take you from an initial idea to a great presentation. There is no faster or easier way to create professional, stunning presentations.

File It. Lotus **Approach**

It is now simple for anyone to build a database and access the important data using Lotus Approach. With this new database users become ...uctive within just 2 hours.

...t. Lotus **Organiser**

...your time and work is now easy and enjoyable. Lotus Organizer looks just ...-screen diary you probably already use. ...Address book, Calendar, plus much more.

Record It. Lotus **ScreenCam** For windows is a multimedia screen and sound capture utility. It is designed to enhance learning and informal day to day communication by enabling users to record, distribute and play back screen movements and sound.

...Suite 4.0 Special Cross-Grade Offer, contact ITC Ltd., or your reseller.

Lotus

...a Liaison Office,
...New Delhi.
...8140 Fax: 6882543

ITC Ltd., Information Systems Division;
Bangalore Ph: 2278372, 2279854. Fax: 2214345
Bombay Ph: 2852850, 2043261 Fax: 2855815
Calcutta Ph: 292357 Fax: 2452254
Delhi Ph: 6882556, 6110277. Fax: 6872893

...4.0 on Windows 3.1. SmartSuite 96 now on Windows 95. Soon on OS/2

...are the property of their respective owners. Lotus Development Corporation is an ...ion subsidiary. The product is also available without the special offer.

SmartSuite 4.0

The desktop solution for you and your team

Rs. **8450**
Special Cross-Grade Offer

Eligibility

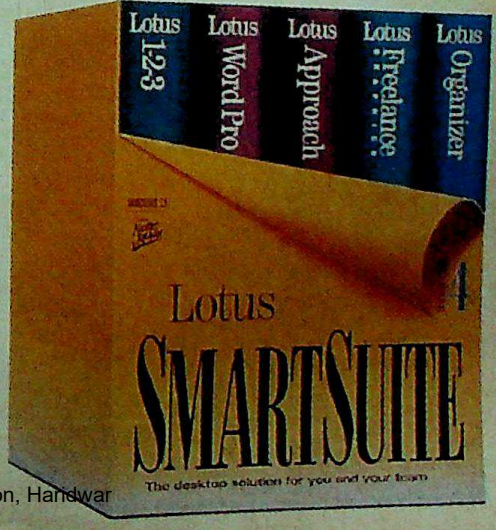
This offer is valid for licensed users of ANY desktop software package. Please specify your package and registration number in your order. Offer valid till March 31, 1996

Lotus SmartSuite 4.0 contains five, award winning applications created to work together.

Whether you work alone or in teams, NEW Lotus SmartSuite 4.0 brings you five hard-working, easy-to-use applications in one integrated desktop suite. All this for the special price of just Rs. 8450

Lotus' team computing mantra resonates throughout the Windows 95 version of its SmartSuite.

PC Week Labs, 30/10/95



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

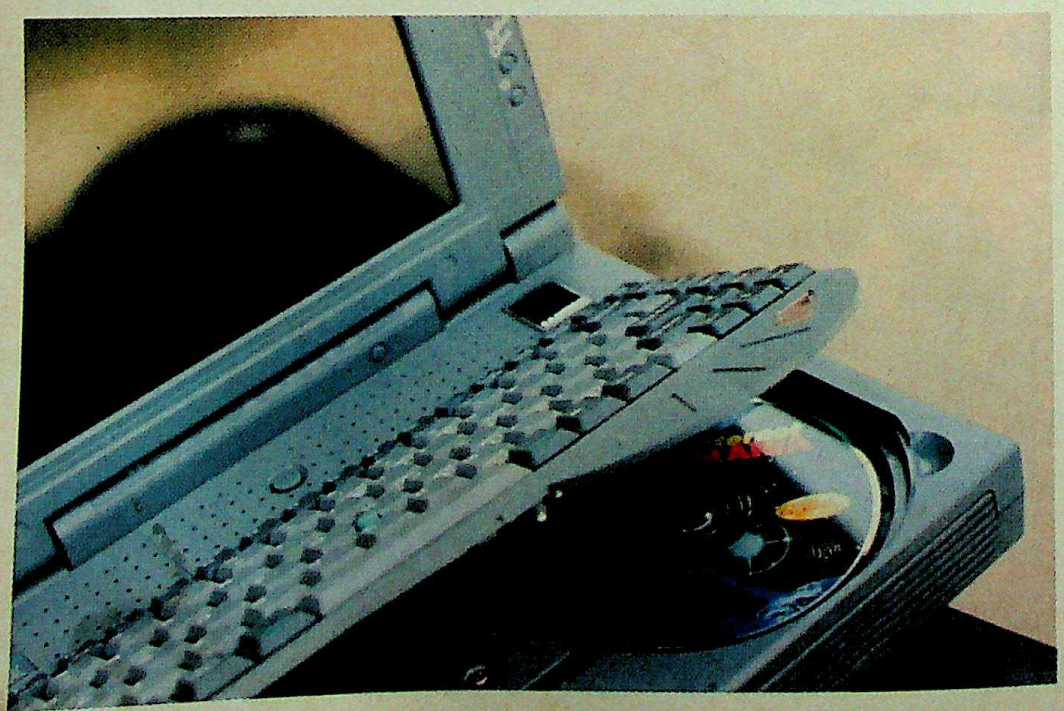
SamTec Expor P54C Notebook

A fast Pentium-based machine with impressive multimedia features

The high price tag of Expor P54C notebook shows that it is intended for those with deep pockets. The features available are a color active matrix display, sound card, dual speed CD-ROM, and an MPEG decoder card.

The Expor P54C's display card (CHIPS 655DGX-PCI) and IDE controller are on the PCI bus. This really boosts the system's speed. The display card supports up to 1024x768(x256) resolution, but since the LCD display has a 640x480 resolution, hardware scrolling is used to get that extra desktop area. The active color display is bright enough for use inside a building, but does strain your eyes in daylight. On the average, the display feels crisp and clear. But on the whole the display's brightness controls are poor. The minimum drains your battery and the maximum isn't enough for indoor lighting. The keyboard and J-mouse are comfortable and you get used to both very fast. A crib is the placement of the "Fn" (Function) key, since users expect "Alt" next to the spacebar. The J-Mouse's proprietary drivers were better than either Logitech or Microsoft drivers. The mouse buttons are also conveniently placed. I wish this would become the standard, since it's much easier for keyboard junkies like me.

The notebook IIT MPEG decoder card is a real killer. It lets you watch full screen video at 24 fps. The card comes with a driver that also lets you view Video CDs. Nevertheless, the quality is much better than your VCR; you don't get the motion or color blur during stills or when pausing playback. There is also a video-out jack.



The Expor P54C doesn't c... any other applications for th... card, which could have bee... tapped for video conferencing ... The sound card is an "ESS A... ES1688" and SoundBlaster-... tible. It also has a MPU-401 ... you play MIDI music. Unfo... the software supplied was ... the sound card drivers and a ... utilities. The sound card ha... good built-in speakers (along ... In, Line out and Mic jacks). ... also digital volume controls ... jacks. The Expor P54C ob... with external speakers or mi...

The battery bundled ... notebook wasn't very good. It ... more than 10 minutes wit... MPEG and about 3-4 minu...

THE SPECS

PRODUCT: SamTec Expor P54C
TYPE: Pentium 100-based note...

FEATURE: Pentium 100 (p54c), ... 8 MB RAM, Active color d... PCMCIA Type II slots ES1688 sou... (MIDI/Joystick port, Mic port, Line ... Line out), IIT MPEG playback, ... 640x480x16M, 800x600x256, ... x256, External 1.44 floppy drive, ... speed Philips CD-ROM, J-mouse ... HDD.

SOFTWARE: MPEG playback, Sound, ... Display driver disks, Win... Workgroups 3.11.

POWER: NiMh battery used. Lithium ion ... optional.

PRICE: Rs 225,000

SUMMARY: Fast Pentium-based ... with impressive multimedia feature... of integration and finish become... within an hour of use, could be ... machine otherwise.

MANUFACTURER: Sunrex Tech... Corp

VENDOR: Samtech Computer Pvt Ltd ... East Patel Nagar, New Delhi 11... 11-5734293, 5734226 Fax 11-... Telex: 31-77336 AKIL-IN

Reader Query Service #ES...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Atlast, a UPS different from the ordinary.

(Shown here in actual size)

ANDY DIRECT/RP.53

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

them. I tried charging the battery by leaving the machine on for 28 hours, but that didn't help.

There were few power saving options available. It was either the suspend button or the BIOS settings. No power saving utilities were supplied or installed on the notebook. I would have liked a setup utility that gives three to four power settings such as Max Time/Low Speed or Max Speed/Low Time. These make much more sense than fiddling around with BIOS settings.

Another problem I faced was while testing PCMCIA modems. First the PCMCIA LED didn't work. Then the PCMCIA software required an IRQ to detect card events. The default IRQ was 15, which was in use by the MPEG card. After much juggling around, I finally settled on IRQ 2-Sound, IRQ 5-PCMCIA. Even a little documentation would have gone a long way in helping me solve this IRQ conflict. Then while installing the supplied PCMCIA software, I got an error message that "the notebook doesn't have battery suspend support for PCMCIA cards." I'm still not sure what this means.

Since the system is loaded with peripherals, the vendor could supply a list of free IRQs in case they don't try using the PCM utilities to detect which resources are free.

The Expor P54C has a cute external floppy drive which doesn't make any noise, even on bad floppy disks. The notebook's drive LED stays on when the drive is disconnected and off when connected; opposite to conventional wisdom.

The CD-ROM drive is placed under the keyboard. Designed to take shocks, the head and spindle assembly have their own suspension. The CD-ROM LED on the notebook didn't work, which would have helped if you w... battery.

Other glitches

The hard disk size and ... insufficient for a machine ... configuration. I would recom... least 1 GB and 16 MB. And rat... WfW 3.11, I would have p... Windows 95. While the revie... had oodles of software inclu... Office, MS Project, CorelDra... Pagemaker, I don't think these a... bundled.

The Expor P54C is a fast P... based machine with impressiv... media features. In theory, it s... real killer. In reality, there is a ... lack of integration and finish. ... within an hour of use. This, th... RAM and hard disk, and poor ... life really lets the machine dow...

Digi...

Form IV

(See Rule 8)

Statememt about ownership and other particulars about the newspaper entitled PC QUEST of India as requir... to be published in the first issue every year after the last day of February

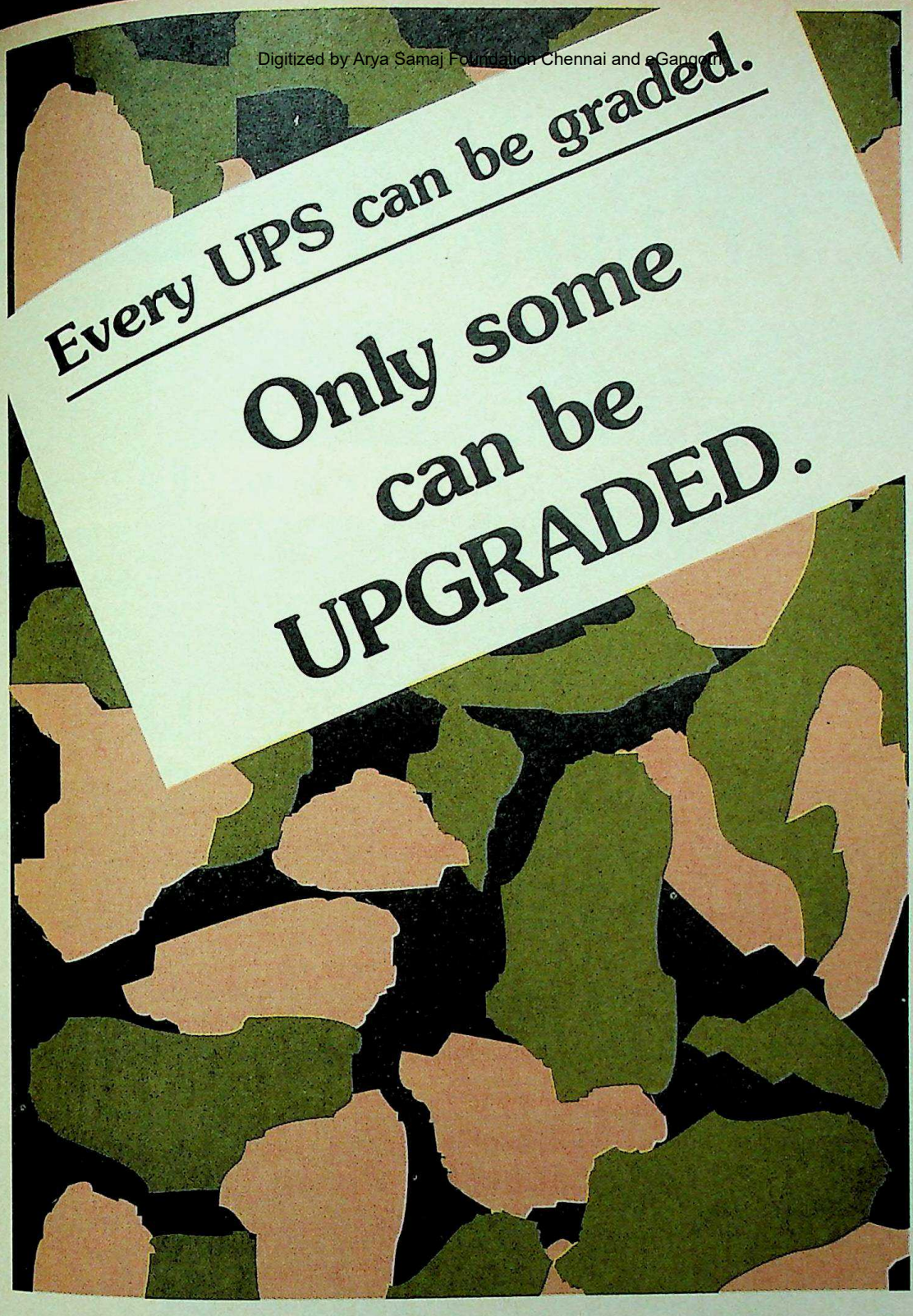
1.	Place of Publication	:	New Delhi
2.	Periodicity of Publication	:	Monthly
3.	Printer's Name	:	Pradeep Gupta
	Whether Citizen of India	:	Yes
	Address	:	810, Meghdoot, 94 Nehru Place, New Delhi-110019
4.	Publisher's Name	:	Pradeep Gupta
	Whether Citizen of India	:	Yes
	Address	:	810, Meghdoot, 94 Nehru Place, New Delhi-110019
5.	Editor's Name	:	Prasanto Kumar Roy
	Whether Citizen of India	:	Yes
	Address	:	810, Meghdoot, 94 Nehru Place, New Delhi-110019
6.	Names & addresses of individuals who own the newspaper, and partners or shareholders holding more than one percent of the total paid-up capital (as on 28.02.1996)	:	Cyber Media (India) Ltd, 810 Meghdoot, 94 Nehru Place, New Delhi-110019

I, Pradeep Gupta, hereby declare that the particulars given above are true to the best of my knowledge and belief.

Pradeep Gupta
Signature of Publisher

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



SAFEPOWER COMMANDO entry level 280 VA & 425 VA UPSs are upgradable to 650 VA to accomodate your enhanced power needs. And this, by paying only the differential in the prevailing List Prices of the models ! The entire SAFEPOWER COMMANDO range comes loaded with features •150 V - 275 V input voltage range •Long inbuilt battery back up • Power-fail warning & automatic shutdown with Safeware Lite (optional)•Competent service team to provide the full level of the pre-announced service options.

SAFEPOWER COMMANDO

280 VA, 425 VA, 650 VA, 800 VA **Line interactive design**

RADIANT POWER SYSTEMS PRIVATE LIMITED

AJMER : 423453 / 423542 ALLAHABAD : 608374, 600301 AMRITSAR : 548392 CALCUTTA : 724865 / 726733 CHANDIGARH : 706175 CUTTACK : 614292 DEHRADUN : 657119 GHAZIABAD : 754851 GWALIOR : 322911 JAIPUR : 601953, 563097 JALLANDHAR : 271872 / 3 JODHPUR : 37586, 32585 KANPUR : 214039, 296302 KOTA : 421247 LUCKNOW : 218351, 78643 LUDHIANA : 456891 MEERUT : 540874, 540894, 642012 RANCHI : 205360 UDAIPUR : 526987 VARANASI : 351133, 355288

84, Khijrabad, New Friends Colony, New Delhi - 110065.Ph.: 6835523, 6919387, 6918908, 6911566.Fax: 6918908, 6834299

BECOME A SAFEDEALER TODAY. BECOME A PART OF ACTION !

Logos / trademarks appearing above are the property of their respective owners.

ANDY DIRECT/RP.5

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HP CopyJet M

A copier-cum-color printer with a small pricetag, the Copyjet M will shake up the color copy market.

This new addition to HP's inkjet lineup is one remarkable product. Not because it's new and compact and combines color printing with color copying. That's neat enough, and I was impressed with the features and quality on my first preview of this device at San Diego last August. But then, Canon's CLC 10 has done all this for years.

The CopyJet is remarkable because of its pricetag.

At Rs 110,000 on the street, it will shake up the color copy market. With a single product, HP could move color copying from the bureau and copy-shop (where it is, worldwide) to the corporate and SOHO office.

The CopyJet looks like a reasonably compact copier. It copies A-4 and larger sheets in color, prints PCL files, and its M version handles networking and PostScript. Functionally, it combines all of these:

- λ HP's high-end DeskJet 1600C (earlier the 1200C) engine, with the same independent CMYK cartridges and professional Pantone color certification.
- λ As with that printer series, a parallel product, the CopyJet M, brings PostScript Level II, powerful 10BaseT network connectivity with a JetDirect interface, and Macintosh connectivity.
- λ A flatbed color scanning unit that turns this device into a copier. The CopyJet does not, however, function as an independent scanner.

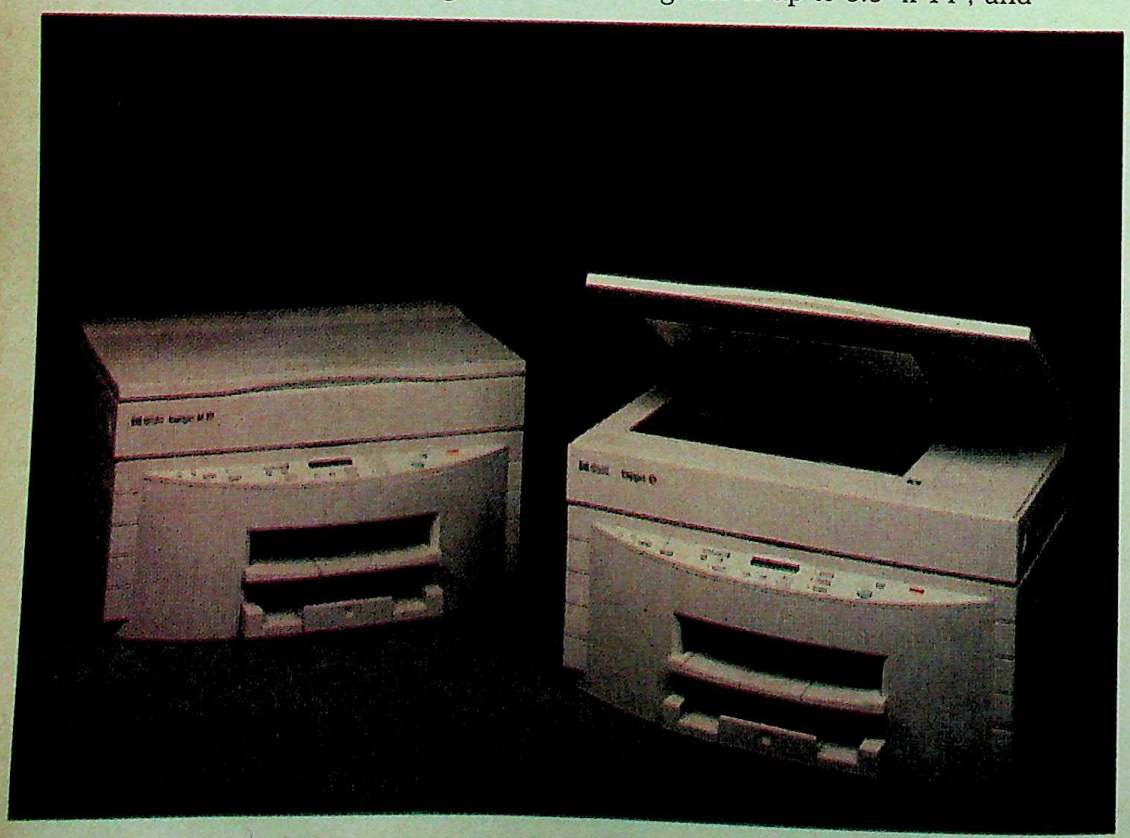
The Product

The CopyJet is a 300 dpi workgroup device, with resolution enhancement bringing sharp black text that appears close to 600 dpi quality. The copy surface takes originals of up to 8.5" x 14", and a double-hinged, remov... document cover makes copy... thick books convenient.

The four 1200C/16... series inkjet cartridges are ... to replace, and you only ch... the color that runs out.

At PCQ Labs we tested ... CopyJet M first as a copier, ... then as a color and black pri...

The front panel is s... enough: there are buttons ... photo quality control, s... control, zoom control, and ... control, besides the usual s... stop, and clear buttons. Co... an image from a magazine c... on plain paper at the "n... color setting produced an o... in 82 sec, but with fairly ... colors. Choosing "high qu... improved the output s... ficantly. We could easily ... adjustments to produce a ...



THE SPECS

PRODUCT: HP CopyJet and Co... M. TYPE: 300 dpi color plain-p... printer/copier with PCL5. M model ... PostScript, Mac support, and Jet... network connectivity. Up to 4 ppm ... ies) or 7 ppm (printouts) for black ...

FEATURE: Text enhancement, 1-99 ... ies, 50-400 percent zoom in 1 per... steps. Supports multiple media—plain ... per, inkjet paper, glossy media and tr... parency film. HP ColorSmart color-corr... tion. Flexible color quality adjustment ... front-panel and through software. Bu... heater preconditions paper.

PRICE: Rs 115,662 (Rs 143,079 for ... CopyJet M)

SUMMARY: This plain-paper color copy... printer is a remarkable product at ... price. As a color copier and high-end ... Pantone-certified color inkjet printer, it ... unbeatable value for any office needing ... color output and copy capability.

MANUFACTURER: Hewlett Packar... Paharpur Business Center, Nehr... Place, New Delhi

Reader Query Service #E0343

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

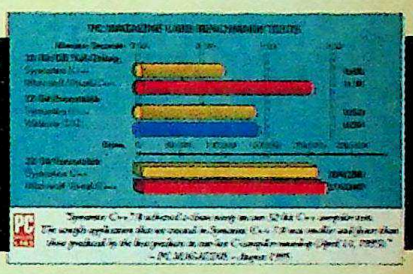
NORTON UTILITIES PROVIDES THE ONLY AUTOMATIC DATA RECOVERY AND CONTINUOUS SYSTEM PROTECTION FOR WINDOWS 95.

FROM DAY ONE NORTON FOR WINDOWS 95

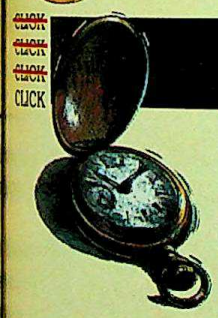
DETECTION, PREVENTION, DESTRUCTION. IF YOUR ANTI-VIRUS SOFTWARE DOESN'T HAVE ALL THREE, YOU'LL BE COMPLETELY EXPOSED TO VIRUSES IN WINDOWS 95.

FROM DAY ONE NORTON FOR WINDOWS 95

WHEN IT COMES TO FAST WINDOWS DEVELOPMENT, ONE CHART IS WORTH A MILLION WORDS. NEW SYMANTEC C++ VERSION 7.



NORTON pcANYWHERE. IT PUTS ALL YOUR WINDOWS 95 APPLICATIONS AT YOUR FINGERTIPS. WHEREVER YOUR FINGERTIPS HAPPEN TO BE.



THE TOP 10 REASONS WHY NORTON NAVIGATOR USERS WORK FASTER IN WINDOWS 95.

FROM DAY ONE NORTON FOR WINDOWS 95

1. First, copy a file from one directory to another. Okay, now copy another file. On average, it takes about eleven steps per file. Now copy a file with Norton Navigator. Mission accomplished. One step.
2. Opening a folder in Windows 95 takes a full five clicks of your trusty mouse. But with Norton Navigator, you can open any folder with just one simple click.
3. Compress a file. Our built-in PK-Zip compatible compression saves you a minute every time.
4. Use Norton Navigator to plug into your Internet connection right from the File Manager. You can be out there using FTP to get files in one third the time it would take you with a separate application.
5. Try a word search for "profits" or any other text string within files. It's at least ten times faster on average with Norton Navigator. No matter how many files you have. Or how big they are. In fact, the bigger the files, the more time you'll save.
6. Save another minute every time you delete, move zip, or encrypt from any application's Open or Save dialog box. (Are you keeping count?)
7. One click is all it takes to access recently opened files or folders from any application. Now isn't that better than wading through folders?
8. Launch your favorite files, folders, or applications simply by pushing a button on the Norton Taskbar. No more going up and down to and from the Start menu over and over again.
9. With Norton Navigator, you can create a different desktop for each project. So you can find your work more easily. And save even more time.
10. Windows 95 supports long file names for all of your new 32-bit applications. Norton Navigator supports long file names for most 16-bit applications, too. So you'll never again have to remember what "billgbox" means.

SVAM SOFTWARE LIMITED IS AUTHORISED DISTRIBUTORS IN INDIA FOR SYMENTEC

Place or Fax Your Order Today !

NEW DELHI : 70, Janpath, New Delhi-110 001.
Ph. # 011-3731844-45, 3320224, 3324551, 3326313
Fax # 011-3723266

BANGALORE : 84/2, S.T. House, IInd Floor, Richmond Road, Bangalore-560 025 Ph. # 080-2240396 Fax : # 080-2240397

BOMBAY : 104, Adarsh, 1st Floor, 86, Main S.V. Road, Santa Cruz (West) Bombay-400 054
Ph. # 022-6462053 Fax # 022-6487845

CALCUTTA : Flat No. 306, B-Block, Mansarovar Building 3B, Camac Street, Calcutta - 700 016
Ph. # 033-292260 Fax # 033 2429044

Yes

- ☐ I would like to buy .....
- ☐ Quantity requirement is .....pcs.
- ☐ Requirement is ● immediate ● 1-2 month ● 3-6 months
- ☐ I would like offer to be sent immediately.....
- ☐ We would like to be Dealer/ Reseller

My details are

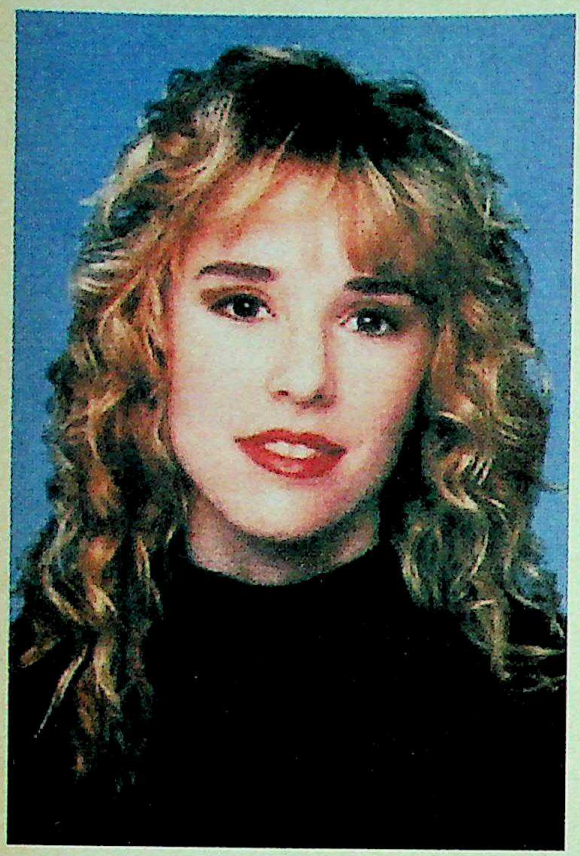
Name : .....
Title : .....
Organisation : .....
Address : .....
.....
Tel. : .....
Fax : .....

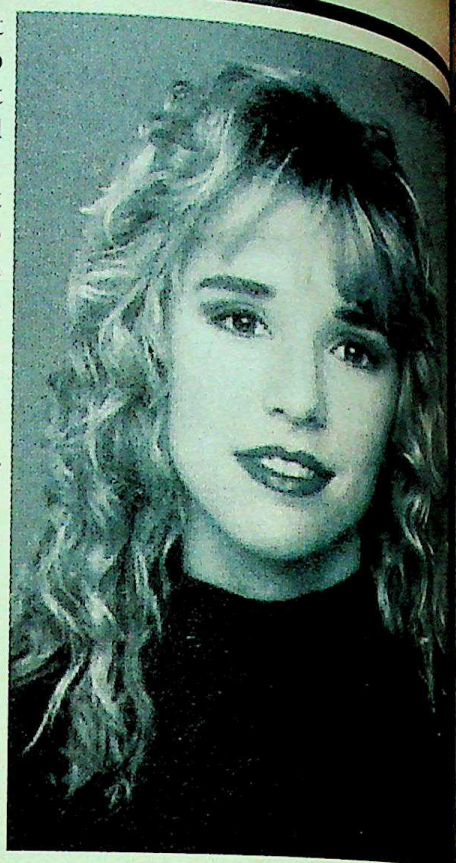
Attach your visiting card

BUY LEGAL SOFTWARE AND AVOID

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri





than what we expected, but changing the setting to 'match color to printer' got us a better image than we'd expect of a 300 dpi printout.

Fast mode printout quality wasn't anything to write home about. Quite a bit of banding appeared, especially in the blacks. Increasing the quality dropped the speed by up to 50 percent.

We tried printing text of various sizes and fonts. The reproduction was clearly visible down to 4-point text, commendable for 300 dpi inkjet output. We did see some jaggedness with some fonts, such as 12-point Times. Finally, in color text printing, black dots visible in the colored text, and the text wasn't as crisp as we'd expected.

But as with the 1600C printer, the print speed is impressive, and the quality is maintained even in fast mode. This mode produced the first copy in just 37 sec and subsequent copies in 17 sec each.

Print quality was good, but the banding in several modes was noticeable. For the most part, the high-quality modes need to be used for the faster modes, though lower resolutions are acceptable. It would help if the printer strips blended more smoothly. In high-quality copy mode, however, no banding is visible.

Overall, a device that presents excellent value and has a great deal of potential.

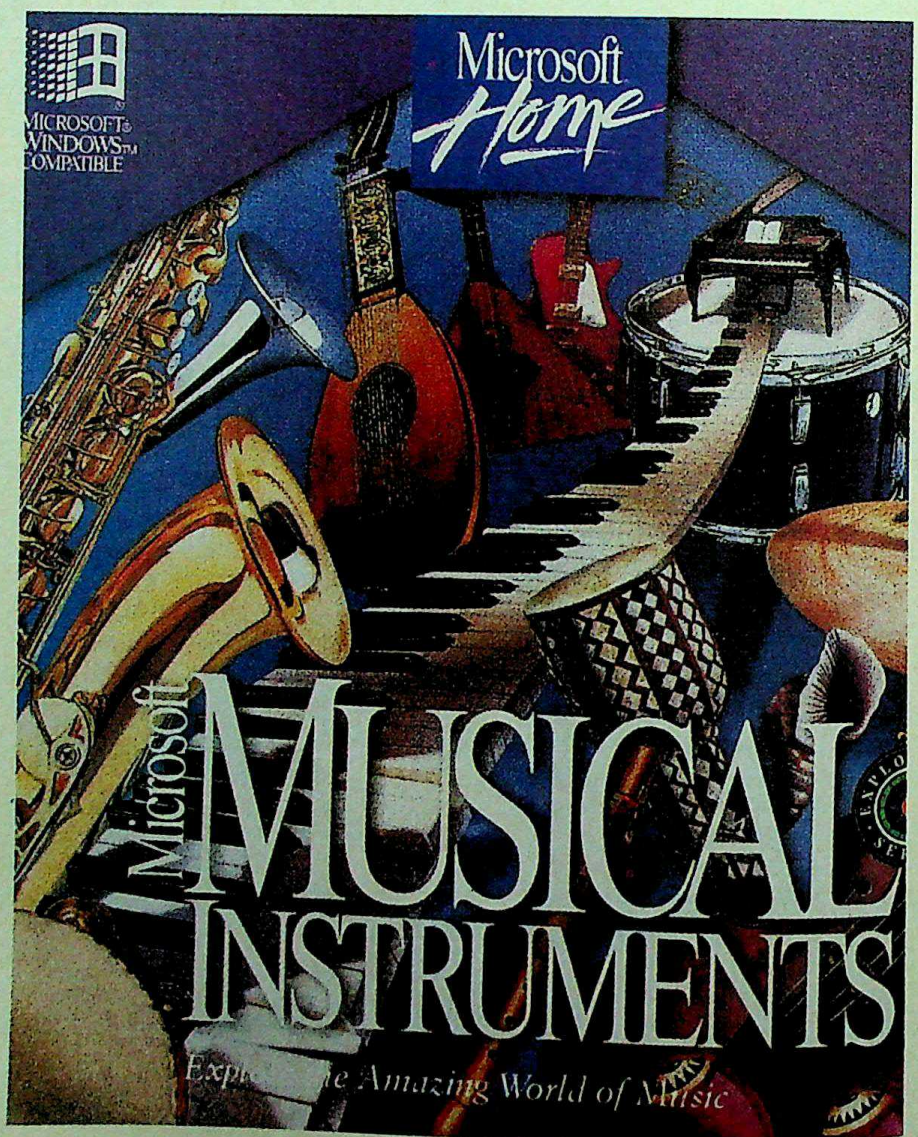
PKR with tests by Ashok Kumar and Praveen at PCQ Lab

copy of the original image.

The zoom option is neat—instead of the few steps you'd get on a mono copier, this zooms in 1 percent increments from 50 to 400 percent; you can also have eight preset settings. That's not unusual for a digital copier (unlike mono copies, which use complex optical-mechanical zooming).

The zoomed output was clear, without image or color distortion, but with some banding present in big enlargements.

We then tested the print quality of Copyjet M. With some superb software, the entire print job is controlled from the monitor, with plenty of options for text and graphic enhancement. The default settings gave us a color a bit darker



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Magic School Bus The Human Body

This package takes six to ten year olds on a trip inside the human body

CD ROM

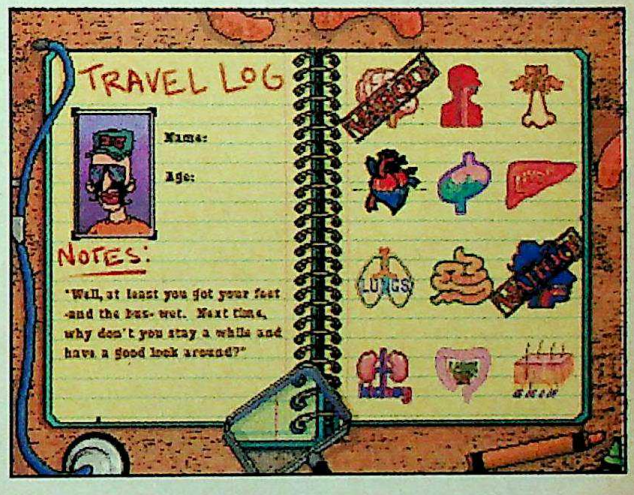
Magic School Bus Explores The Human Body CD-ROM for Windows 3.1 and Windows 95. RQS #E0333. Rs 1,990. From HCL Frontline, M-41, Greater Kailash-II Market, New Delhi 110048. Tel: 11-6423503, 6424779

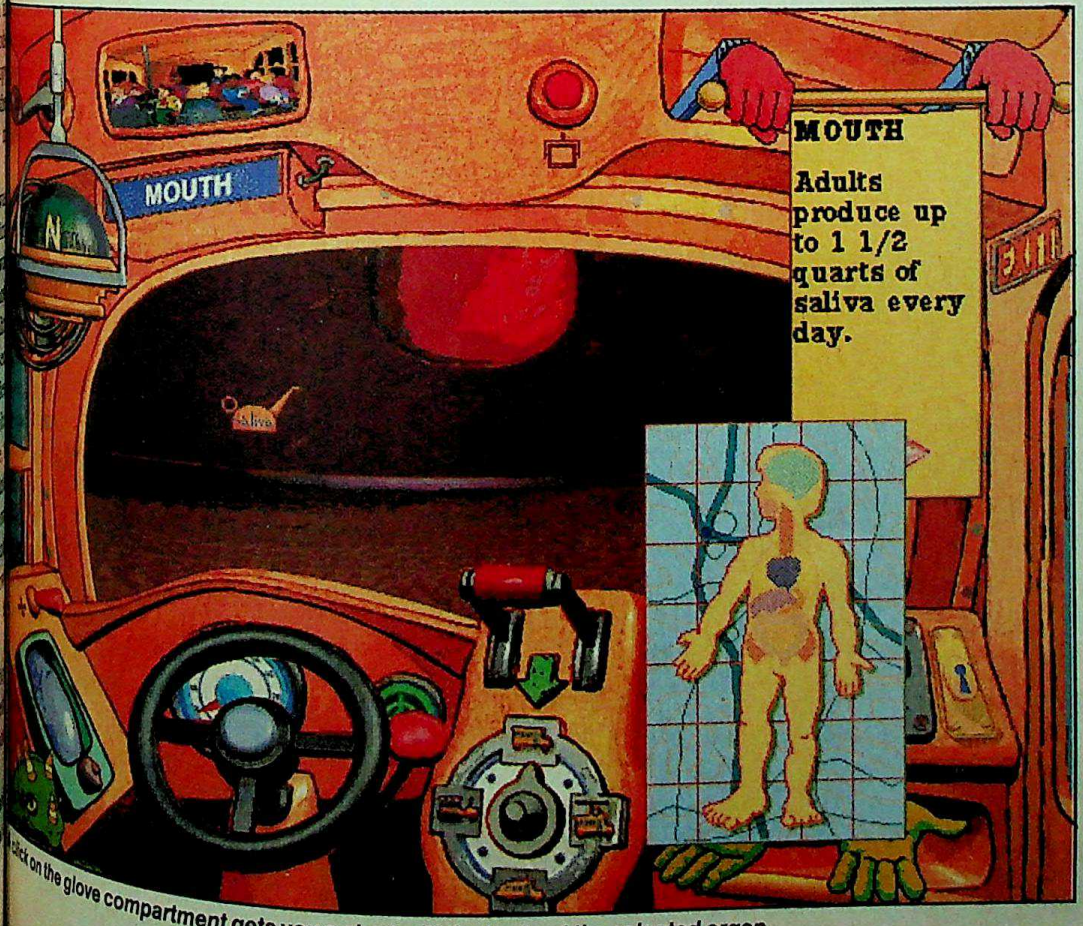
A fast-paced CD title to teach six to ten year olds about the human body.

This is another interesting title from Microsoft's Magic School Bus series. The CD is based on an interesting plot in which Miss Frizzle takes the class on a trip inside Arnold's body in the magic school bus. But before you join the class, you must sign the guest log book, and the kids can have a little bit of fun while creating weird-looking characters.

The Bus is equipped with an amazing number of hi-tech tools and devices to explore the body. There's a map that shows you the organs that you've visited and where you're going next. An Arnold Meter tracks what Arnold is up to. There's also a horn bulb, clicking on which switches the background music on or off. But it's unlikely that you'd want to travel without the fast-paced score.

The Bus takes you on a three-dimensional cruise of body organs. To get a microscopic view of the organ, you can use the magnifying glass stored in the tool box.





Click on the glove compartment gets you a chart with facts about the selected organ

The tool box also stores some other attractive gizmos like a rotating wheel that blows organs apart and a juggler balancing red blood corpuscles and platelets. If you're in luck, you can even draw out a traffic cop.

If you get tired of exploring organs, you can try out any of the 23 games and science experiments. And you don't have to worry when leaving in a hurry, because your status gets saved on exit.

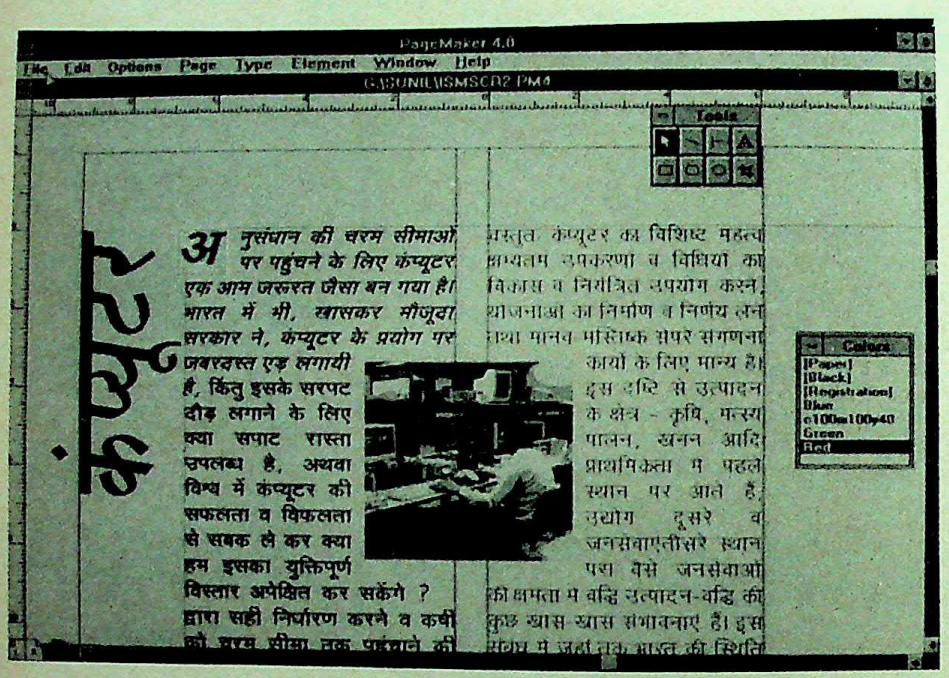
Though not in the same league as the other Magic School Bus titles, this CD would nonetheless appeal because it doesn't scare away kids with scientific facts.

Asawari Ketkar

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Now Software for ... proudly at par with ...



Page Maker Screen

ISFOC Script Manager (ISM) for MS-Windows / Video Graphics / Macintosh

- An Indian language interface to MS-Windows based applications such as MS-Word, PageMaker, CorelDraw, 3D Studio, etc.
- Offers a rich repertoire of aesthetic True type & Post Script, Type-1 fonts in all the Indian scripts.
- Ideal for publishing, newspapers, advertising agencies, multimedia applications.

Salient features of GIST Software

- Allows simultaneous use of Indian scripts, English and diacritic Roman.
- Supports **Assamese, Bengali, Devanagari, Gujarati, Kannada, Tamil, Oriya, Malayalam, Punjabi, Telugu, Tibetan, Bhutanese, Sinhalese, English & diacritic Roman.**
- Unique Spell-checking facility in ALP & LEAP.
- Phonetic typing of all Indian Scripts using the BIS/DOE INSCRIPT keyboard overlay.
- Aesthetic Keytop labels.
- Novell Netware version available.
- Site licencing available.

AUTHORISED DISTRIBUTORS FOR GIST SOFTWARE **Ahmedabad:** Shreedip Services Pvt. Ltd. **(079)** Ph.:407173 Fx.:6425570 **Amravati:** D.P. Systems (0721) Ph.:555902 **Bhopal:** Turning Point Systems **(0755)** Ph.:565147 Fx:558342 **Bhubaneshwar:** Oritech Systems Pvt. Ltd. **(0674)** Ph.:406180 Fx:405875 **Calcutta:** Graphics **(033)** Ph.:2206668 ■Rahul Commerce (P) Ltd. **(033)** Ph.:4408926 Fx.:4408935 **Chandigarh:** Alsun Systems **(0172)** Ph.:702589 Fax:700547 **Coimbatore:** Systems Ltd. **(0422)** Ph.:43916 **Guwahati:** S.M.Computer Consultants **(0361)** Ph.:522156 Fx:520348 **Hyderabad:** Keshava Technologies **(040)** Ph:218366 **Jaipur:** Systems **(0141)** Ph:382948 **Kanpur:** Quark Computers Pvt. Ltd. **(0512)** Ph.:217598 Fx:54357 **Kolhapur:** Print Aid Centre (Pune) Pvt.Ltd. **(0231)** Ph.:672149 **Madras:**

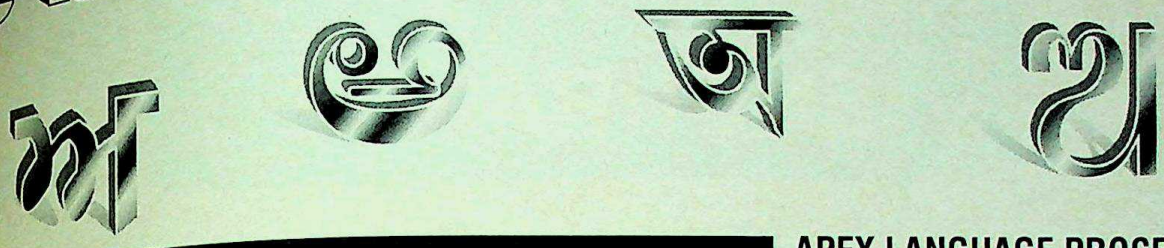
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

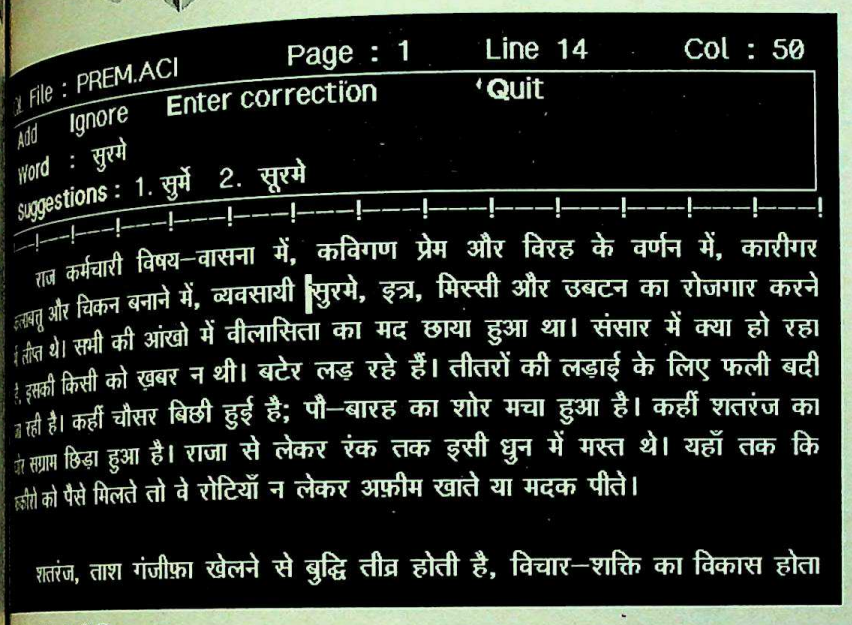
Digitized by Arya Samaj Foundation Chennai and eGangotri

Indian Scripts stands the best in the World !

CDEC
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

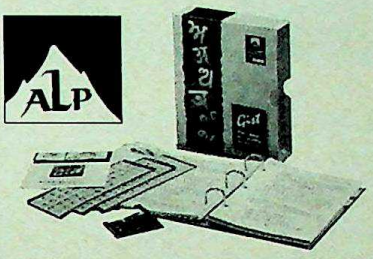
Gist
Nurturing the living Languages



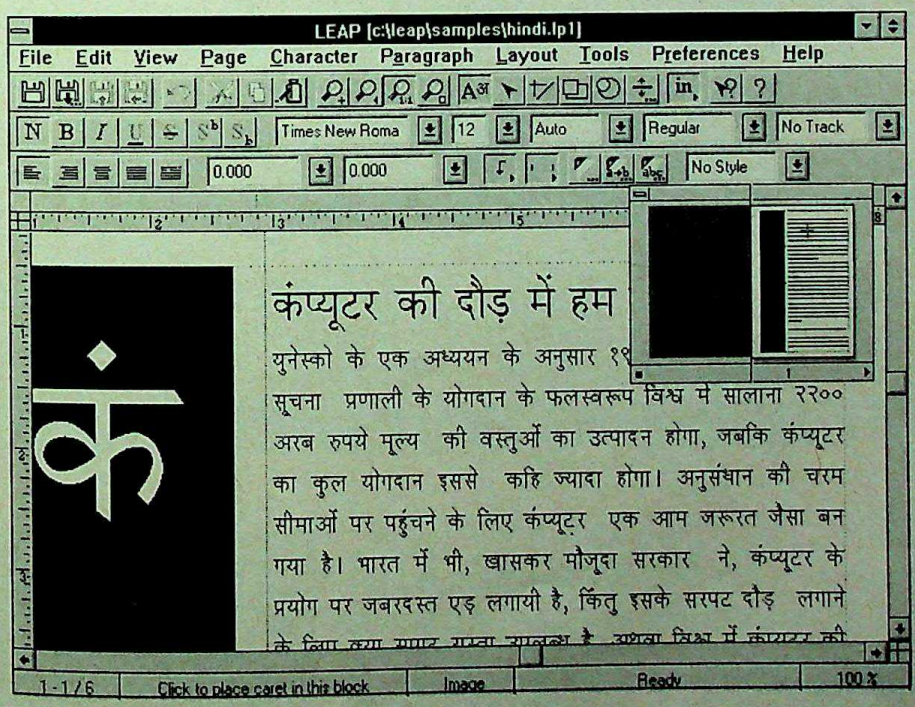


Spellchecking in ALP

APEX LANGUAGE PROCESSOR (ALP) for DOS/UNIX



- Word processor on DOS/UNIX platforms.
- WordStar 4.0 compatible commands.
- Special features such as Mail Merge, Macros, easy generation of table of contents and many more.
- Supports 9-Pin, 24-Pin dot-matrix printers and HP Laserjet II compatible laser printers with excellent fonts.



LEAP Screen

LEAP

- Complete Word processor under MS-Windows specially designed to work with Indian Scripts & English.
- Edits, composes, prints and allows exchange of text in Indian scripts.
- Ideal for publishing bulletins, reports, etc.

CDEC Gist GROUP

For further details contact :

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
Ganesh Khind, Pune 411 007.
Tel.: (0212) 357020, 352461/79/83, 350484, Tlx.: 0145-7615 CDAC IN, Fax.: 91-212-357551 e-mail: gist@cdac.ernet.in

All brand names and trademarks are properties of their respective owners.

Computers Pvt. Ltd. (044) Ph.:611641 Fx.:6413879 ■ Transmatic Systems Ltd. (044) Ph.:4990544 **Madurai:** Transmatic Systems Ltd. (0452) Ph.:27358 **Mumbai:** Lipi Data Systems (022) Ph:2882960 Fax:2873314 **New Delhi:** Alsun Systems (011) Ph.:6473306 Fx.:6438780 ■ C-three-i Systems Pvt.Ltd. (011) Ph.:6821533 Fx.:6843309 **Pune:** Priya Informatics Pvt. Ltd. (0212) Ph.:449297 ■ CyberSpace Systems & Solutions Pvt.Ltd. (0212) Ph.:657342 Fx.:657342 **Raipur:** Priyanka Computer Services (0771) Ph.:535317 Fx.:534957 **Trivandrum:** Transmatic Systems Ltd. (0471) Ph.:433805 Fx.:432465 ○○○ **BHUTAN, Thimpu:** Centre for Computer Application (009752) Ph.:22769 Fx.:22716 **Nepal:** Integrated Computer & Information Services (009771) Ph:410126 Fax:411642 **U.K., Huddersfield:** Lingua Languages Services (0044484) Ph.:689494 Fx.:689594 **U.S.A.:** Shree Computers, Inc. (315) Ph.:655-3204

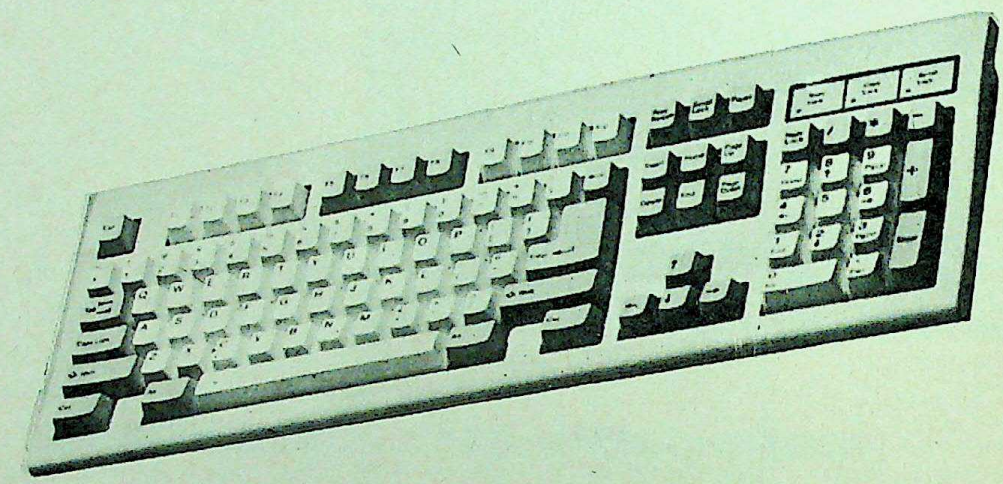
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AT THE APEX OF ENDURANCE

FLIP-TOP-KEYBOARD™

The Only Keyboard With A Tropicalized Membrane



THE ONLY MEMBRANE KEYBOARD THAT SURVIVED A HAMMERING FOR 10 MILLION KEY STROKES AT 2000gms. AS AGAINST 90gms. AS SPECIFIED BY D.O.E./S.T.Q.C.

NEED WE SAY ANYTHING MORE?

Manufactured by : ***INDUSTRIAL ADAPTERS,*** 149, Guru Gobind Singh Ind. Estate, Western Express Highway, Goregaon (E), Bombay - 400 063. Tel. : 8732788 Fax : 022-6268105

Available at : **Western Zone : AHMEDABAD** ★ Jaytronics Tel. : 464546 / 461643 **BARODA** ★ Type House Tel. : 328895 **BOMBAY** ★ Sapphire Micro Systems Tel. : 5782160 / 5782753 **JAIPUR** ★ Computer Jyoti Tel. : 514107 **NAGPUR** ★ Spectron Computers Tel. : 722927 / 723389 **PUNE** ★ The Hard Shop Tel. : 423142 **RAJKOT** ★ Creative Computers Tel. : 34861 **SURAT** ★ IC Consultancies Tel. : 423181 **Southern Zone : BANGALORE** ★ Trinity Business Systems Pvt. Ltd. Tel. : 645324 / 648029 ★ Arion Electronics Tel. : 6648413 / 642411 **CALICUT** ★ IC Soft Tel. : 62139 **ERNAKULAM** ★ Radha Electronics Tel. : 372436 / 369747 **MADRAS** ★ Devraj Computers (Pvt.) Ltd. Tel. : 8525856 **SECUNDERABAD** ★ Computer Valley : Tel. : 814025 **TRIVANDRUM** ★ Softec Computer Tel. : 462395 **Northern Zone : DELHI** ★ Computer Jyoti Tel. : 2229681 ★ M.C. Modi & Co. Tel. : 6461929 6431016 ★ Softech Computers Delhi Ltd. Tel. : 5512244 / 5523056

Dealer enquiries solicited

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Jazz Jackrabbit

Reconquer the galaxy, save the Princess with Jazz

CD ROM

Jazz Jackrabbit Arcade Game. 386s or better with 4 MB RAM, VGA color. Four-button joystick support. Rs 1,700 (CD-ROM), Rs 1,500 (floppy disk), Epic MegaGames, USA. Available from GameTech India, 10686 Jhandewalan Road, Nabi Karim, New Delhi 110055 Tel: 11-7532606, 7511060 Fax: 11-5585397.

RQS #E0301.

The "nerdy-yet-powerful" tortoise king, Devan Shell, and his goons have kidnapped Eva Earlong, the beautiful Rabbit Princess, and run over the galaxy. Jazz Jackrabbit his revenge. You take him through six odes, over sixty levels and several cts, on his quest to reconquer the y and save the Princess.

Jazz Jackrabbit is a commercial rele- of the shareware version (available on PCQ 100 CD-ROM). Epic MegaGames added 30 new levels and a bonus e selector. You no longer have to ter the game to get to the bonus lenges.

You race Jazz against a scrolling kground while he fights off nister-looking Snogoons, e Goons, Bumbling Bees, erballs and others. Jazz has ll-stocked armory with RF ules, TNT, Toasters and r weapons. And if you find 's health failing, you can him up with carrots on the . The sound tracks are fast- ed and make the episodes ly.

Jazz encounters several cts on his quest. The ncePads and SpinMeisters him down. The Shields and Hip-Hops are friendly. The idea: run fast and shoot hard at whatever comes along.

The game is packed with power-ups that add to the excitement. Shooting the Fast Feet icon makes Jazz speedup for 20 seconds. A 1UP sign gets an extra Jazz. An Hourglass gives bonus time. And Giant Gems send you straight to the Bonus Stage.

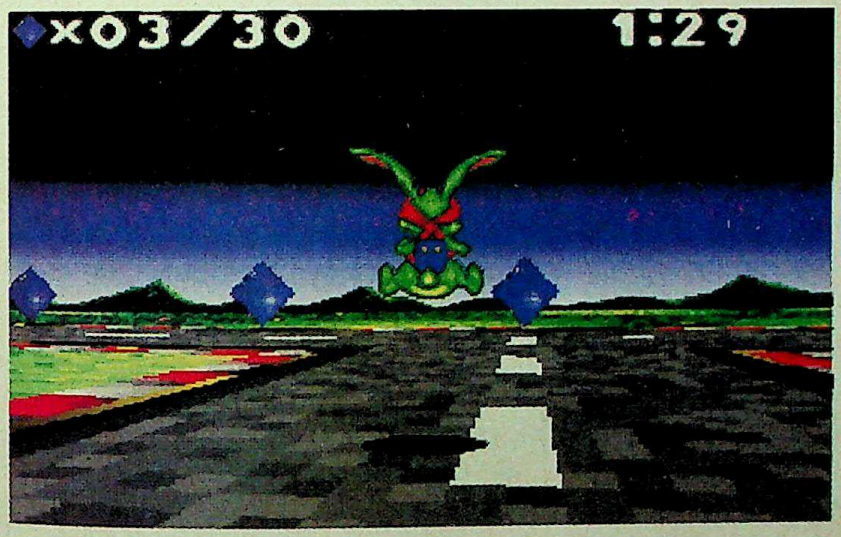
The CD-ROM comes with a colorful manual with Jazz cartoons. A Full Install occupies about 19 MB of disk space. The Partial Instal option was disabled. The first time you run Jazz after installing it, you can choose between English, German, French or Spanish as the setup interface language. The game itself is in English.

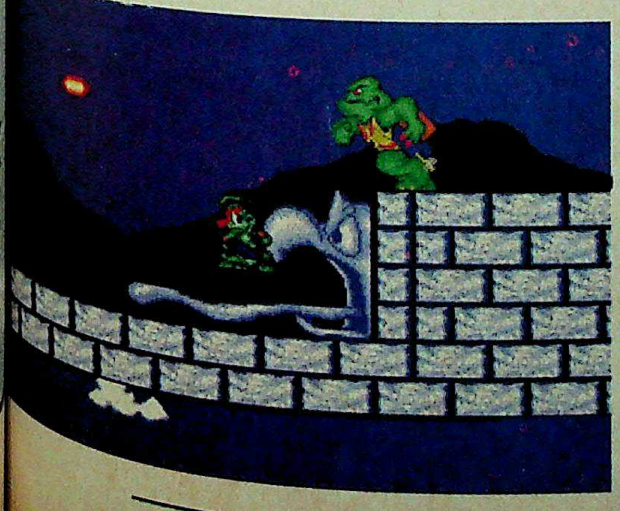
Ten seconds into loading, the Main Menu starts up a full-screen demo. Press Esc in a game, and up pops up a menu with a neat set of features on saving a game, changing volume, or activating slow motion. You can change between low, medium or high for both graphic details or animation colors. However, there was little visible difference on our PCQ Test Lab monitor.

Although this version is advanced compared to its shareware predecessor, it could be better. There's a loud crackling noise on the speakers when you switch between options.

But Jazz's cartoon-like character is sure to appeal to gamers. Unlike the current trend for violent games, Jazz Jackrabbit is an updated tale of the tortoise and the hare, with good clean fun.

Asawari Ketkar





CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Adventures With Edison

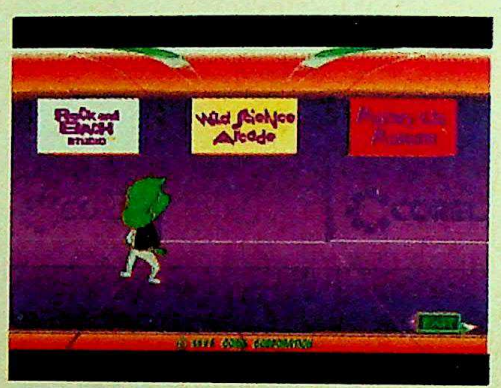
CD ROM

Corel Home: Adventures With Edison ROM for Windows 3.x. Rs 1,19[illegible] E0344. Distributed by SVAM Softwa[illegible] 3320224)

This CD-ROM teaches 7..14 year olds [illegible] of physics, music and logic using [illegible] ctive games.

Three games on science, music and logic

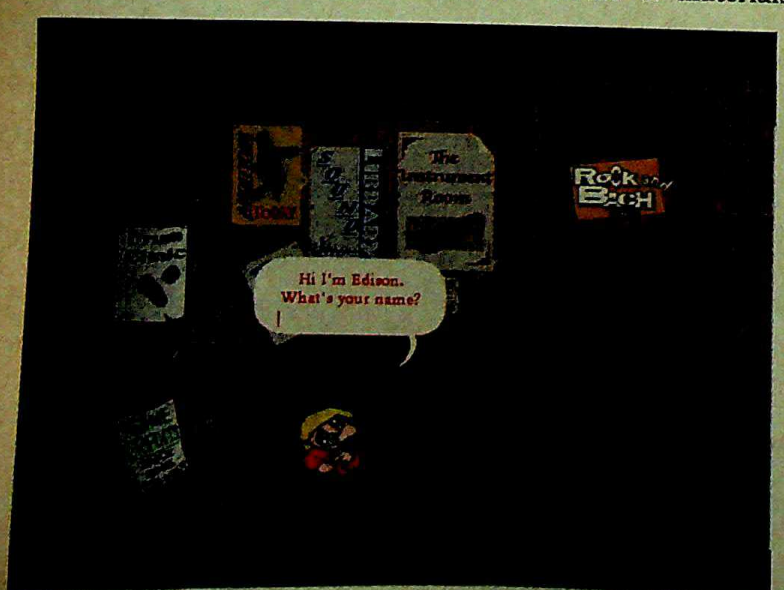
According to the text on this CD-ROM's jewel case, it "makes learning science, logic and music fun for 7..14 year olds". And it's supposed to turn them into Renaissance Kids as well. **Edison** is a Windows-only title. It runs well on Windows 3.1, but it tends to hang the machine if you exit from *Wild Science Arcade*.



The games, *Rock 'n Bach Studio*, *Wild Science Arcade* and *Mystery at the Museum* are interesting and addictive. *Rock 'n Bach Studio* acquaints you with eight famous musicians ranging from Bach to Gershwin and their work. It demonstrates the use of musical instruments in an orchestra, harmony, drums, auditioning a band and even on making your own music video.

Some of the characters you audition for your band can be quite strange. The songs they play, however, are old favorites like "'O Susanna."

Wild Science Arcade is an arcade-like machine invented by Professor Blueman to teach the public in general, and you and Edison in particular, the basic principles of physics. It has many levels of challenging play, and each level builds upon its predecessor. Arcade consists of rooms with arches and you use balls made of materials such as glass, rubber, iron, ice and stone. You must roll these balls and push them into rooms leading to the next level. Of course, its helpful to know the warp speed of each material to lower resistance and increase momentum.



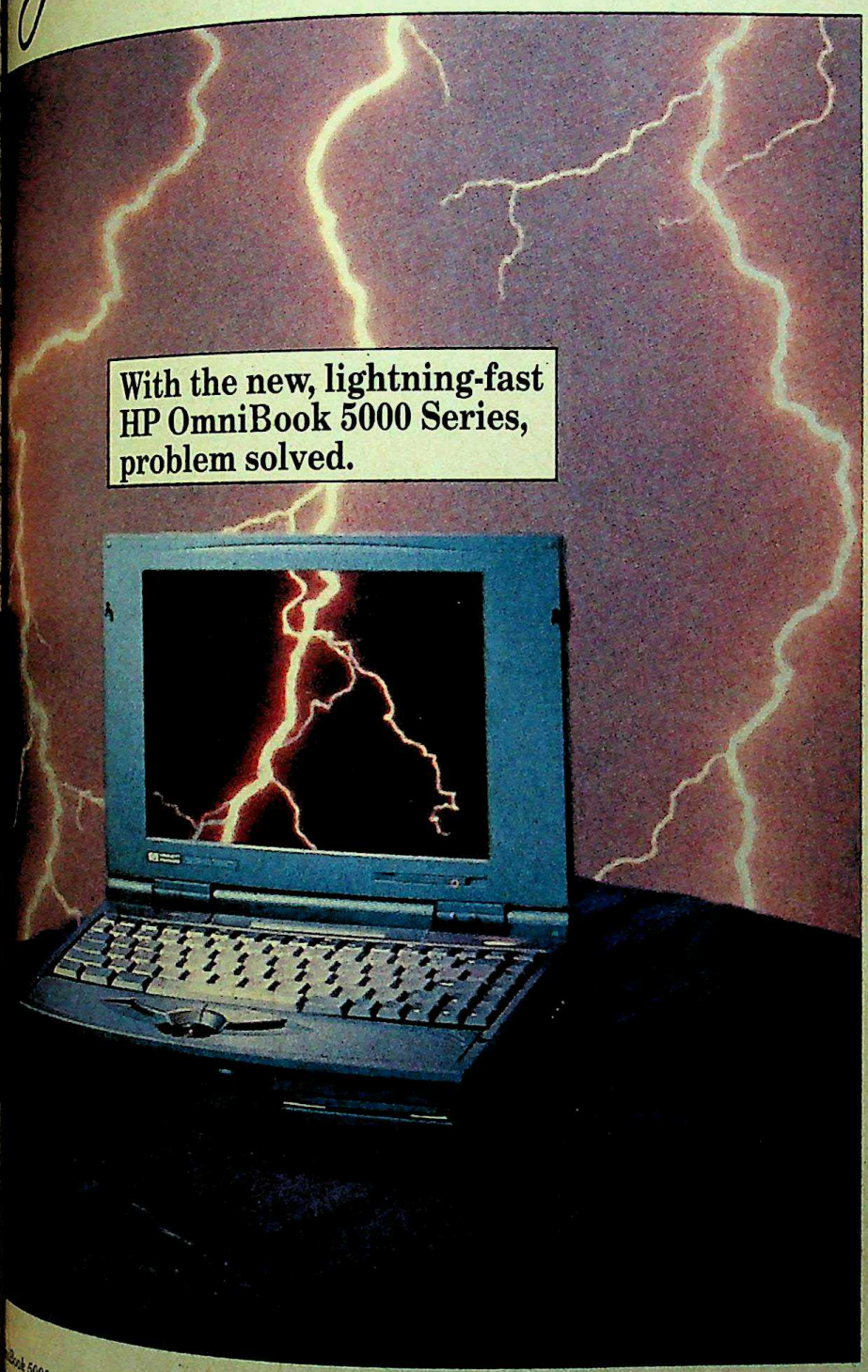
In *Mystery at the Museum*, you and Edison must help Smitty, the cat, locate certain objects he needs in a hurry. To locate these objects, you solve all kinds of puzzles. For instance in the Native American Museum, you need to find two binary numbers which when either added, subtracted, multiplied or divided, yield the number indicated in a box labelled Match. There are also other games where you must rearrange a picture, or find three [illegible]

The keys for *Exit* and *Help* can be found easily in all modules except *Science Arcade*. Only the opening [illegible] has a separate *Exit* button. But press "Q", even in the middle of a game, you quit. Unfortunately, quitting abruptly in the middle of a game can hang your machine. Maybe Corel should put a warning label similar to cigarette packets: "Quitting abruptly while playing is dangerous for your computer".

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

I want the power to blow my competition away.



With the new, lightning-fast HP OmniBook 5000 Series, problem solved.

When you're working with power-hungry applications, your computer's speed can mean the difference between working or waiting.

intel inside
pentium PROCESSOR

Well, you wait for no one with the power of a 120MHz Pentium® processor at your fingertips.

The new HP OmniBook 5000 Series gives you the fastest processing speed, plus dazzlingly clear video and instant screen refresh for ultra-smooth multimedia presentations. The VGA version supports 64,000 colours; the SVGA version has 800 x 600 resolution.

Flexibility is built in with multiple ports for CD-ROM and tape drives, and you can upgrade the hard disk right up to 1.2GB. Plus you can work immediately thanks to the auto-configure support of Plug & Play.

If you thought the first OmniBooks were fast, this one will blow you away. Who says lightning doesn't strike twice in the same place?

For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST at (011) 6226420** from your fax machine or touch-tone telephone, and request document ID number 90254.

- True instant-on
- PCI Bus Architecture
- L2 Cache (256K)
- IrDA infrared communications
- Two-level password protect
- Rechargeable Lithium-Ion battery
- Optional second battery
- Fast graphics

HEWLETT PACKARD

*Book 5000, 5/75 VL, 8 MB/540 MB with 1 year warranty - Rs. 2,05,500.**

Packard India Ltd., Paharpur Business Centre, 21 Nehru Place, New Delhi-110 019. Tel : 6472311, 6472328-30.
Dealers : • **CMS Computers Ltd.,** Bangalore : Tel : 5586790. Bombay : Tel : 2851580. Calcutta : Tel : 408949. Delhi : Tel : 6912036. Hyderabad : Tel : 848336. 4959629. 620225. Hyderabad : Tel : 620483. Madras : Tel : 4349620. **Electronics Corporation Of India Ltd., Computer Group,** Bangalore : Tel : 2267082. Bombay : Tel : 4227492. Calcutta : Tel : 2429181. 2836111. Delhi : Tel : 6846331. Hyderabad : Tel : 201876. Madras : Tel : 6257331. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. 2826564. Calcutta : Tel : 2476120. Delhi : Tel : 6444293. Secunderabad : Tel : 814525. Madras : Tel : 8276242. **Computers Ltd.,** Bangalore : Tel : 2264999. Bombay : Tel : 8377300. Calcutta : Tel : 4753872. Delhi : Tel : 6841147. Madras : Tel : 4349661. Tel : 612494.

Pentium processor logos and Pentium are registered trademarks of Intel Corporation.

** Estimated street price. Local taxes and levies extra.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LearnIT Windows 95 Interactive Training

A good choice for those in a hurry to learn Win95

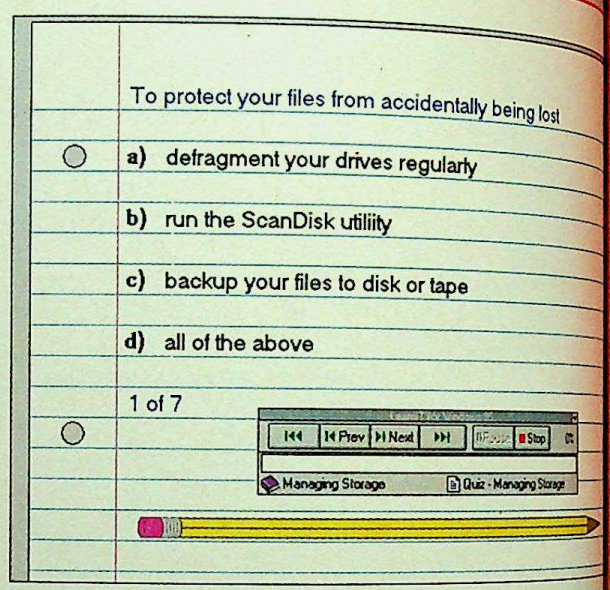
CD ROM

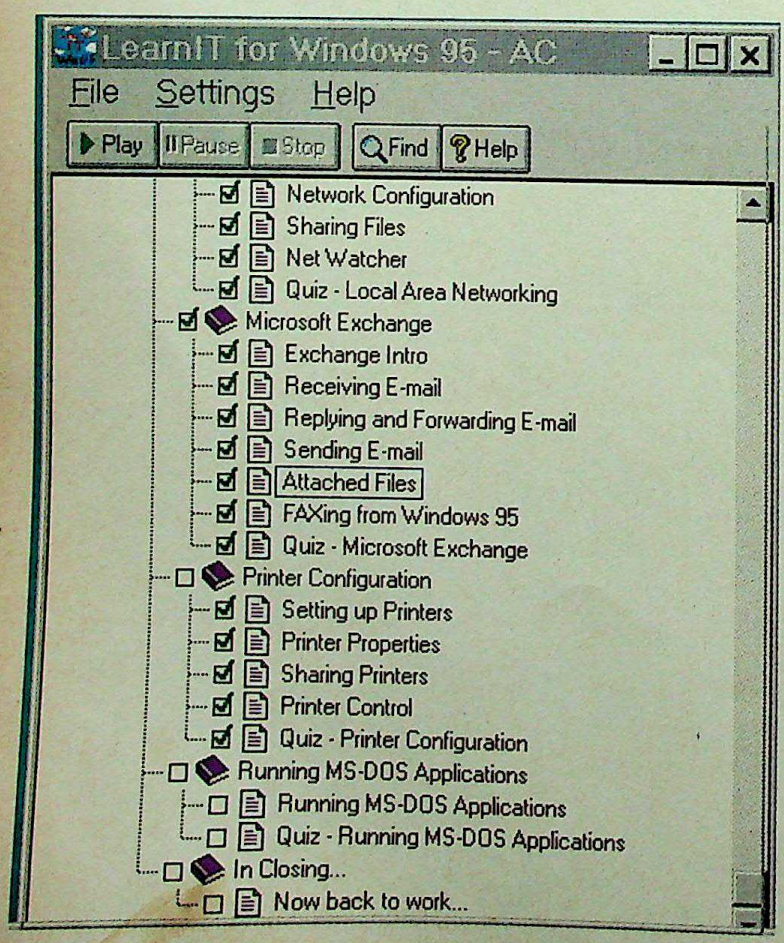
Learn IT Windows 95 Interactive Training
Tech Publications. Set of 2 CD-RO
any current version of Windows.
Two CD-ROMs featuring interactive
from the basics of Windows 95 usag
as how to use the new desktop
Explorer etc to advanced topics
network configuration.

RQS#E0328

Many seasoned Windows users have found the feature-packed but unfamiliar feel of the Win 95desktop difficult to work with—at least at first. This set of two CD-ROMs is an interactive step-by-step introduction to Windows 95 and its workings.

The lessons are arranged neatly in a table of contents beginning with the basics and moving on to the complex. You can click on any topic to start from, but you can just as well begin from the beginning and work right through. Two hosts lead you step by step, stopping for tests with multiple choice questions—some of which are rather obvious but some which are nice enough. A small control panel stays with you at all times so you can move back and forth across topics and be prompted on what to do next. Disk 1, Moving to Win 95 has topics ranging across how to use the desktop r shaking yourself out of the Windows 3.1 hangover; the Taskbar; the way files are arranged in folders; objects Start button and how to use it; moving into its menu wit programs, documents, and settings options through to down; the Windows Explorer and how it goes beyond th File Manager we all know and love; the Recycle Bin; wh do—and what not to do—with the My Computer group shortcut feature; the Briefcase and printing from Windows Disk 1 quickly makes you comfortable enough and arms you what you need to know to resume working on your PC installation is complete.





Stop for a test while you learn how to use the Win95 desktop

Disk 2 moves on to using the desktop efficiently by organ files and folders and so on. There are advanced Explorer to such as registered file names and properties of Objects. are lots of tips and warnings: how to install hardware software, including Win95 programs; managing the stor data and dealing with crashes, network configuration, p configuration and Microsoft Exchange.

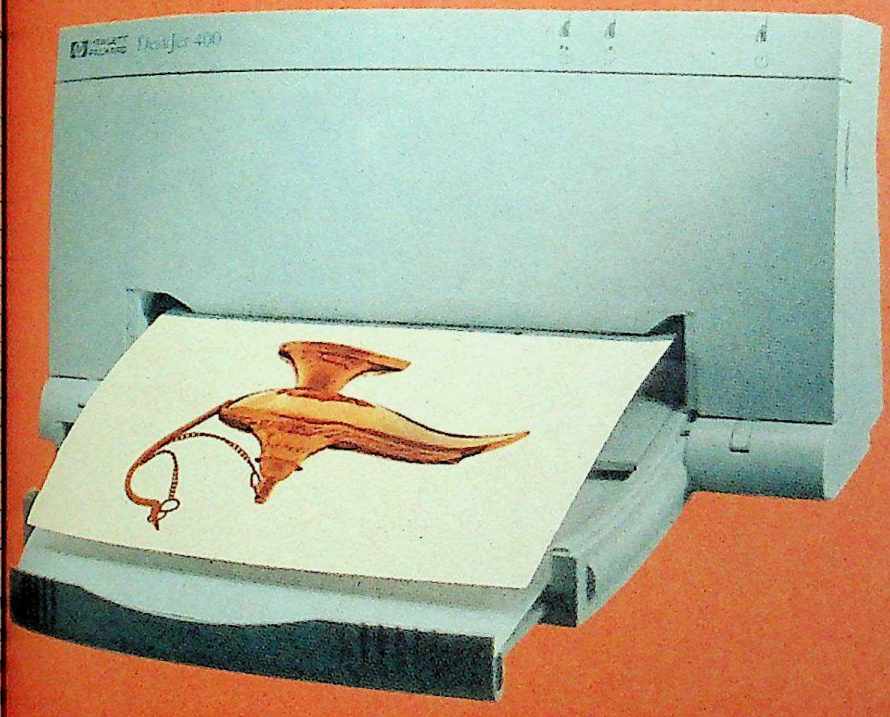
These disks are worthwhile if you want to familiarize you with Windows 95 in a great hurry—or if you don't enjoy o to waste time exploring software on your own.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Incredibly low price. Colour capability. Great print quality.

FOR JUST RS. 11,900*



Great quality printing

Rs. Rs. Rs. Rs.

Breakthrough price

HP ColorSmart technology

The HP DeskJet 400 unleashes the magic of world-class printing right on your desktop. For just **Rs. 11,900*** you get incredible print quality from a full-featured Desktop printer. You can even print in colour by simply adding a colour cartridge. And if that's not enough, you get the world leader's promise of quality, reliability and service. With the HP DeskJet 400 you couldn't wish for more.

For further information please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP FIRST Fax Service on (011) 6226420** from your touch-tone telephone or fax machine, and request document ID number 90202.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

HP DJ 400 makes all three wishes come true.

*Maximum Retail Price.

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.

Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Chennai : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Mumbai : Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. **Larsen & Toubro Ltd.,** Bangalore : Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. New Delhi : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 5511808. Bombay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. **Pertech Computers Ltd.,** Bangalore : Tel : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. **Wellington (India) Pvt. Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi: Tel : 6446935. New Delhi : Tel : 6923224. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313.

MAA Bozell-HP-84-96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Way Things Work

A fact-and fun-packed workshop on machines and scientific principles

CD ROM

The Way Things Work. CD-ROM for Win 3.1 and 95 from Dorling Kindersley Multimedia. Rs.

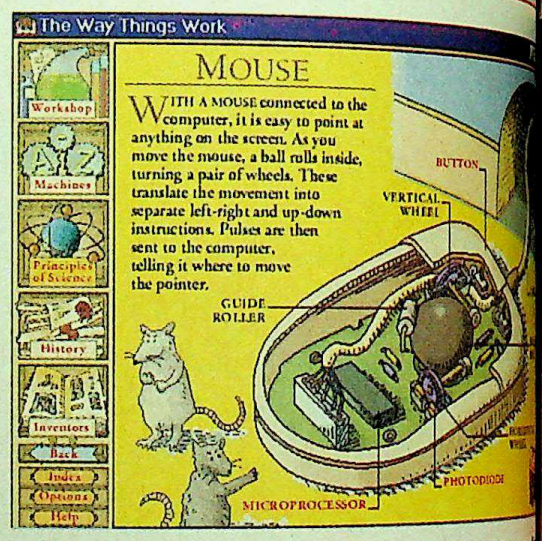
RQS#E0326

Interactive and informative CD-ROM based on David Macaulay's book. Features workings of machines and scientific principles. Has sections on famous inventors, and a set of short animated movies that are a delightful way of learning the basics of how things work.

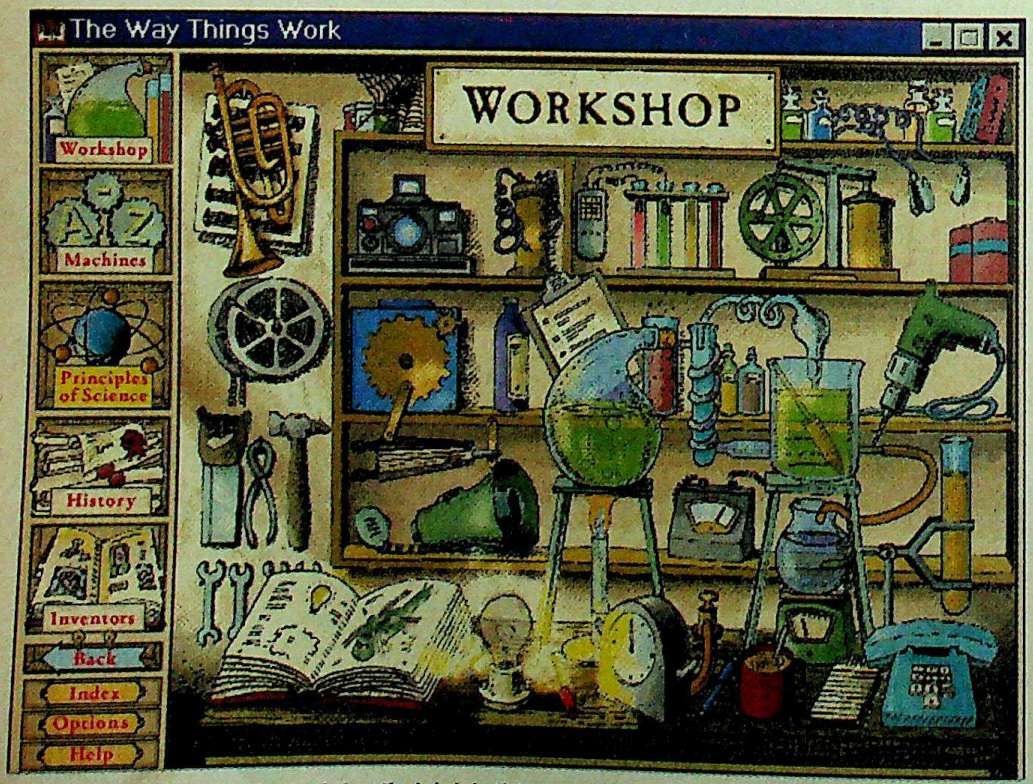
Sitting on the shelves of this workshop are machines. Electric bulbs, loudspeakers, tools... Click on them and they promptly work. If you want to know how, select a machine from the A to Z of Machines index and you'll find pop up text windows, narrations and animations on microwave ovens, hair dryers, modems, disk drives, hydraulic drills, musical instruments—to name a few. The animations are well done and you can see exactly what happens in the innards of machines when they work.

The Machines module is really the CD-ROM's main module, with others cross-linking to it. In the Scientific Principles module you can learn the basics about pressure, gravity, motion and so on and how these are put to work on related machines.

A History option takes you briefly through the Industrial Revolution, the Steam Age and the Silicon Age, again linking to machines that came from these periods. The Inventors option has short biographies.



The insides of a mouse detailed for you... out how mice work.



See and hear these gadgets doing their job in this workshop.

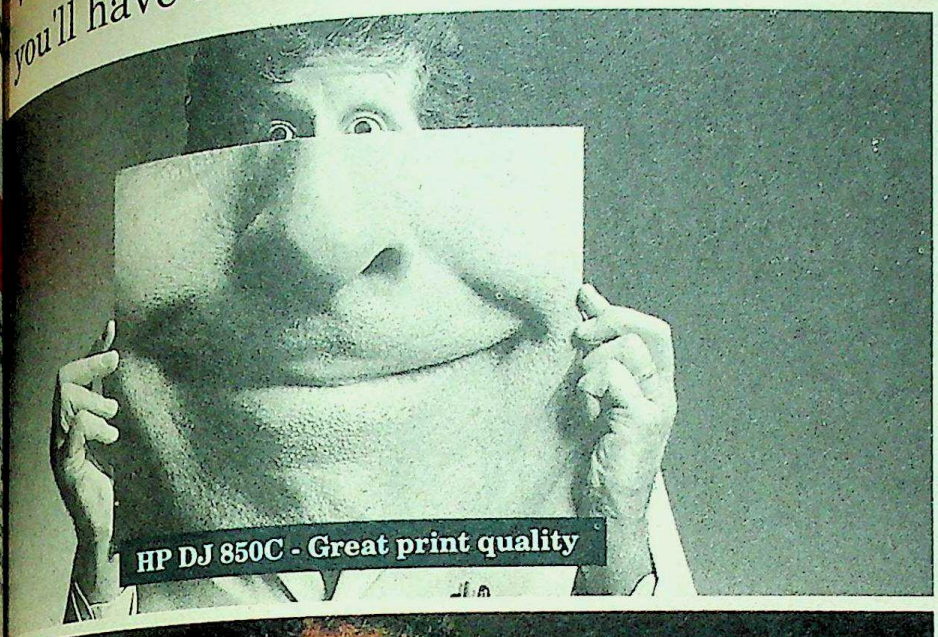
The information on this CD-R... not only well put together, ... entertaining—the right balan... multimedia and information co... together in definite edutainment ... are flashes of humor right thr... with the best part being the Mo... Movies you can chose from. These ... set of really delightful little anima... starring The Great Woolly Mam... the inventor's assistant and your ... on this CD-ROM.

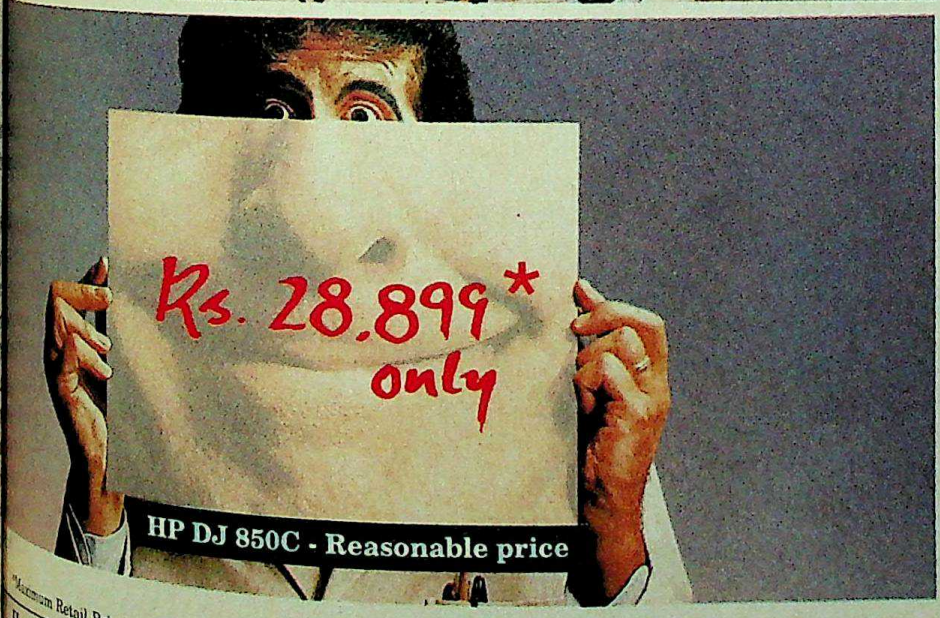
This CD-ROM from the D... Kindersley set of nine, is undoub... useful for both children and adu... is based on a book by David Ma...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

With the HP DeskJet 850C, you'll have many reasons to smile.





*Maximum Retail Price.

600
Clear sharp
600 x 600 dpi black

HP ColorSmart technology

HP DJ 850C

The HP DeskJet 850C certainly gives you a lot to smile about. It puts a professional touch to your black and colour printing at a speed that's as fast as a laser printer. Furthermore you get the legendary HP reliability and service. All this for just **Rs. 28,899***. With the HP DeskJet 850C you'll be all smiles.

For further information, please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machine or touch-tone telephone and request document ID number 90300.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.

Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Madras : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Bombay : Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. • **Larsen & Toubro Ltd.,** Bangalore : Tel : 5511808. Bombay : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Madras : Tel : 8522141. New Delhi : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. • **Pertech Computers Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi: Tel : 6446935. • **Redington (India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313. New Delhi : Tel : 6923224.

MAA Bozell-HP-89-96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Eyewitness Encyclopedia Of Science

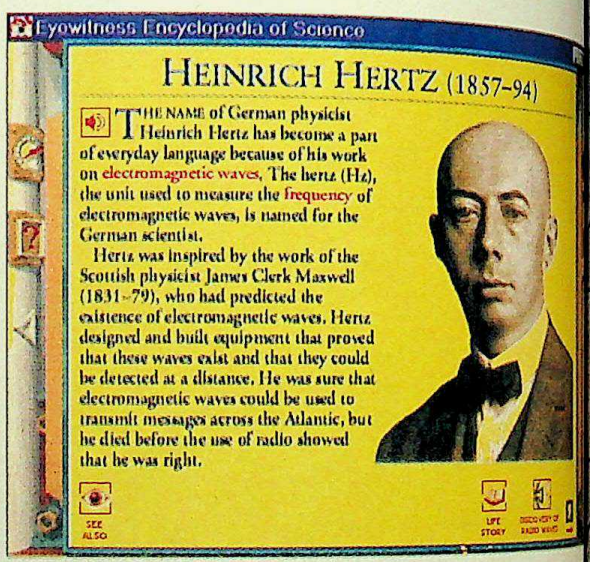
CD ROM

Eyewitness Encyclopedia of Science
Dorling Kindersley Multimedia. CD-
for Windows 3.1 and 95. Rs. 2999
RQS#E0324
CD-ROM reference guide to general
Has brief introductions to
Chemistry, Mathematics and Life
The Universe, a Who's Who
quizzes.

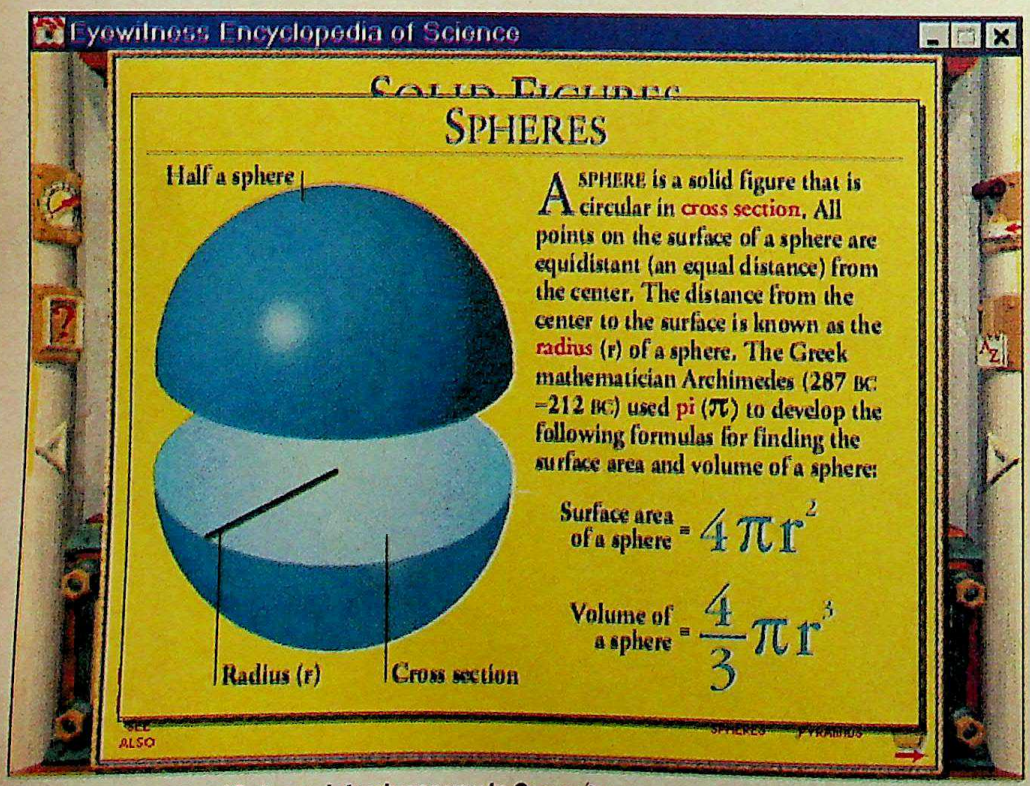
A guide to the scope of science subjects

A bit like the introductory pages of your science text books all clipped together, this CD-ROM introduces you to what science is about. Mathematics, Physics, Chemistry and Life Sciences are all featured, but this is a guide to the scope of these fields rather than an exploration of them.

Mathematics, for instance, briefly defines Arithmetic, Geometry, Algebra, and Trignometry leading into pop up text on the basics of numbers such as fractions, square roots and so on. There is a maths reference and a section on graphs and charts. In the same way, Physics is scoped out in texts on electricity, time, light, force, motion, heat, machines, sound etc. Each topic has a small page of text to it, occasionally with



The Who's Who in the Encyclopedia of Sci



The Encyclopedia of Science introduces you to Geometry.

narration. Chemistry has optics molecules and compounds, org chemistry, elements, reactions etc. Sciences options include Bio Zoology, Microbiology, Botany Evolution and the Continuity of with introduction to the main t within these fields. There is also a Master and an alphabetical Who's section and a useful Periodic Tab

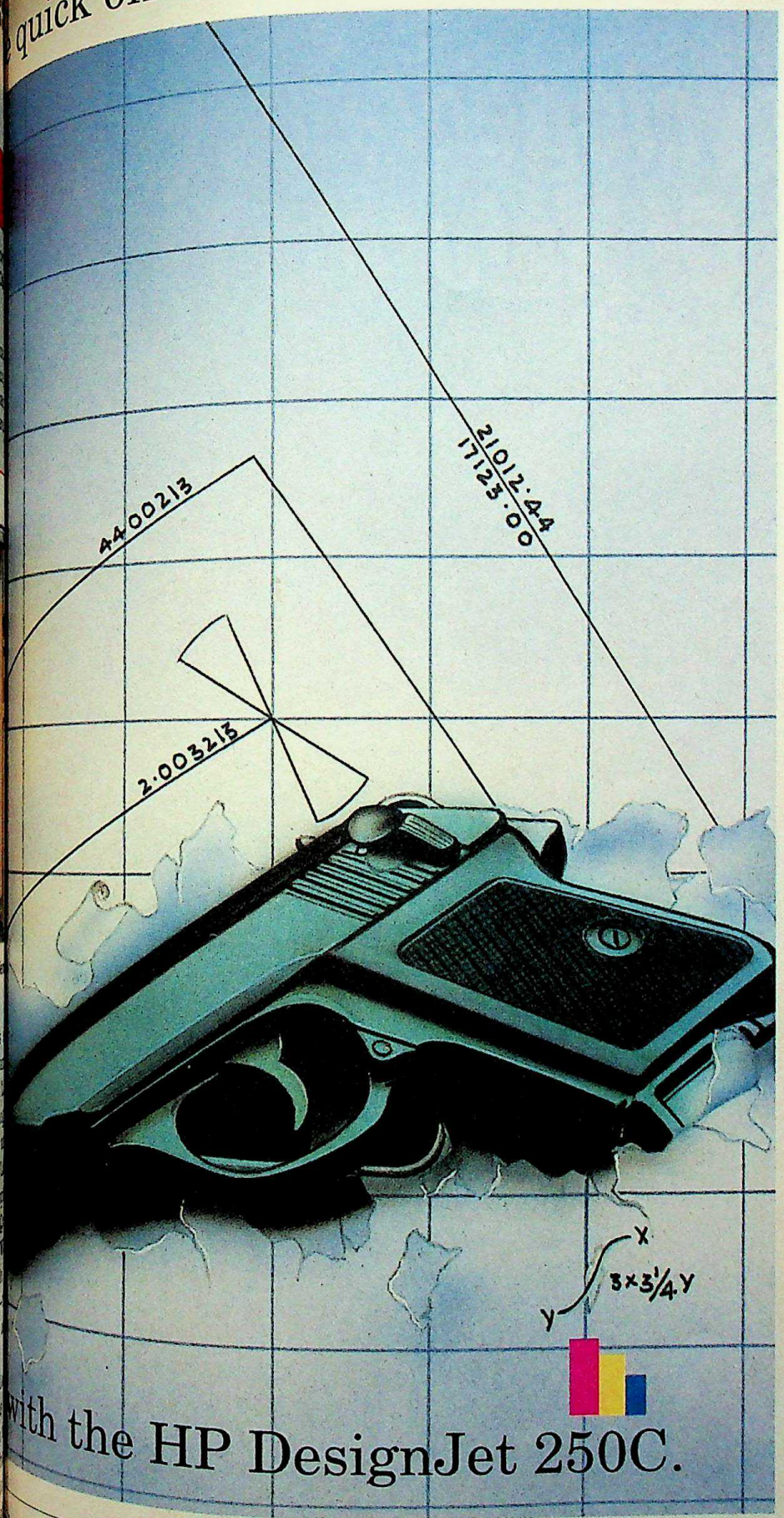
There are some Universe topics Solar System, Stars, the Big Bang the Earth.

However, there are no brill photographs, videos or animation speak of and there is no relief from dry and uninteresting manner in the content is delivered, very multimedia, in fact. The CD is rather overpriced for the amount information it doesn't have!

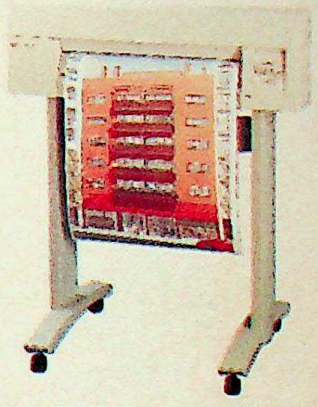
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Whatever you're Plotting, be quick on the draw...



...with the HP DesignJet 250C.



HP DesignJet 250C

When it comes to your plans and plots, you require a plotter that does it's job and let's you get on with your's. Presenting the HP DesignJet 250C, the plotter that brings you top-quality colour plotting, great speed and printing on plain paper too.

The HP DesignJet 250C let's you be quick on the draw, with D-size plots in under 3 minutes. With it's superior print quality (600 dpi monochrome and 300 dpi colour), and the HP reliability, all at an incredible price, you couldn't ask for more.

If your projects require only monochrome plotting, the HP DesignJet 230 is available at an even more down to earth prices.

For more information, please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machine or touch-tone telephone and request document ID number 90246 for HP DesignJet 250C/ 230.

HP Plotters.
Setting new standards.

HEWLETT® PACKARD

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.
Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. New Delhi : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Tel : 2596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Tel : 2226984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293.
Peripherals Pvt. Ltd., Bangalore : Tel : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218.
Computers Ltd., Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi: Tel : 6446935.
(India) Pvt. Ltd., Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313.
Tel : 6923224.

MAA Bozell-HP-81-96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Encyclopedia Of Nature

An interactive fact-filled reference guide to nature

CD ROM

Eyewitness Encyclopedia of Nature from Dorling Kindersley. Multimedia CD-ROM for Windows 3.1 and 95. Rs.1999. Comprehensive and informative, this CD-ROM is more encyclopedia than Multimedia. It features animal and plant life, climates, habitats, and sections on the web of life and effect of human activity on the planet.

RQS#E0325

Your entree to the Encyclopedia of Nature has lots of options. Take the controls at the Naturalist's Console and spin the globe... this is a comprehensive guide to the world of animals and plant species and their habitats.

Slide open drawers to learn facts about Amphibians, Reptiles, Mammals, Insects, Birds, Plants and Fungi. Write-ups, narration, photographs, animations and enlargeable videos bring the information to life. There are hyperlinks to details, fact files and to related topics. A detailed index lets you pick specific topics and items of interest.

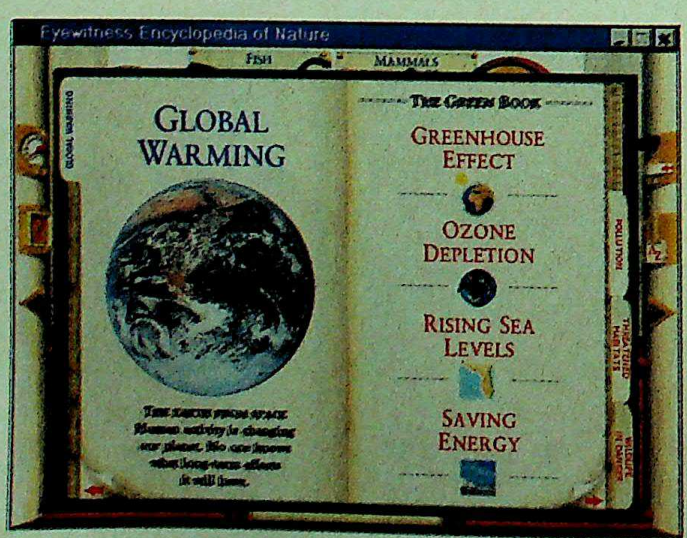
On the globe, you can visit Habitats. These are probably the best bit—full screen and more, since you can use a sliding panel to scroll to see more of the picture. You can use a magnifier to close in on details. There is a menu for facts about the balance of life in the selected habitat, the food web there, and the climate. Clicking anywhere on the habitat screen will also lead you to information. There are brief menus on Prehistoric Life and Microscopic Life.

There are two little books on this CD-ROM. The Web of Life explores the Biosphere: life levels, biomes and ecosystems. It has information on the natural cycles of water, nitrogen, carbon and oxygen, energy flow and small chapters on social animals, communication, symbiosis and parasitism. The Green Book is about human activity affecting the planet including global warming, the greenhouse effect, rising sea levels, etc. Pollution, threatened wildlife and habitats are also featured.

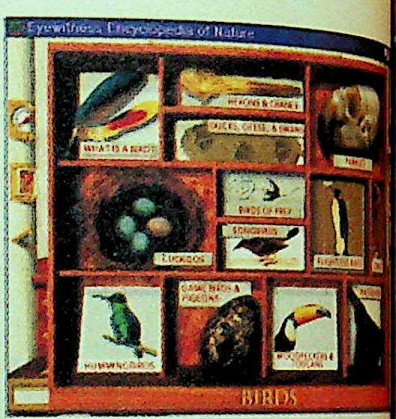
You can stop for a quiz using the Quiz Master, for one or twoplayers.

Slightly multimedia and more encyclopedia, this CD-ROM has more information than gimmickry.

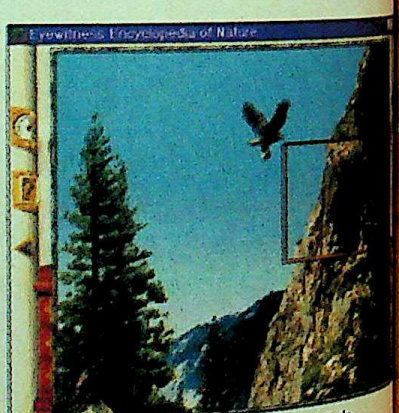
Dorling Kindersley, whose web site you can visit at http://www.dkfl.com/ have a set of nine CD-ROMs, all of which you can sample on a compact disk that comes with the Encyclopedia of Nature.



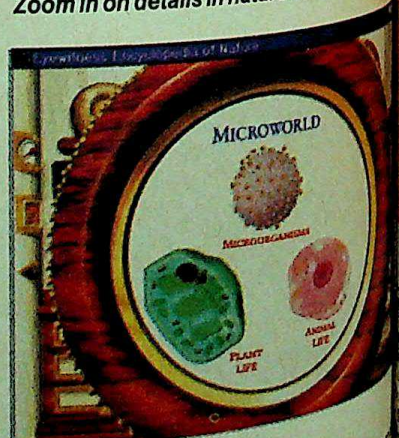
Green Book



Pick a bird from the shelf on the Encyclopedia of Nature



Zoom in on details in natural habitats.



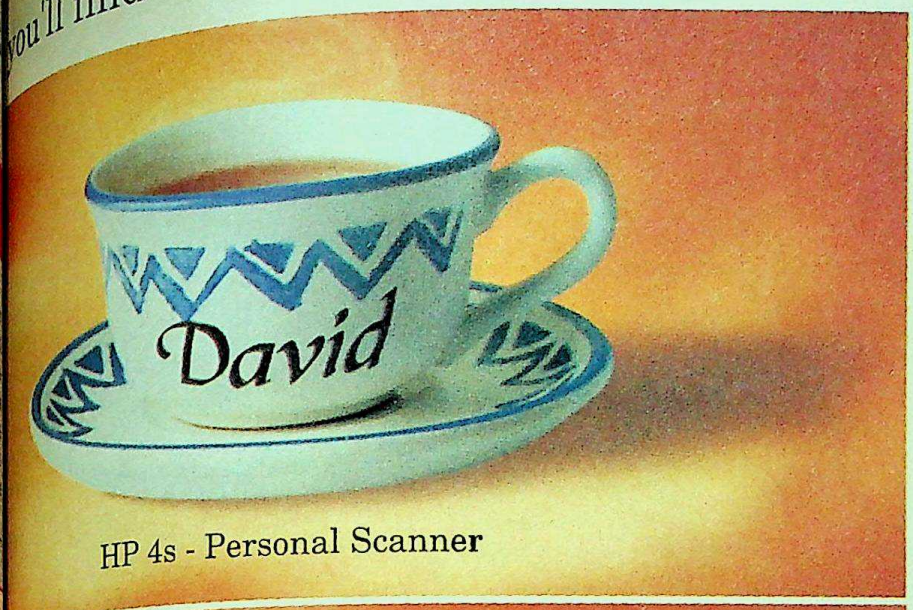
Microscopic world menu

Mala Bh

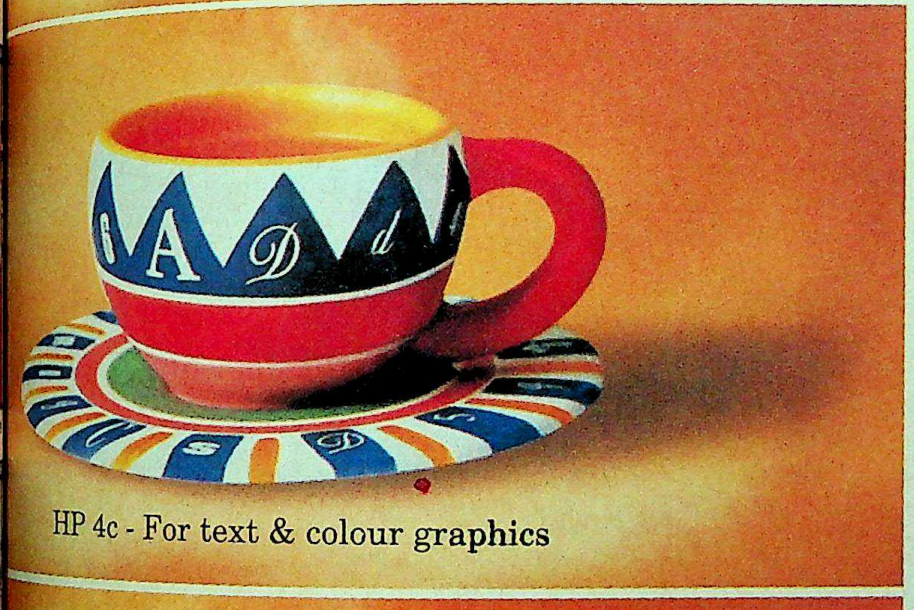
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

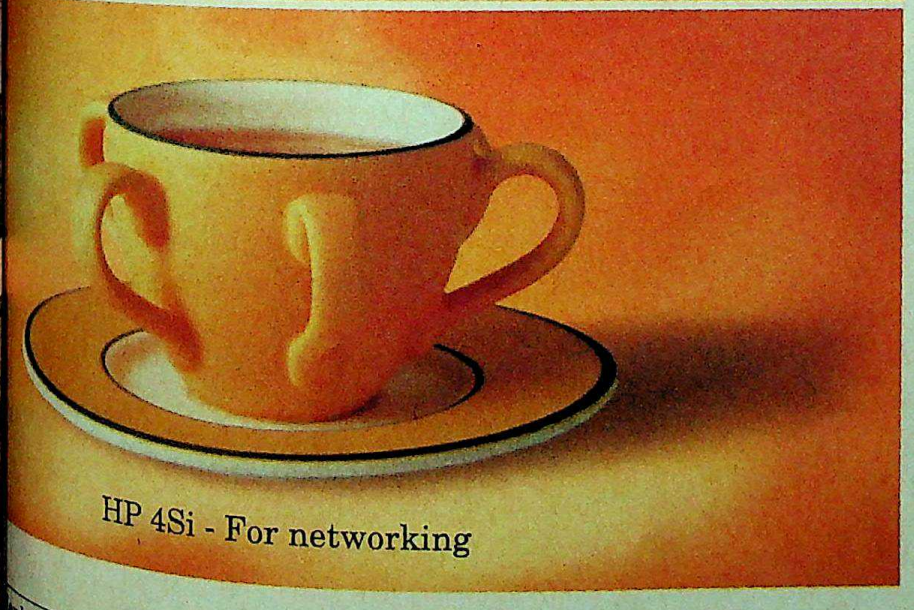
With HP's range of scanners, you'll find one that's your cup of tea.



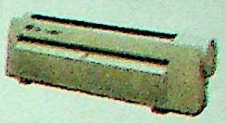
HP 4s - Personal Scanner



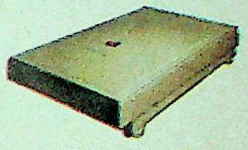
HP 4c - For text & colour graphics



HP 4Si - For networking



HP ScanJet 4s
ID No. 90210



HP ScanJet 4c
ID No. 90211

HP ScanJet 4Si
ID No. 90212

If finding a scanner that suits your taste is a problem, HP has some good news. Now, with our new HP ScanJet 4s, 4c, and 4Si, we have a range of scanners to satisfy every need.

Scanners for storing and sharing information. For high quality text and colour images. And networkable scanners too. The HP ScanJet range caters to a variety of tastes. Furthermore, all HP scanners let you add and edit text before sending it electronically. So, no matter what your preference, HP has a cup just for you.

And that's not all. Each product is backed by HP's legendary quality, service and reliability.

For more information, please contact any of our dealers listed below. Or, to receive product data sheets, please call **HP First Fax Service at (011) 6226420** from your fax machine or touch-tone telephone and request document ID numbers as indicated above.

HP Printers.
The way the world prints.

HEWLETT® PACKARD

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472311, 6472328-30.

Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Bombay : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. : Tel : 4349620. New Delhi : Tel : 608225. • **Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. 297 Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 6257331. New Delhi : Tel : 6846331. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Madras : Tel : 8276242. New Delhi : Tel : 6444293. **Tourbro Ltd.,** Bangalore : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 561732. Calcutta : Tel : 749754 . New Delhi : Tel : 6940218. **Computers Ltd.,** Bangalore : Tel : 5585025. Bombay : Tel : 4224143. Madras : Tel : 8258485. New Delhi: Tel : 6446935. **(India) Pvt. Ltd.,** Bangalore : Tel : 5538032. Bombay : Tel : 2832478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313. Tel : 6923224.

MAA Bozell-HP-82-96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Howzzat!

A well-designed, attractively-priced package for the cricket buff by ace cricketer Anil Kumble

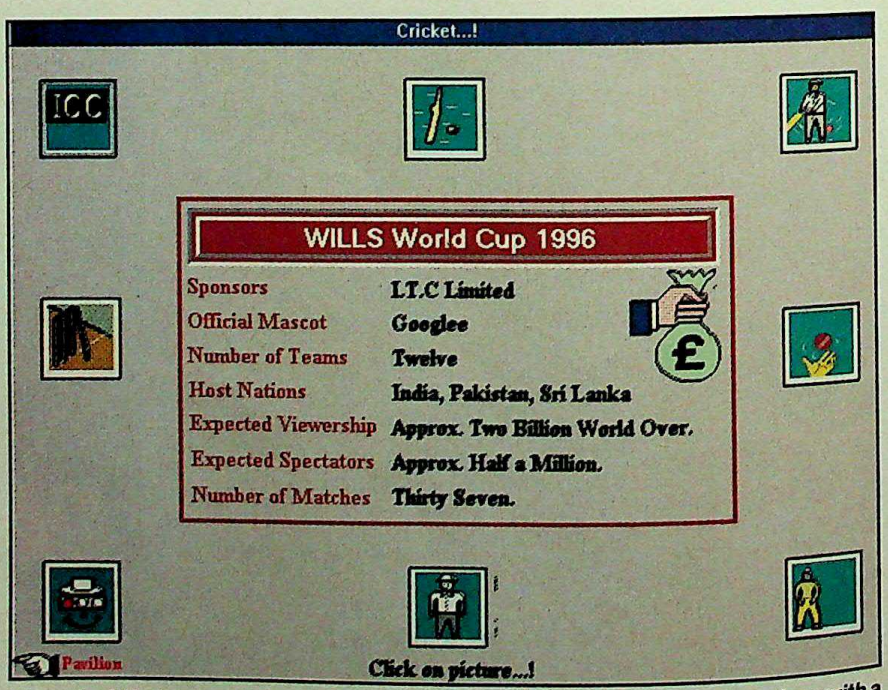
A few software packages are well designed, and a few are available economically, but Howzzat manages to meet both the above clauses. Priced very economically at Rs 600, the package is easily useable by any cricket buff with a PC running Windows.

The package comes in just two 3.5" floppies with a small manual of just nine pages. However, the manual more than makes up for its small size with its clear-cut no-nonsense description of the package and its caricature-rich presentation.

The package is conveniently divided into two modules, with the first one dedicated to cricket as a game in general and details of the history of the World Cup in particular. It contains some material specific to the current Wills World Cup like the details of the participating teams, individual players and umpires and the various venues involved besides the itinerary of the Wills World Cup. The *Cricket* icon provides some rudimentary details of the game, useful for newbies. The flashback module gives details of previous World Cup matches and also contains visuals of the winning captains holding aloft their respective trophies. A photo gallery is also included and contains details of key players in the past World Cups. Other details presented include details of the various participating countries, the various venues and player's details.

The second module is Wills World cup specific and contains provision for entering match details and other information that becomes available as the matches proceed. A proceedings icon allows users to enter match-specific details like the date, venue, round, umpires, etc. The scoreboard icon presents the scores of a particular match and also batting and bowling averages. Probably the most interesting feature is the statistics icon that gives the run rates, the man of the match award details, top bowler/batsmen details, etc.

Good though the package is, there are a few mild inconsistencies. For starters, clicking on the "Finish" icon in module two exits to module one instead of returning to Windows. A better approach would have been to use a pointing hand to flip between the two modules as opposed to just from m... one to two. Another mild problem ... absence of clearly marked exit b... For example, if y... on "Cricket" in th... module and then ... on another Icon ... "Batting"), you g... tails of batting—b... way you exit is by ... ing the mouse. T... you can get used ... in a short while ... mildly irritating ... ever, some of the ... resting features ... package—partic... the animated ... example, if you ... the fielder in the ... right corner of the ... the fielder jump... ball, catches it ... "Howzzat!" wh... icon)—more than ... up for such minor ...



Though a Windows package, Howzzat! has a slightly non-Windows-like interface with a few twists—the various icons depicted above are animated to an extent. Fr example, if you click on the batsman in the top right, he will swing his bat mimicking a shot before the pertaining option is executed

THE SPECS

PRODUCT: Howzzat!
TYPE: Windows based Cricket pack...
REQUIREMENTS: 386 or higher with m...
4 MB RAM and 40 MB disk space ...
Windows 3.1 or higher.
DISKS: Two 3.5" floppy disks.
DOCUMENTATION: One nine-page ma...

FEATURE: Cricket package specia... designed for the World Cup with sp... modules to allow users to enter deta... the concerned matches; simple, ... friendly design; also contains ge... details pertaining to Cricket.

PRICE: Rs 600.

SUMMARY: A neat package for Cr... buffs. Both the price and the mi... system requirements make this pack... must-have for all Cricket fans.

DEVELOPER: D'n A Systems, 54... Cross, Kanakapura Road, VII Block ... Jayanagar, Bangalore 560082 Tel ... 640781, 6639655 Fax: 080-6639655

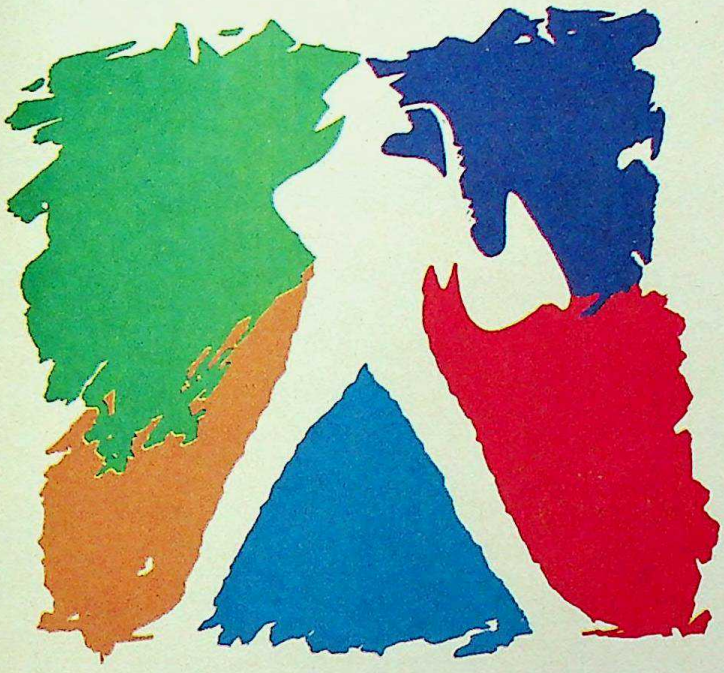
Reader Query Service #E0334

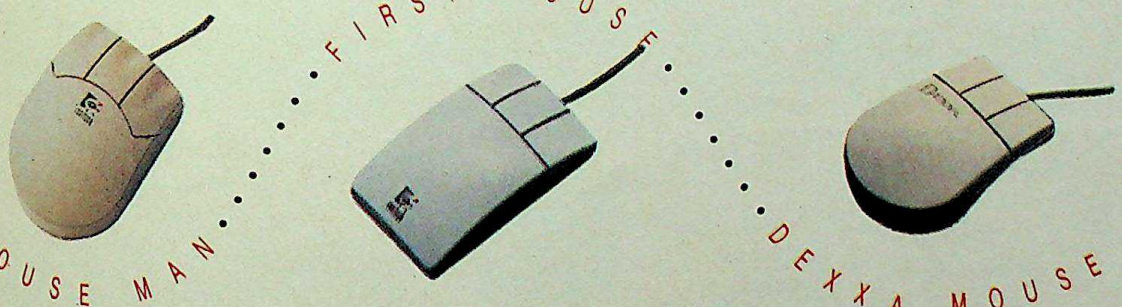
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LOGITECH

ENJOY YOUR Work





...orized Distributors

INTRON
INDUSTRIES LTD.

F-34, Okhla Industrial Area, Phase I, New Delhi - 110020. Ph : 6814520/6811980/6817981/6813680. Fax : 6810460. Telex : 031-75433 ELEC IN.

Branch Offices : Ahmedabad : D-33, Someshwara Flats, Ph : 6741541; **Bangalore :** 207, 2nd Floor, Midford House, No. 1, Midford Gardens, MG Road, Ph : 5582046/5597186. Fax : 5582046; **Bombay :** 214, Arun Chambers, Tardeo, Ph : 4939905/4949905. Fax : 4939905; **Madras :** No. 38, Madhvan Nair Road, Mahalingapuram, Ph/Fax : 8262658.

QUALITY RELIABILITY TRUST FOR YOU

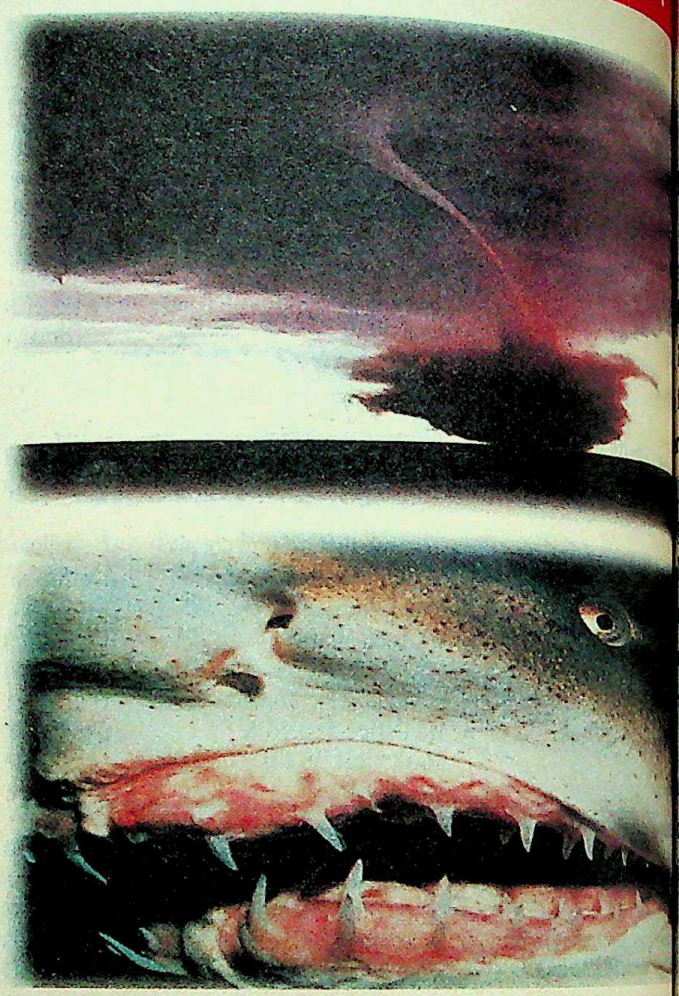
DEALER ENQUIRIES SOLICITED

...AT AGRA. 52715, 360562, 351381. **AHEMDABAD** : 407825, 6740191, 6743863, 6569176, 6568784, 440927. **AKOLA** : 40051, 430721. **ALLAHABAD** : 607454. **ALWAR** : 71330. **AMRAVATI** : 73166, 78165, 77445. **ANAND** : 24222. **BANGALORE** : 5582064, 5597186, ...UR. 72172. **BIJNOR**. 62719. **BIKANER** : 23541, 26600. **BILASPUR** : 21030, 3880. **BOMBAY** : 3083011, 3098021, 8213636, 8394470, 389480)/01/02, 3072272, 3088194, 3072918, 3098794, 3060255, 2062755, 2062756, 4073300, 4094400, 4094277, 5135953. **BORADABAD** ...CUTTA. 269450, 260522, 257940, 259895, 2202768, 2425716, 2425717, 2433972, 261451, 265500, 483483. **CALICUT** : 60171, 65009. **CHANDIGARH** : 702538, 705998; 700512. **CHANRADPUR** : 21995, 21438. **COCHIN** : 366234, 369 741. **DEHRADUN** ...HURLI. 37681, 357026. **HYDERABAD** : 307901. **ERNAKULAM** : 04854-225478, 349537. **ERODE** : 213435, 210308, 73908. **GANGTOK** : 22543, 22279. **GHAZIABAD** : 8-754329. **GONDIA** : 24760. **GUWAHATI** : 540680, 547715, 524418. ...KOTPUR : 30796, 38229. **KANPUR** : 319916, 319056, 317755, 313530. **KOTA** : 27634, 420165. **LUCKNOW** : 220469, 218350, 272211, 245503 **LUDHIANA** : 456891, 455860. **MADRAS** : 4349202, 4349454, 4349781, 835615. **MANGALORE** : 26822, 31341. **MEERUT** : 6431541, ...NA : 51696, 51369. **MORADABAD** : 20528. **MUZAFFARNAGAR** : 403274, 409814. **MUZAFFARPUR** : 241957, 249776. **MYSORE** : 510555, 512555, 516555, 515489. **NAGPUR** : 520200, 538786, 40401, 45614, 238629, 227218. **NAJIBABAD** : 20358. **NASIK** ...ROURKELA : 326177, 508267. **SANGLI** : 76348, 78855. **SATNA** : 23631, 23542. **SHAHJAHANPUR** : 22976, 22078. **SHIMLA** : 212386. **SURAT** : 683002, 621740. **TRIVANDRUM** : 0471-61913, 462116. **VARANSI** : 312884, 312780, 361585. **VIDYANAGAR** : 32816 ...A : 535920. **VISHAKAPATAM** : 535920.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ZOOM *fax* MODEMS can endure long ho
natural disasters and other forms of abuse.



No wonder they're backed by a 7 year warranty

When it comes to high-speed data communications, only Zoom's rugged fax modems have shown they can brave the elements. Though they were designed to perform in the most demanding environments, they are tough enough to operate over the poorest telephone line conditions. Take the Zoom VFX 14.4V & VFP 14.4V Voice fax modems for instance. They provide integrated voice storage and playback, fax & high-speed data communications in an amazingly affordable product. Or the Zoom V.34I & V.34X fax modems which provide 28,800 bps uncompressed data transmission. Or the Zoom Comstar Speakerphone voice fax modems. Or the Zoom Wireless PCMCIA 14.4C V.34C fax modems. They all have more options than other modems available in the market. If that doesn't impress you, Zoom's unbeatable 7-year Warranty* will! Call us for more information.

Because in the world of high-speed data communications only the strong survive.

Marketed & Serviced by:

ADROIT TECHNOLOGIES INC.

P. O. Box : 4944, B-4/115, Safdarjung Enclave, New Delhi-110 029
Phone : 6871353/6871553/600132 Fax : 91-11-6117576
E-Mail : zoomdel. adroit @ sm8. sprintrpg. sprint. com
zoomdel. adroit @ axcess. net.in

*Manufacturer's carry-in Warranty

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Quest's Free Reader Query Service

ll find an RQS num-
against products
en about, reviewed
vertised in this is-
For more informa-
from the manufac-
or distributor of
product, free of
ge, just enter that
er in the Reader
y Service card.
your name and
ss clearly, in capi-
letters. Please re-
er to fill in the is-
onth, and all the
's asked for.

mber to:
ite clearly, using
al letters and black

in all details
in the issue date
th).

eiving your query,
be forwarded to the
vendor.

eader Query Service
are postage prepaid.
e do not put a stamp.

r Service Dept
est
anchsheel Enclave
Delhi 110017

THE PERSONAL COMPUTING MAGAZINE
PC QUEST
A CYBER MEDIA PUBLICATION

MAR 96
ISSUE (MONTH)

EDITORIAL (ARTICLES & REVIEWS)

1	5
2	6
3	7
4	8

PLEASE FILL IN RQS NUMBERS ONLY

ADVERTISEMENTS

1	5
2	6
3	7
4	8

Name: _____ Tel: _____
Designation: _____
Company: _____
Address: _____
_____
City & Pin: _____

I own a ❑ PC ❑ CD-ROM Drive ❑ Modem ❑ Notebook
How I got this issue: ❑ Subscriber ❑ Stands ❑ Borrowed

☐ More Details
☐ Demo
☐ Immediate purchase

ALL PRODUCT QUERIES **MUST** BE MADE ONLY THROUGH THIS CARD

READER QUERY SERVICE

THE PERSONAL COMPUTING MAGAZINE
PC QUEST
A CYBER MEDIA PUBLICATION

MAR 96
ISSUE (MONTH)

I need information on the following products:

EDITORIAL (ARTICLES & REVIEWS)

1	5
2	6
3	7
4	8

PLEASE FILL IN RQS NUMBERS ONLY

ADVERTISEMENTS

1	5
2	6
3	7
4	8

Name: _____ Tel: _____
Designation: _____
Company: _____
Address: _____
_____
City & Pin: _____

I own a ❑ PC ❑ CD-ROM Drive ❑ Modem ❑ Notebook
How I got this issue: ❑ Subscriber ❑ Stands ❑ Borrowed

☐ More Details
☐ Demo
☐ Immediate purchase

ALL PRODUCT QUERIES **MUST** BE MADE ONLY THROUGH THIS CARD

READER QUERY SERVICE

THE PERSONAL COMPUTING MAGAZINE
PC QUEST
A CYBER MEDIA PUBLICATION

1 YEAR: **Rs 240**
2 YEARS: **Rs 450**
3 YEARS: **Rs 630**
PER SUBSCRIPTION

PLEASE GIFT A PCQ SUBSCRIPTION ON MY BEHALF TO:
Name: _____
Designation: _____
Company: _____
Address: _____
_____
City & Pin: _____

Gift for
❑ 1 year
❑ 2 years
❑ 3 years

MY ADDRESS
Name: _____
Designation: _____
Company: _____
Address: _____
_____
City & Pin: _____
Enclosed cheque/draft # _____ for Rs _____
Outstation cheques: add Rs 10. [Foreign: US$ 60 airmail.]

PLEASE CROSS THIS BOX OUT IF NOT RELEVANT

I wish to subscribe for myself for
❑ 1 year
❑ 2 years
❑ 3 years

IMPORTANT: PLEASE SEND IN ENVELOPE WITH PAYMENT

GIFT SUBSCRIPTION

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

POSTAGE WILL BE PAID BY ADDRESSEE

BUSINESS REPLY CARD

NO POSTAGE STAMP NECESSARY IF POSTED IN INDIA

PERMIT NO. NDSE 112
MALVIYA NAGAR P.O.
NEW DELHI 110017

Cyber Media (India) Ltd
D-74 Panchsheel Enclave
New Delhi **110017**

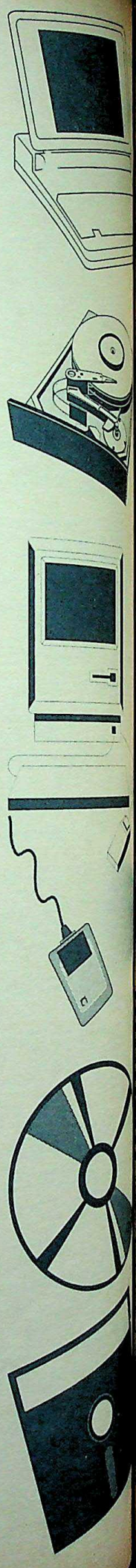
POSTAGE WILL BE PAID BY ADDRESSEE

BUSINESS REPLY CARD

NO POSTAGE STAMP NECESSARY IF POSTED IN INDIA

PERMIT NO. NDSE 112
MALVIYA NAGAR P.O.
NEW DELHI 110017

Cyber Media (India) Ltd
D-74 Panchsheel Enclave
New Delhi 110017



SUBSCRIPTION DEPARTMENT

Please attach cheque/draft and mail in an envelope to:

PC Quest
D-74 Panchsheel Enclave
New Delhi **110017**

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SOFTMART™

THE SUPER MARKET FOR SOFTWARE

"WE MAKE SOFTWARE AFFORDABLE"™

PARTIAL PRICE LIST FOR SOFTWARE PRODUCTS -MARCH 1996

All prices are in Indian Rupees.

CODE NO.	NAME OF SOFTWARE	LIST PRICE	SOFTMART PRICE QTY. IN SINGLE PACKS				
			1	2-4	5-9	10-49	>=50
MST001	MS OFFICE STD. WIN 4.2	16900	13900	13500	13200	13000	12600
MST002	MS OFFICE PROF. WIN 4.3	19900	17900	17500	17200	17000	16300
MST003	MS OFFICE 95 STD. W95 7.0	16900	13900	13500	13200	13000	12600
MST004	MS WINDOWS '95 COMPLETE W95	6700	5400	5300	5200	5100	4900
LDC001	LOTUS SMARTSUITE WIN 4.0 CD WITH FREE CD DRIVE	17000	13900	13500	13200	13000	12600
SKY001	WORDSTAR DOS 7.0	2990	2700	2600	2500	2400	2200
SYT001	NORTON UTILITIES DOS/WIN 8.0	6400	5400	5300	5200	5000	4700
NVL001	NOVELL NETWARE 5 USER 4.1 CD	35000	25900	25500	25000	24500	24000
NVL002	PERFECT OFFICE STD. WIN 3.OU	10950	8900	8700	8500	8200	7900
COR001	COREL DRAW WIN 5.0 CD	23950	21900	21400	21200	20900	19000
COR002	COREL DRAW W95 6.0 CD	23950	21900	21400	21200	20900	19000
CAE001	OMNIPAGE DIRECT WIN 2.0	12000	5500	5400	5300	5000	4500
TCS001	E.X. ACCOUNTING SOFTWARE DOS 3.0 + MS WINDOWS95 UPGRADE	9950 +4900	= 11900	11400	10900	10400	9950
STK001	SOFTEK AKSHAR DOS 3.0	7500	6000	5800	5600	5400	5000
SMT001	SOFTMART SD ANTI-VIRUS 10 USER (1 YEAR UPGRADES INCLUDED) DOS	1600	1400	1300	1200	1100	1000
SMT002	SOFTMART SD ANTI-VIRUS 100 USER (2 YEARS UPGRADES INCLUDED) DOS	4800	4200	3900	3600	3300	3000

STD. : Standard, PROF. : Professional, CD : Compact Disk • All Media is in 3.5" Floppies unless specified above.

Prices are based on a US$ exchange rate = IRS 35.00 and any fluctuations in the rate will effect prices accordingly (Prices valid as on 20th Feb. 1996). • Prices & Availability should be confirmed before placing order • All prices are subject to change without any notice or obligation. • All orders/deliveries are subject to availability of stock. • Software product and documentation warranty/guarantee are sole responsibility of software manufacturer/publishers/ distributors only. • Prices do not include any service charges. • All taxes and levies extra as applicable (sales tax presently exempt in Delhi for Software) • All disputes subject to Delhi Jurisdiction. • Efficient Surface Courier Delivery.

INDIA'S FIRST AND ONLY SOFTWARE MAIL ORDER COMPANY

" WHEN YOU THINK OF SOFTWARE, THINK OF US" ™

CHEQUES/DD IN ALL TOWNS/CITIES SOLICITED

SOFTMART™

THE SUPER MARKET FOR SOFTWARE

FREE COURIER DELIVERY

'Rameshwaram', D-1072, New Friends Colony, New Delhi-110065 India

Tel. : 91-11-6921240, 6837415, 6919242 Fax. : 91-11-6919242 Internet : mail.softmrt@axcess.net.in

CONTACT POINTS FOR ALL LICENCED SOFTWARES :

Agra-282004 • Ajmer-421811 • Aligarh-20868, 25685 • Allahabad-400500 • Alwar-23146, 21642 • Amritsar-542082 • Bhatinda-250651 • Bareilly-473033, 450140 • Chandigarh-160018, 692181 • Dehradun-652948 • Faridabad-217937 • Ghaizabad-712539, 716358 • Gorakhpur-335558 • Haridwar-426007, 426057 • Jaipur-514107, 511240 • Jalandhar-254774, 144008 • Jodhpur-30613 • Jammu-533154 • Kanpur-255894, 294828 • Kamal-255407 • Kota-20096, 423113 • Lucknow-283391, 273368 • Ludhiana-661784 • Meerut-522463, 512240 • Muzaffarnagar-403687 • Noida-537173, 536693 • Panipat-51877 • Palampur-30173 • Patiala-73050 • Rohtak-44716 • Shimla-213153 • Udaipur-413404 • Varanasi-313479 • Gurgaon-122001 • Saharampur-205529, 202343 • Bhubaneshwar-414321, 410084 • Calcutta-2201338, 2203526 • Guwahati-561411, 560352 • Patna-368315 • Rourkela-522762, 522395 • Shillong-793001 • Ahmadabad-415770 • Baroda-329374, 333841 • Bombay-6264816 • Vasco-Da-Gama-512256, 511763 • Gandhigham-22887 • Pune-448096 • Surat-683002 • Bangalore-5532417, 5531496 • Belgaum-32482 • Ernakulam-348202 • Hyderabad-3714855 • Madras-8250100 • Quilon-76957 • Trivandrum-61913 • Salem-446619 • Bhopal-557129 • Gwalior-326423, 326509 • Indore-468692, 461523 • Nagpur-47131

Buyer's Name: _____ SOFTWARE ORDER FORM

Address: _____ Address: _____

City/Town _____ Pin _____

Code	Product	Qty.	Rate	Amount
Total				

Mode: 100% payment by Draft No. _____ Bank _____ Dated _____

in favour of **SOFTMART** payable at **DELHI** for Rs. _____.

Draft should only be made in favour of "SOFTMART" payable at New Delhi.

Please also mention order details on the back side of Draft .

Mail your orders : SOFTMART, Rameshwaram, D-1072, New Friends Colony, New Delhi-110065.

POINTLINE/SM/96/3

TRADEMARKS AND BRAND NAMES ACKNOWLEDGED AND ARE THE PROPERTIES OF THEIR RESPECTIVE COMPANIES/OWNERS•NOT RESPONSIBLE FOR ANY TYPOGRAPHICAL ERRORS.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SCS's Alliance With Eagle Point

SCS has announced its alliance with Eagle Point to distribute Eagle Point's CAD-based products in India.

These products mainly cater to the needs of civil engineers, hydrologists, architects and presenters.

Fujitsu-ICIM, IIS Tie-up

Fujitsu-ICIM has announced its tie-up with IIS Infotech to provide education and training to its customers. This tie-up is being made possible through IIS's professional faculty.

Lexmark's Printers Marketed By Indmark

Indmark Infocom, a subsidiary of TVS Lakshmi Credit, has tied up with Lexmark International to market and service Lexmark's inkjet and laser printers in India. Indmark will provide focussed marketing, distribution and customer service to its international partner.

Multimedia Training Center

Satyam Graphics' multimedia training center in Jaipur will provide training in multimedia and presentations, 2D and 3D animations, image processing, desktop publishing and CAD applications.

Oracle New Media In India

Oracle Software has announced the availability of Oracle New Media products and services in India. These consist of Oracle Media Server, Oracle Media Net and Oracle Media Objects that integrate multi-media information with the existing information systems.

The Doon Superhighway '96

ISNET is launching Doon Valley Virtual World-The Doon Superhighway '96. Members and guests can dial in using a computer, modem and software to connect to the ISNET headquarters. Doon Superhighway '96 displays a Doon Valley Virtual World page which allows all the better-known Dehradun organizations to connect to the outside world.

Business Administration Programs In India

The Open University of British Columbia, Canada and Aptech will collaborate to offer a Bachelor of Business Administration degree in India. The program will begin by mid-96.

Lotus Notes Rel 4

Lotus has announced Lotus Notes Rel 4, a messaging and groupware product. The new version offers a choice of three clients, Notes Mail, Notes Desktop and Notes. This product is available in single and multi-user versions and includes InterNotes Web Publisher 2.0. It supports 16 platforms and 20 languages.

Chipsoft And Lotus Shake Hands

Chipsoft and Lotus Corporation have entered into an agreement to market Lotus Notes. It will offer service on a turnkey basis to companies who are keen to have a look at their business processes.

PowerBuilder 5.0 From Crescent

Crescent Software and Powersoft have planned to introduce Powerbuilder 5.0 in India. The features include practical application partitioning, PowerScript editor and productivity galleries.

Novalink's GoAnyWhere Modem

Novalink Technologies have announced GoAnyWhere, a PC card that accommodates three types of data communications while occupying a Type II slot in a portable computer. This card can act as a wireless fax/modem, a cellular modem and a radio modem. GoAnyWhere operates in two modes: self-powered for palmtops and PDAs and powersharing mode for use with computers. It is also bundled with [illegible] less' ZAP-iT, which [illegible] wireless access to [illegible] messaging over the [illegible] work.

DSE Goes On[illegible]

Delhi Stock Ex[illegible] DOTS screen [illegible] trading syst[illegible] gone online. DSE has [illegible] Tandem's Homalaya [illegible] computer system, [illegible] capable of handling [illegible] trades per day with [illegible] daily load capacity of [illegible] DOTS also provides [illegible] through a fibre optic [illegible] at the DSE premises [illegible] WAN capability for DS[illegible] bers with options such [illegible] up lines and leased [illegible]

UB Networks, Xerox PARC To Develop Advan[illegible] ATM Switching Technology

UB Networks [illegible] Xerox Palo Al[illegible] search Center [illegible] have agreed to develo[illegible] ucts based on advan[illegible] switching technolog[illegible]

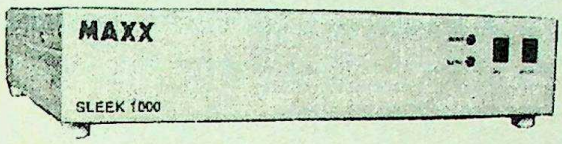
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

UPS MAXX

UPS PRICE DOWN

Nobody can beat us either in price or in quality. Prompt after sales service. One Year Guarantee



RS. 8500/- FOR 625 VA UPS WITH 2 NOS. 7AH SMF BATTERIES
Also Available On-Line UPS from 0.5KVA to 10KVA

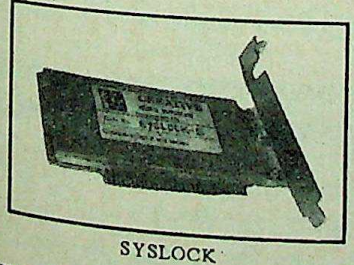
* Bangalore: 14/1, 2nd Floor, H. Siddiah Road Cross, Ph: 2220953 / 2243229
* New Delhi : A.118, Lajpatnagar - I, Ph: 6832091 / 6829478 Fax: 6832091

OTHER PRODUCTS : SERVO STABILIZER, CVT, SILENT GENERATOR

ou have a choice of ARDWARE LOCKS FOR COPY PROTECTION.....

reative Data Services offers a range of Tough ARDWARE LOCKS for protecting your software om pirates. Protection schemes based on these ocks are available for programs written in any anguage.

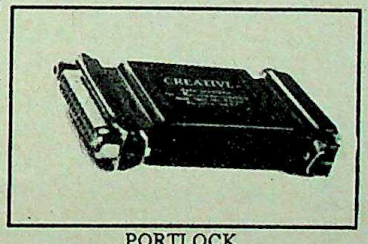
he art of making Hardware Locks and Computer ecurity systems has been the business at Creative ata Services since past eight years and more than 000 locks of SYSLOCK series are guarding reative software systems from pirates and unauthorised users.



SYSLOCK

choice of TWO odels of ware Locks d SYSLOCK d PORTLOCK vailable for tecting any of r packages m piracy.

LOCK : The SYSLOCK is an addon board which is to be plugged into the PC mother board. A fully encapsulated electronic module operating on the high speed signals on the bus, the SYSLOCK offers a very high level of security.



PORTLOCK

PORTLOCK : The PORTLOCK gets plugged into the parallel port of PC and provides a bypass connection to printer. So the parallel port on which PORTLOCK operates can still be used for connecting a printer. The complex manner in which the PORTLOCK gets into operation and the complex sequence of responses it gives out make it an ideal security device.

SCHEME OF USING LOCKS : Each unit of lock (SYSLOCK or PORTLOCK) is uniquely encrypted and supplied with software to couple a copy of your programe with the lock. Once a copy of software is coupled with a lock, the software will work ONLY when the lock is present in the system, so no one can pirate your software.

Also available

SYSLOCK-T for system protection
SYSLOCK-B for Banking Systems
SYSSWITCH Automatic ON/OFF control for PC

Creative Data Services
...a Narayan Reddy Building, BEML Road, HAL III Stage,
...ore-560 075. Phone/ Fax : 080 - 5280292

PROTECT YOUR SOFTWARE FROM PIRACY

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Replace Tally & EX With VISIPAK

Hats off to you ! You have been using softwares like Tally & EX courageously WITHOUT many of the following important features.

1. Coded / Codeless Facility Simultaneously.
2. User Definable Balance Sheet
3. Export Documentaion
4. Payroll facility
5. Production Planning & Bill of material
6. Word processor / Mailing List
7. On-Line TDS deduction System.
8. Finished Goods / Raw material Inventory
9. Unlimited Nodes for LAN version.
10. No nuisance of a Key Diskette.
11. Excise Invoicing / C&F Agency management
12. Extending & Customising it yourself.
13. Point-of-Sales Vr for Shops / Stores.
14. Super Speed data Entry in DOS / LAN.

THIS IS WORLD CLASS STUFF

ON-LINE FINANCIAL ACCOUNTING
EXPORT DOCUMENTATION & INVOICING
BUDGETING, RECEIVABLES, PAYABLES
PRODUCTION PLANNING & INVENTORY
BILL-OF-MATERIALS FOR PRODUCTION
SALES ORDER , SALES TAX & EXCISE
WORD PROCESSING / MAILING / LABELS
FULL ON-LINE TDS WITH FORM 16A
C&F AGENCY - SALES / STOCKS CONTROL
FULL PAYROLL SYSTEM INCLUDING BONU

UNIQUE CODED/CODELESS SYSTEM WITH BOTH OPTIONS AVAILABLE SIMULTANEOUS

Don't believe it ! Well - SONY INDIA, SAMSUNG INDIA, MESCO , VIDEOCON, MONTA INDUSTRIES , MARIE STOPES , NUCHEM LTD, COLLAGE GROUP, ESSAR CELLULAR, THAPA AGRO, SUNSTAR LUBRICANT, SGS THOMPSON, KUBER FINANCE Etc decided on VISIPAK

DEALERS WANTED

RADIX

RADIX SOFTWARES PVT. LTD
M-4, AASHIRWAD BUILDING,
D- 1, GREEN PARK, NEW DELHI-110016
PHONES: 663274; 68[illegible]-8071 FAX: 91-11-6852299

AHMEDABAD: ARK-462996
BARODA: COMPS - 329374
COCHIN : MENON-366[illegible]
MEERUT- BITS & BYTES : 540874
PUNE : INFO-ELECTRONICS - 623794,633184

Tally & EX softwares belong to Peutronics Ltd & TCS Ltd. respectively.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ed by PARC. UB and
ax have assembled a
team of engineers and
tists to work on this
nology.

ple's "Hit The llboard" Contest

A week after the cricket World Cup began, Apple mputers has announced all-India "Hit-the-board" contest. To ticipate, you need to ch the nine matches held India; the names of the yers who hit the billboard ll the matches; and the mber of hits. Incidentally, y fours, sixes, and throws count. The test is valid from ruary 17 to March 14. e last date for entries is rch 23. For every hit, le will donate Rs 5,000 charity. The first prize is p for two to Disneyland, A. The second prize a Mac rma 5200.

ward Novell's veloperNet For ftware velopers

Novell's DeveloperNet is a new developer relaprogram that will serve primary communicachannel to deliver corporate technolto developers. perNet is designed to crease greater respon-, flexibility and open nications to software pers. This will enable pers to offer input into developer relations n. Subscribers to the perNet program re- a DeveloperNet Welcome Kit, a Software Development Kit, a CD-ROM with quarterly updates and Novell Developer Notes, a Developer Handbook, the Novell Market Messenger CD-ROM, information on the "YES" comarketing branding program and information on the perfect fit partners.

SGS-Thomson's on-line Web site

SGS-Thomson's ST Online makes its catalogues, data sheets and apps notes available via the WWW. Engineers can view, download or print the documents available. The Web site at http://www.st.com contains over 2,800 documents, each of which is available in PDF, Printerleaf and PostScript formats. Users can access products by family, application, part number or key word.

Dialogic's Half-Size Four-Line Voice Board For Win95

Dialogic's Dialog/4 is a four-line voice board in a half- size format, which runs on Win95, WinNT, UNIX, OS/2 and DOS.

Dialog/4 provides four telephone line interface circuits approved for direct connection to analog loop-start lines and is widely scalable within the family of two- and four-line products. A digital signal processor and general-purpose processor constitute an unusual dualprocessor system that enables touchtone and audio and video processing.

Dialog/4 can be used by developers to create voice mail and messaging apps, interactive voice response programs and telemarketing solutions.

Integra TechSoft's R&D Centers

Integra TechSoft, which specializes in the development of software components on Microsoft platforms, plans to set up two R&D extension centers at Bangalore and Tucson, AR. The Bangalore center, set up in partnership with Global Automation, will work on Win95 from the systems management tools aspect and will develop components for the SOHO market. The Tucson center, set up in association with Integra Technology International, will develop products to work with MS Exchange.

Seminars And Exhibitions

MARCH

BOT/BOOT Investment in Asia, Hong Kong
4-7 March 1996
Contact: IIR, 20/F Siu On Centre, 188 Lockhart Road, Wanchai, Hong Kong. Tel: +852-2507566 Fax: +852-25861777

PCN & Mobile Malaysia '96, Kuala Lampur
5-6 March 1996
Contact: IIR SDN BHD, Suite 214B Kompleks, Antarabangsa Jalan Sultan, Ismail, 50250 Kuala Lampur Malaysia. Tel: +603-2445935 Fax: +603-241035

Tick-IT Lead Auditor Training, Bangalore
11-15 March 1996; 18-22 March 1996
Contact: Quality Assurance Institute, 7 Community Center, East of Kailash, New Delhi 110065. Tel: 11-6432335, 6219792 Fax: 11-6440866

India Telecommunications '96, New Delhi
1-3 April 1996
Contact: IIR, 20/F Siu On Centre, 188 Lockhart Road, Wanchai, Hong Kong. Tel: +852-25861777 Fax: +852-25075666

EDUCOMP '96, Chandigarh
19-21 March 1996
Contact: Technical Teachers' Training Institute, Sector-26, Chandigarh 160019. Tel: 172-770466, 771351 Fax: 172-549366

APRIL

VR Expo'96, New Delhi
18-20 April 1996
Contact: CyberExpo, 506 Meghdoot, 94, Nehru Place, New Delhi 110019. Tel: 11-6416315, 6411692 Fax: 11-6476664

National Convention Of Computer Educators & Trainers, Patna
20-21 April 1996
Contact: National Association Of Computer Educators & Trainers, C/O Indian Institute of Ecology & Environment, Paryavaran Complex, Maidan Garhi Road, New Delhi 110030. Tel: 11-6865084

CC-0. Mumukshu Bhawan Varanasi Collection. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MAGNETO OPTICAL (MO) & CD-RECORDABLE (CD-R

Verbatim	74 MIN CD-Recordable	550 *
Verbatim	128 MB Magneto Optical Media (3½")	Call **
Verbatim	230 MB Magneto Optical Media (3½")	2000 **
Verbatim	600 MB Magneto Optical Media (5¼")	4300 **
Verbatim	650 MB Magneto Optical Media (5¼")	4700 **
Verbatim	1.2 GB Magneto Optical Media (5¼")	5100 **
Verbatim	1.3 GB Magneto Optical Media (5¼")	5400 **
Maxoptix	2.3 GB Magneto Optical Media (5¼")	7000 ** New
Maxoptix	2.6 GB Magneto Optical Media (5¼")	7500 ** New

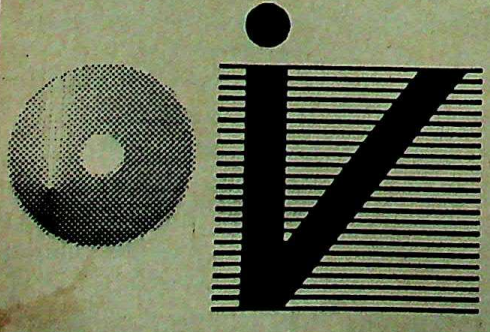
CARTRIDGE TAPES

Verbatim	8mm 112m — Call*	Verbatim	DC 6150 — 690
Verbatim	4mm 90m — 570*	Verbatim	DC 6525 — 1190
Verbatim	4mm 60m — 560*	Verbatim	DC 2120 — Call

MAGNETO OPTICAL DRIVES

FUJITSU	230 MB 3½ MO Drive	46,000
Maxoptix	1.3 GB 5¼ MO Drive Effective Access Time 12 ms	99,500
Maxoptix	2.6 GB 5¼ MO Drive Read & Write Compatible with 1.3/1.2 GB & 650/600 MB Media	1,74,100

Introductory Offer



Vision Infotech

Plot 4, Road 53-B, Punjabi Bagh (West)
New Delhi-110026 Fax: 91-11-5435727
Tel: 91-11-5454757, 5194331

NOTE ● SPECIAL OFFER IS VALID TILL STOCKS LAST ● PRICES ARE EXCLUSIVE OF SALES TAX, OCTROI, FREIGHT & INSURA
* MINIMUM ORDER QTY. 10 ** MINIMUM ORDER QTY. 5

CA&M Ph:-01

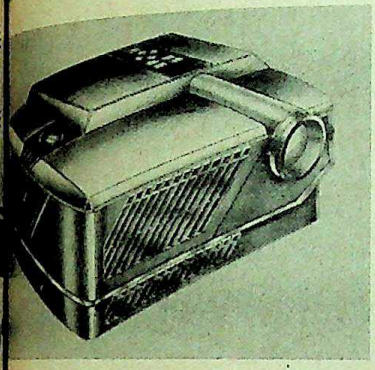
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE

...timedia LCD ...jector

...ntwel Technologies have introduced Powerbeam II: a 12 kg ...ector for computer/video ...entations. This product ...mpatible with NTSC, and SECAM video



...dards, as well as with Macs, PowerBooks and ...ables. Its other features ...de a lamp timer with ...nal lock protection, slide ...software and auto set

...EL TECHNOLOGIES, ...UBAI ...452-603893, 603570 ...452-601021, 631056

...der Query Service #E0316

...tium Models ...m HP

...ewlett-Packard has added two new Vectra models based on the ...MHz and 166MHz ...ssors. These will be sold ...oth as desktops and ...owers. Both desktop ...s come with 1.2 GB ...and 8..16MB RAM. The ...ower has 1.2..1.6 GB ...and 8..16MB RAM.

...KARD, NEW

TEL: 11-6472311, 6472328
FAX: 11-6461117

Reader Query Service #E0317

Notebook From Cruiser

Cruiser has introduced 486DX and Pentium multimedia notebooks with a removable TFT active-matrix color LCD display. It features a removable HDD, with trackball, SCSI-II or fax/modem port, PC Card slots. It weighs 3 kg and costs about Rs 400,000.

FORTUNE OFFICE SYSTEMS, SECUNDERABAD
TEL: 40-844551, 819009
FAX: 40-819040

Reader Query Service #E0319

Omni288 From ZyXEL

ZyXEL has introduced Omni288, a V.34 modem for data, fax and voice, that offers a either a serial or a parallel port connection. Other features include auto call detection, call-back security with password and data/fax transmissions over cellular networks. Microphone or speaker jacks with flash EPROM and diagnostics for self-test, analog loopback and loopback are also available.

XON COMMUNICATIONS, MADRAS 600008
TEL: 44-8260124, 8258336

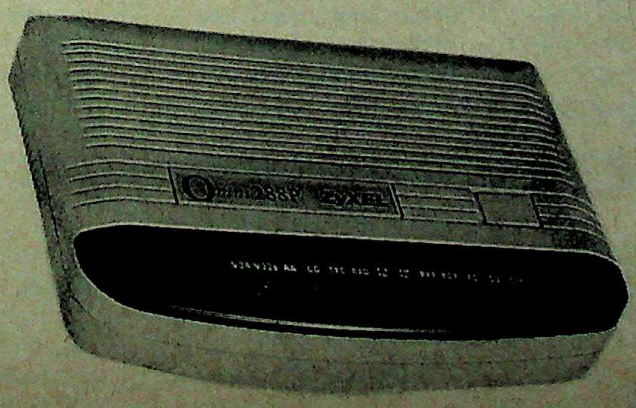
Reader Query Service #E0318

Mastermind Home PCs

Madras-based Accel computers has launched its Mastermind series of home computers. Three models: Junior, Excel and Pro, are Pentium-based. And sell with educational software, a multimedia encyclopaedia, a fax/modem with voice mail, games and home accounts apps. The sound card used allows the playback of audio CDs as well as multimedia app. The bundled internal modem has a speed of 14,400 bps with MNP and can receive Group III faxes. an Internet browser comes preloaded along with access to the AccelAssist BBS. Junior is priced at Rs 79,900, Excel at Rs 89,000 and Pro at Rs 99,000.

ACCEL COMPUTERS, MADRAS
TEL: 44-8260254, 8276285
FAX: 44-8272461

Reader Query Service #E0320



3COM Adds Fast Ethernet To LANplex

3COM introduced fast Ethernet modules for its LANplex family. These are full duplex and are designed for LANplex switches.The Fast Ethernet module (UTP) with 100BASE-TX(RJ-45), is priced at $1,495 and will be available by March 1996. Fast Ethernet (Fiber) with 100BASE-FX port, at $1,795, will be available in the second quarter of 1996.

The Tri-Media Fast Ethernet module (UTP) with a 100 BASE-TX (RJ-45) port, sixteen 10BASE-T (RJ-45) ports and one FDDI backplane connection, costs $19,000 and will be available in March 1996. The Tri-Media Fast Ethernet module (Fiber) is similar to the UTP module but features a 100BASE-FX (SC connector) port, It is priced at $20,000 and will be available in April 1996.

3COM ASIA, NEW DELHI
TEL: 11-6835070
FAX: 11-6834662

Reader Query Service #E0321

Samtel Color Monitors

Samtel India Ltd has introduced a 14", 48kHz color monitor for PCs. Its features include 0.28 dot pitch, antiglare treatment and in-built autopower down. It does not suffer from interlace flicker in 1024x786 mode and is priced at Rs 12,000.

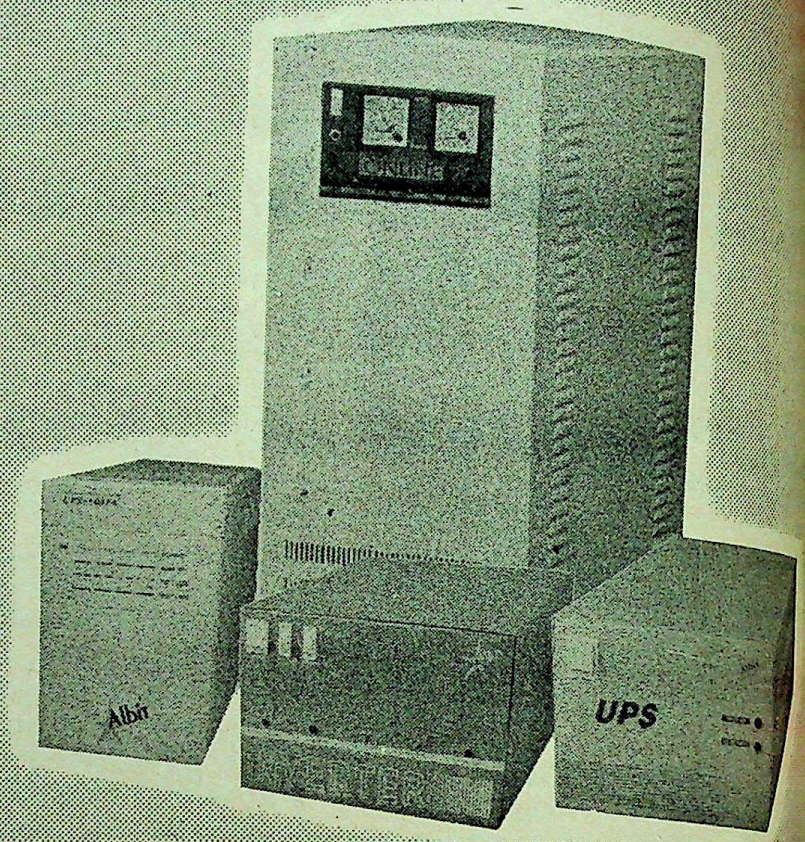
SAMTEL INDIA LIMITED, NEW DELHI
TEL: 11-6842791, 6832886
FAX: 11-6837534
TELEX: 31-62774

Reader Query Service #E0322

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MASTER PIECES
INSPIRED BY POWER PROBLEMS



CREATED BY

Albit

Albit Electronics (P) Ltd.

CVT : 50 VA TO 5 KVA ✱ **INVERTER : 250 VA TO 5 KVA** ✱ **FAX UPS**
OFFLINE UPS : 250 VA TO 1250 VA ✱ **ONLINE UPS : 500 VA TO 10 KVA**

Albit Electronics Pvt. Ltd. is a well established professionally managed company engaged in manufacturing of UPS, CVTs & Inverters. The Company was established in 1992. Our motto has been to give our esteemed customers the maximum value for their money. During short period of 3 years, the name Albit has become synonymous with complete customer satisfaction.

The Albit On-Line UPS combines high tech design, innovative features, proven reliability & elegance to offer a UPS which provides the most economical solution to protect your equipments from all kinds of power problems.

The Albit Off-Line UPS has built in line conditioner, AVR to provide pure reliable uninterruptible power for complete security from power blackouts, surges, sags or other dangerous electrical disruptions.

Albit has designed & developed CVTs using ferro-resonant transformer to provide instantaneous voltage correction. Albit CVT ensures power supply, free from transients, surges, spikes & other electrical noises, customary for microprocessor based equipments.

Albit Inverter is exclusively designed to meet your domestic power requirements during electricity failure. It is fully IC controlled, portable, pollution free, noise free & has auto start-stop function.

The Albit Fax UPS is specifically designed for Fax machines. The UPS provides power to the Fax machine only while the Fax machine or the Telephone is in operation & shuts it off when it is idle. Thus the UPS can give last of power backup to the Fax machine.

B-20, BASEMENT, SHAKTI NAGAR EXTN., DELHI-110052.
PH.: 7218038, 7428038, 7428039 FAX : 7419039

DEALERS ENQUIRY SOLICITED · Contact Albit

: Authorised Dealers :

Delhi : BLUE DOT ELECTRONICS. Ph.: 2968727, 2963613 . INTERNATIONAL IMPEX. Ph.: 2512806, 6415597, 2931214
MICRO MAX. Ph.: 5787014, 5787356, 6434023 . QUANTUM HITECH MERCHANDISING. Ph.: 5787051, 5759699
Bhubaneswar : SAKTI ELECTRONICS & ELECTRICAL COMPANY. Ph.: 403794, 408159 . *Jammu* : QUANTUM TECHNOLOGIES. Ph.: 533164
Bhopal (M.P.) : SKOPE SYSTEMS. Ph.: 555846, 591199 Fax : 572377 . *Patna* : ADROIT COMPUTERS . Ph.: 664344
Guwahati : SURESH SYSTEMS PVT. LTD. Ph.: (0361) 547524, 543332

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SOFTWARE

Wings Lite 2 Released

Wings Business Systems' Wings *Lite* 2, an enhanced version of their popular shareware accounting app has more reports for debtors, creditors, and inventory; allows online printing of invoices and vouchers; and a 90-character file for remarks. The User's Guide is built-in. *Lite* 2 lists at Rs 100.

WINGS BUSINESS SYSTEMS, HYDERABAD
TEL: 40-236484, 237263
FAX: 40-237318

Reader Query Service #E0304

CSAT's Software Solution For Lawyers

As part of their Computer Aided Business Solutions (CABS) series for lawyers, CSAT has prepared three apps:

CABS-LAW is a personal case and citation information system. It allows retrieval of information on Acts, laws and sections, cases, and books. And costs Rs 850.

CABS-ExSy is an executive secretary system. It organizes addresses, creates an STD/ISD directory, and label printing and letter writing. And costs Rs 750.

CABS-PAS is a personal accounting system. It also allows creating personal accounts. And permits share, debenture and LIC policy management. It creates reports for statement of affairs, as well as final reports. It costs Rs 850.

CSAT SYSTEMS, NEW DELHI
TEL: 11-6425604

Reader Query Service #E0305

Malpani's OA-Business Software

OA Business Management Software for Win 3.1x is also available as a LAN version. The available modules include finance, word processing, inventory management, payroll, and a personal information-cum-time management module. Users can opt for the modules required. These list from Rs 7,500-39,000

MALPANI SOFT, HYDERABAD
TEL: 40-610547
FAX: 40-601704

Reader Query Service #E0306

Corel's Product Range

Corel announced several products including CD Creator 2 for Win95, CD Creator for Mac, Corel PhotoPaint 6, Corel PrintHouse, Plug-in Viewer and Internet Mania.

Corel CD Creator 2 is a CD-ROM authoring and creation package for Win95 and WinNT. CD Creator for Mac allows production of ISO 9660, Hybrid, Audio, Mixed Mode or CD Plus compact discs under the Mac environment.

Corel PHOTO-PAINT 6 is an image creation and photo-editing app for Win95 and WinNT. And offers the same functionality as the PHOTO-PAINT 6 module of CorelDRAW 6.

Corel Print House is a graphics tool used to create cards, banners, invitations, calendars and certificates.

Corel has also developed a Plug-in Viewer for Netscape's Web browser—Navigator 2.0—that allows viewing .cmx files on the Web.

Internet Mania is the first productivity title in Corel's Home CD series. Running under Win95, it features a Net interface, Web browser, catalog, FTP, home page authoring tool and a personal stock ticker.

COREL BUILDING, CANADA
TEL: 01-6137288200
FAX: 01-6137619176

Reader Query Service #E0313

CADVantage Updated

Teckmen Systems have launched CADVantage 6.1 for textile designing. It uses high resolution (1280x1024x256 colors) to bring workstation performance to PC platforms. CADVantage uses virtual memory, dual high resolution color monitors, and supports more than 1,000 printers. It also supports scanning images or cloth samples in color or B&W. And can port Dobby and Jacquard designs to print and vice versa.

TECKMEN SYSTEMS, PUNE
TEL: 212-790764
FAX: 212-792663

Reader Query Service # #E0307

Software to Detect Breast Cancer

Can-Scan, for breast health education and self examination, has been developed by Mishanti Engineers. This expert system receives user response through a menu-driven interface. It uses a simple Q&A format to capture a patient's medical history.

MISHANTI ENGINEERS, CALCUTTA
TEL: 33-2422199
FAX: 33-344010

Reader Query Service # #E0309

Medical Software From Infonet

Infonet Management Systems designed **Clinic Management System** for small and medium sized clinics. It handles patient registration, history, clinic-test results, and accounts. The menu-driven package also helps analyze patient history while tracking account-related activities. Developed on Clipper, it needs a 386 or higher, 2 MB RAM and 8 MB HDD.

INFONET MANAGEMENT SERVICES GROUP, MADRAS
TEL: 44-4340175, 4340588
FAX: 44-8250432

Reader Query Service # #E0310

Information Express From Deltra

Deltra Software has developed Information Express. This converts the computer data to voice for access using the telephone. Targeted at CEOs and decision makers who need to track information from various locations it also has a built-in vocabulary and data interface which can be modified to extract information from existing databases.

DELTRA SOFTWARE, BELGAUM
TEL: 831-427724

Reader Query Service #E0311

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Choose the future...

Video-conferencing, MPEG, TV tuner

Pentium 133 MHz - CD-Rom Notebook

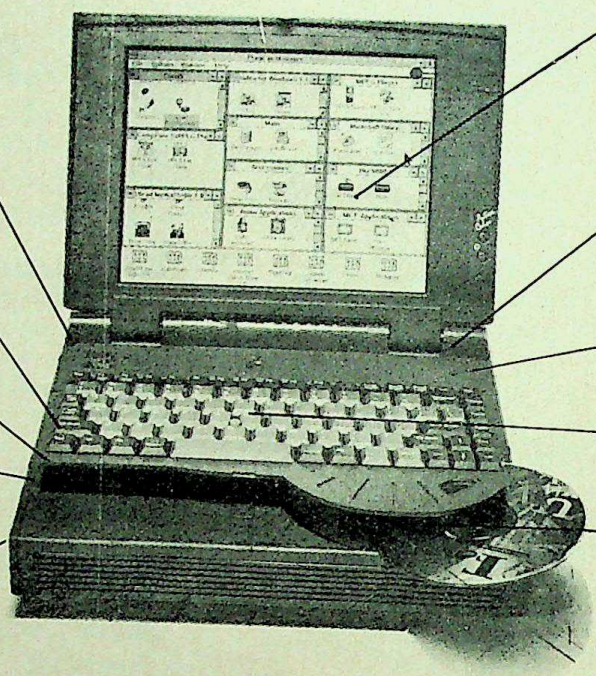
PCMCIA CARDS
supports
Type II x 2/
Type III x 1

MPEG
Full Motion Picture
Playback

Video Capture
Connect camcorder for use in
video conferencing.

CPU
Pentium P54C 3.3V or P55C 2.5V
upto 150 Mhz.
(Also available 486 DX4 models)

RAM
upto 64 MB of main memory



Large Display :
10.4 Active TFT or
10.4" Dual Scan STN

HDD
Removable
upto 1.3 GB

RGB to TV
for presentation

Micro Joystick

CD-ROM Drive
CD-ROM Drive in bu
16 bit stereo sound
built in speakers/mic

YOUR GATEWAY TO REAL MULTI-MEDIA COMPUTING ERA IS HERE !!

InnovACE™

The Innovative Notebook Specialist ™

Ask for an amazing price offer

Brand "InnovACE" USA-Holland: leading in

- 1992 World's First 386sx 25MHz Notebook
  First Notebook Built-in SCSI port
  World's First 386DX 40 MHz Notebook
- 1993 First Notebook Built-in Cyrix S/33 & DSTN LCD
- 1994 May World's First Notebook Built-in 12mm "CD-ROM", leading over 6 months

(also available 486 Dx4 models)

SAMTECH COMPUTERS PVT. LTD.

10A/27, EAST PATEL NAGAR, NEW DELHI-110008 INDIA
FAX : 5734293, 5751683 TELEX : 031-77336 AKIL-IN
TEL.: 5734293, 5734226

Authorised Resellers:

BOMBAY: Thukral Trading Ltd. Ph.: 2053765, 2032283, Fax: 2083112 Synergy Information Technologies Ph.: 8360527, 8325415, Futech Systems Ph.: 4453438, 4453332, Fax: 440072 **BHUVNESHWAR:** Oricomp Systems (P) Ltd. Ph.: 406180, 400343 Fax : 405875 **PUNE :** Pushpam Ph.: 415162, 411279, 417885 Fax : 416455 **MADRAS :** Integral Computers Ph.: 8552846 **DELHI :** The Computer People Ph. : 4617229, 4690854 Fax : 011-4629275

DEALERS & O.E.M. ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AREMIS-PMS Hotel Software

LK Global Hospitality Systems have announced AREMIS-PMS for medium to large hotels. It is modular, flexible software. It assists in automating functions, such as front desk, telephone management and club membership. On-line help is available. AREMIS-PMS*PRO is targeted at five star and luxury establishments and AREMIS-PMS* LITE is for smaller ones.

LK GLOBAL HOSPITALITY SYSTEMS, NOIDA
TEL:11-8539849
FAX:11-8555376

Reader Query Service #E0312

Products From Adobe

Adobe's PrintGear is designed for SOHO users. And enables the printing of 16 pages per sheet using N-up. An accessories CD-ROM, which contains 78 fonts with tips on creating documents, is bundled.

Adobe Acrobat 2.1, used in electronic publishing, has come up with new features such as electronic, multimedia and Web authoring tools. These include Weblink: a plug-in app for Web publishing; and Movie Tool that allows multimedia to be added to .PDF files.

Adobe has also introduced is AfterEffects 3.0 for Mac and PowerMac, which provides Bezeier masking, batch rendering, motion control and time remapping.

WIPRO INFOTECH,
BANGALORE
TEL: 80-2233534, 2270918
FAX: 80-2218590

Reader Query Service #E0314

ADDRESSES

COM Asia
405, Surya Best Western Hotel,
New Friends Colony,
New Delhi 110065
TEL:11-6835070
FAX:11-6834662

Accel Computers
178, SFI Complex,
Kalluvarkottam High Road,
Madras 600034
Tel: 44-8260254, 8276285
Fax: 44-8272461

Corel Building,
1600 Carling Avenue,
Ottawa, Ontario,
Canada
TEL:01-6137288200
FAX:01-6137619176

CSAT Systems
C-67-A, Kalkaji,
New Delhi 110019
Tel: 11-6425604

Deltra Software
3rd Floor, Dalvi Building,
Kirloskar Road,
Belgaum 590002
Tel: 831-427724

Fortune Office Systems
97, S.P. Road,
Lane Oppsite Swapnalok
Complex,
Secunderabad 500003
Tel: 40-844551, 819009
Fax: 40-819040

Hewlett-Packard
24, Paharpur Business Center,
Nehru Place,
New Delhi 110019
Tel: 11-6472311, 6472328
Fax: 11-6461117

Infonet Management Services
Group,
1/12 & 1/13 Pinjala Subramanyan
Street, T Nagar,
Madras 600017
TEL: 44-4340175, 4340588
FAX: 44-8250432

Intwel Technologies,
6, Sathyasayee Nagar,
Madurai 625003
Tel: 452-603893, 603570
Fax: 452-601021, 631056

LK Global Hospitality Systems
Software Technology Park
Complex
Block I, II Floor, Sector 29
NOIDA
Tel: 8539849
Fax: 8555376

Mishanti Engineers
Shantiniketan, Fifth Floor
Room No 11,
8, Camac Street,
Calcutta 700017
Tel: 22-2422199
Fax: 11-344010

Malpani Soft
406-408, Vaibhav Kunj,
1-2-605, Lower Tankbund,
Hyderabad 500080
Tel: 40-610547
Fax: 40-601704

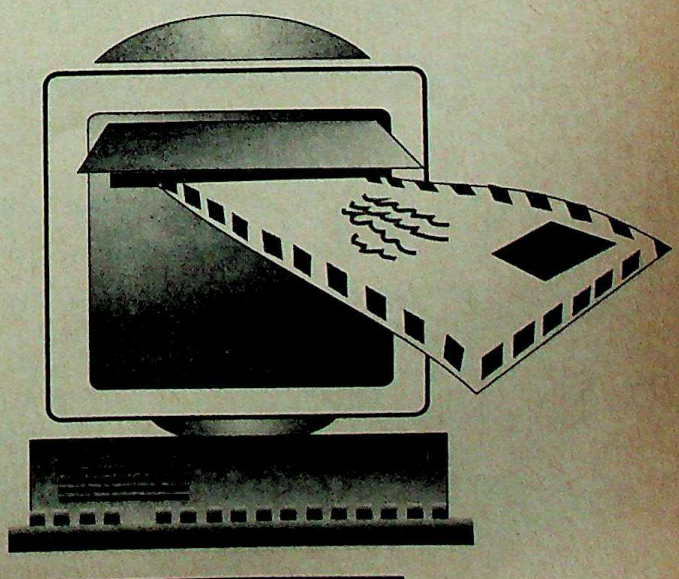
Samtel India Limited,
50-51 Community Center,
New Friends Colony,
New Delhi 110065
TEL: 11-6842791, 6832886
FAX: 11-6837534
TELEX: 31-62774

Teckmen Systems
J-18, S Block, MIDC, Bhosari
Pune 411026
TEL: 212-790764
FAX: 212-792663

Wings Business Systems
1002 Paigah Plaza,
Basheerbagh,
Hyderabad 500029
Tel: 40-236484, 237263
Fax: 40-237318

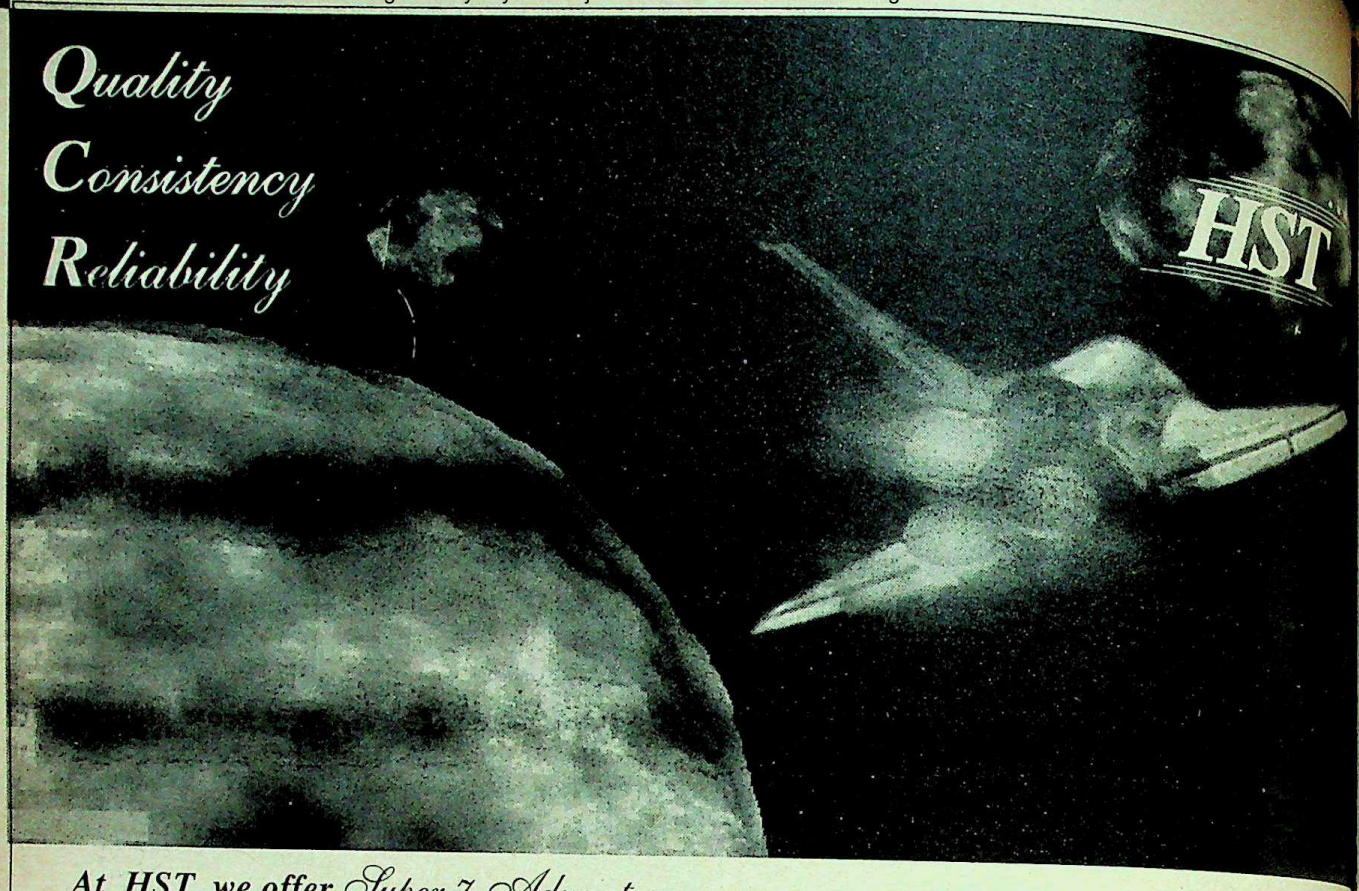
Wipro Infotech
Software Products Division,
III Floor, Basappa Complex,
40/1A, Lavelle Road,
Bangalore 560001
Tel: 80-2233534, 2270918
Fax: 80-2218590

XON Communications
19, Casa Major Road
Egmore, Madras 600008
Tel:44-8260124, 8258336



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



At HST we offer Super 7 Advantage

SUPER 7 ADVANTAGE is the advantage of 7 (seven) I/O interfaces with 7 SCSI Devices + 2 IDE Devices supported ssimultaneously in addition to 2 Ser. + 1 Parallel + 1 Game on one and only card i.e.
VL - SCSI 2 Ctlr. Card.

Yes
HST gives full
120 days Warranty
after all (O.C.R)

Quality
Consistency
Reliability
are the base parameters we operate on.

Our other Products :
Ethernet 16 Bit
PCI Ethernet Cards
4 Port Serial Cards
VL-VGA & IDE CARDS
386 / 486 Mother Boards

Mfrs : COMPUTER PARTS & ACCESSORIES

HS' TECHNOLOGIES

Tel # 874 90 79 / 874 42 86
Fax # 91 - 22 - 872 3983

B - 308, Virwani Indl. Estate, W. E. Highway, Goregaon (E) , Bombay - 400 063.

Also available at :

BOMBAY : COMPEX 205 3895 , CORPORATE 556 1316 , ORTEK 206 1244 ,
PUNE : SOFTBYTE 631 058 , **AHMEDABAD :** SCOPE 642 0583 , **CALCUTTA :** SUPERTRON 242 3874

Dealership solicited for unrepresented areas

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

(For office use)

PC QUEST PRODUCTS ANNUAL: JUNE 1996

The Definitive Guide To Personal Computing Products

The PC Quest Products Annual is a comprehensive directory of personal computing products that is preserved, and referred to, through the year. It's simple and free. So make sure your product doesn't get left out.

*Complete this form, **complete with specs and prices**, attach the product brochure, and mail it to our regional office by **31st March 1996**.*

Please use a separate form (or photocopies) for individual products.

Send entries for products that will be available thru December 1996, in their present form or as updates

1. Product Name/Model/Version: _____

2. Type: ❒ Hardware/Peripheral/Card ❒ Software ❒ Other:_____ (Please specify)

3. This product is: ❒ Imported ❒ Made/Developed in India

4. For this product you are: ❒ Manufacturer/Developer ❒ Reseller/Dealer/Distributor

SOFTWARE

5. Category:
❒ Word Processor ❒ Database ❒ Spreadsheet
❒ Business/Office Automation ❒ DTP/Graphics ❒ OS/System SW
❒ Engg/CAD/CAM/Scientific ❒ Communication ❒ Utilities
❒ Development Tools/Compilers ❒ Vertical Application/Industry specific
❒ Other:_____ (Please specify)

6. Environment/OS:
❒ DOS ❒ OS/2 ❒ MS Windows ❒ Win NT
❒ Netware ❒ Win 95 ❒ UNIX or variant ❒ Other:_____ (Please specify)

7. Minimum hardware required:
❒ PC/XT ❒ AT-286/386SX ❒ AT-386DX
❒ AT-486 ❒ Pentium ❒ Power PC/Mac
RAM:_____ Disk space (MB):_____ ❒ Mouse

8. Price (including excise and CST) exclusive of local sales tax and octroi: _____
(Entries without prices will not be accepted.) _____

9. Brief Description of the product: (Please enter carefully, in block letters, at 1 word per box. Do not exceed 25 words)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE/PERIPHERALS/ACCESSORIES

A. Category:

- ❒ Desktop/Portable
- ❒ Workstation/Server
- ❒ Printer/Plotter
- ❒ Monitor
- ❒ Diskdrive
- ❒ Communication
- ❒ LAN Equipment
- ❒ Test & Measurement Equipment
- ❒ Add-On Card
- ❒ Power Eqpt/UPS/CVT
- ❒ Media
- ❒ Accessories/Furniture
- ❒ Other: _____ (Please specify)

B. End-user price (including excise and CST) exclusive of local sales tax and octroi: _____
(Indicate clearly the **configuration/model** for which the price is given. **Entries without prices will not be accepted).**

C. **Brief Description** of product (Please enter carefully, in block letters., at 1 word per box. Do not exceed 25 words):

Name:

Designation:

Organization:

Address:

City: Pin

Tel:

Fax:

E-mail:

(Enclose your visiting card, if available, with this form.)

I declare that the information in this form is complete and correct, and will be valid till June 1996. This product (or an upgrade) will be available from us upto December 1996.

(signature and seal)

Mark the envelope **PC Quest Products Annual 96** and mail to the PC Quest Bureau in your region:

506 Meghdoot, 94 Nehru Place, **New Delhi** 110019

2 Jain Chambers, 577 SV Road Bandra, **Bombay** 400050

401 4th Floor MBC, 134 Infantry Road, **Bangalore** 560001

VII Floor Guna Buildings, 304/305, Mount Road, Teynampet, **Madras** 600018

4 Motilal Nehru Nagar, 1st Floor, Begumpet Main Rd, **Hyderabad** 500016

Souryas Business Centre, 233/3 AJC Bose Road, **Calcutta** 700020

Note: While every possible effort will be made to include a valid entry, PC Quest reserves the right to include or exclude any product without assigning any reason whatsoever.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PROTECT YOUR SOFTWARE PRODUCTS

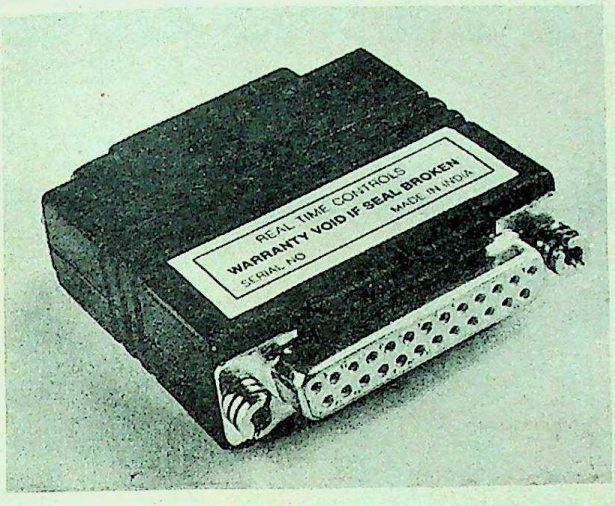
Hardware and software locks for software protection

Supports

DOS
Windows
Novell Netware
Unix
Linux

Dos Extenders

Pharlap
Rational
Blinker
Causeway
and others



Compilers

Microsoft Visual C++
Borland C++
Watcom C++
Clipper
Foxpro
Visual Basic
MS Office Products

NEW
Hardware lock model ECP-7
Supports software renting
User programmable permanent memory
Facility to Monitor program execution count

Features*

- Each lock is unique and a software protected with one lock will not work with another.
- Automatic installation of normal DOS Executables without need for source code
- Extensive interface library support for all operating platforms
- Facility to upgrade software without recalling the device
- Facility to monitor number of program executions
- Single lock on a network supports multiple workstations
- Specify the number of copies of software that can be run simultaneously on the network
- User programmable permanent memory for customisation
- Hardware lock is transparent for normal printer operations

*Depends on the protection device type and model

Real Time Controls Pvt. Ltd.

9A, 8th Main Road,
VijayaNagar, Velachery
Madras - 42
Ph: 044-2351929, 2352929, 2353647
Fax: 044-2352929
Email: real.time@axcess.net.in

All products and brand names mentioned are trademarks or registered trademarks of their respective holders

CHHAYA

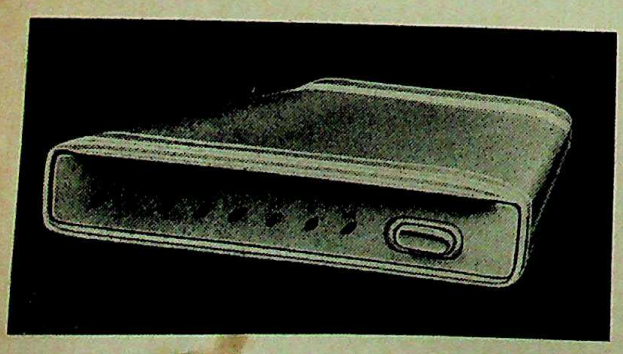
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Selecting a fax/modem was easy for one million users worldwide.

They simply asked for *Online*

Choose Online, the fax/modem with Voice Mail Function in addition to Communication (e-mail and fax) functions. In India, it comes with a 3-Year warranty from P-Mel and the support of its trained engineers. Further, you'll get 10 hours free access to e-mail/database services. Shouldn't P-Mel now be your most preferred source for procuring a fax/modem?



- External, Internal, Pocket and PCMCIA (in 14.4 as well as 28.8 kbps) types available.
- Data Compression • Built in CCITT V.42 bis/MNP 5.
- Universal Compatibility
- Caller ID* – Displaying of caller number on screen for identification
- Auto adjustment for optimizing operational speed.

* Optional

Online Fax/Modems

Manufactured and marketed by P-Mel Systems Division

Parekh Microelectronics (India) Ltd.

Corporate Office and Factory : B -13, 13/1,14, Electronics Estate, GIDC Sector - 25, Gandhinagar - 382 044. Tel : 02712 - 2901/2/3. Fax : 02712-29014. **Sales Offices - Bombay :** 16-B, Samhita Indl Estate, Off Andheri-Kurla Road, Bombay - 400 072. Tel : 022-516 4798, 8725. Fax : 022-515 2219. **Delhi :** 308, Ansal Bhavan, 16, Kasturba Gandhi Rd, New Delhi - 110 001. Tel : 011-3318313, 3313923, 3722475. Fax : 011-331 8273. **Bangalore** - 15, Gurappa Avenue, Primrose Road, Bangalore - 560 025. Telefax : 080-559 6573

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

The PCQ Market Monitor

st prices for software, hardware and peripherals. This listing lets you compare eatures and prices before buying. Use the Reader Query Service number (RQS o) and card to get more information about the products listed here

SOFTWARE

COMMUNICATIONS AND GROUPWARE

Product	Developer	Price	RQS No
Procomm Plus Network(5 users)	Datastorm	27,990	E031535
Procomm Plus 2.01	Datastorm	5,6900	E031533
Procomm Plus Win 2.11	Datastorm	7,890	E031534
WinFax Pro/Networks 5/4.0	Delrina	26,000	E03733
WinFax Pro/Networks 4.0	Delrina	25,000	E03731
WinFax Pro/Server 4.0	Delrina	12,000	E03732
WinFax Pro Single User 4.0	Delrina	7,995	E03730
DosFax Pro, Single User 2.0	Delrina	5,995	E03734
Notes 10 user	Lotus	135,000	E031586
Notes Desktop 10 user	Lotus	76,000	E031588
Notes Server	Lotus	15,500	E031584
Notes Client	Lotus	15,500	E031585
cc: Mail 10 user	Lotus	15,000	E031573
Notes Desktop	Lotus	9,000	E031587
Lotus Organizer	Lotus	5,500	E031559
MS Mail Server 3.2 DOS	Microsoft	26,230	E031821

COMPILERS

Fortran (DOS)	Softek	5,000	E03695
Fortran (LAN/Unix)	Softek	15,000	E03696
COBOL (DOS)	Softek	15,000	E03697
COBOL (LAN/Unix)	Softek	40,000	E03698
Pascal (DOS)	Softek	5,000	E03701
Pascal (LAN/Unix)	Softek	15,000	E03702

COMPUTER-AIDED DESIGN

AutoCAD 13 DOS/Win	AutoDesk	104,000	E031468
AutoCAD 12 DOS/Win	AutoDesk	93,500	E031467
AutoCAD 11 DOS	AutoDesk	46,500	E031466
AutoDesk Workcentre/Win	AutoDesk	33,000	E031472
DesignCAD 2D/DOS/5.25"	ASBC	9,500	E03801
DesignCAD 3D/DOS/5.25"	ASBC	16,150	E03802
DesignCAD 2D/Win/5.25"/CD	ASBC	17,975	E03803
DesignCAD 2D 7.0/Win/3.5"[1]	ASBC	21,250	E03804
DesignCAD 3D/3.5"/CD	ASBC	23,550	E03805
DesignCAD 2D/Win 95	ASBC	19,500	E03806
DesignCAD 3D/Win 95	ASBC	25,550	E03807
DesignCAD Office 95[2]	ASBC	59,800	E03808
DesignCAD 2D/3D 3.01/Mac	ASBC	21,250	E03809

[1]: With DesignCAD 2D symbols library
[2]: It includes DesignCAD 2D, DesignCAD 3D, Professional Symbols 2D/3D, Instant Estimator, Scanpro, video tutorials for 2D/3D
ASBC: American Small Business Computers

DATABASES

dBASE 5.0 for DOS	Borland	14,245	E031606
dBASE for Win Developers Kit	Borland	30,950	E031610
dBASE IV 1.5/2.0 for DOS	Borland	14,245	E031611
dBASE III+	Borland	13,145	E031614
Paradox 5.0 for Win	Borland	10,945	E031620
Paradox 4.5 for DOS	Borland	14,245	E031625
Delphi Standalone/CD	Borland	16,445	E031646
Delphi Client Server CD	Borland	98,945	E031647
Forehelp	Borland	4,345	E031652
Reportsmith 2.5 PC Databases	Borland	4,345	E031656
Filemaker Pro 2.1 Win	Claris	3,950	E031763
Filemaker Pro 2.1 Win 5 user	Claris	13,950	E031764
Lotus Approach	Lotus	4,750	E031558
Access 2.0 (Win/Win95)	Microsoft	15,390	E031846
Access Dev Kit 2.0	Microsoft	18,670	E031847

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Developer	Price	RQS No
FoxPro 2.6 Professional DOS	Microsoft	26,230	E031839
FoxPro 2.6 for Win	Microsoft	5,540	E031840
FoxPro 2.6 Professional Win	Microsoft	26,230	E031841
FoxPro 3.0 STD for Win	Microsoft	11,140	E031843
FoxPro 3.0 Professional Win	Microsoft	27,890	E031844
Backoffice Server for NT 1.5	Microsoft	133,760	E031781
Backoffice Client MLP 20 user	Microsoft	254,370	E031783
SQL Server for Win NT 6.0	Microsoft	60,350	E031790
SQL Workstation, Win NT 6.0	Microsoft	29,780	E031792
SQL Client/WinNT 6.0 MLP 20 user	Microsoft	143,930	E031794
SQL Client/Win NT 4.21 MLP	Microsoft	8,990	E031803
Personal Oracle 7	Oracle	15,830	E031485
Oracle7 Workgroup Server/user	Oracle	11,822	E031486
Oracle Power Objects/Standalone	Oracle	15,830	E031487
Oracle Objects for OLE	Oracle	7,895	E031489
Personal Oracle7 Enterprise Edition	Oracle	23,610	E03810
NLM/Sybase Workgroup 8 User	Sybase	95,000	E03735
NLM/Sybase Workgroup 12 User	Sybase	250,000	E03736
NLM/Sybase Workgroup 16 User	Sybase	295,000	E03737
NLM/Sybase Workgroup 32 User	Sybase	490,000	E03738
NLM/Sybase Workgroup 48 User	Sybase	750,000	E03739
NLM/Sybase Workgroup 64 User	Sybase	850,000	E03740
ACT! 2.0 WIN 3.5"	Symantec	7,800	E03667
ACT! 2.0 WIN Mobile Link 3.5"	Symantec	17,300	E03668
ACT! 2.1 DOS 5-Node	Symantec	23,600	E03669
Q&A 4.0 DOS 3.5"	Symantec	12,000	E03670
Q&A 4.0 DOS 3-Node 3.5"	Symantec	23,500	E03671
Q&A 4.0 WIN 3.5"	Symantec	9,800	E03672
Q&A 4.0 WIN 3 Node 3.5"	Symantec	17,900	E03673
Rangoli/Hindi/5.25"/3.5"	Fifth Generation	7,777	E03811
Rangoli/Gujarati/5.25"/3,5"	Fifth Generation	7,777	E03812
Rangoli/Gurmukhi/5.25"/3.5"	Fifth Generation	7,777	E03813

DTP/GRAPHICS

Pagemaker 5.0A Win LITE	Adobe	7,950	E031730
Illustrator 4.1	Adobe	21,950	E031732
Illustrator 6.0 Mac	Adobe	19,950	E031733
PhotoShop 3.0.4 Win	Adobe	31,950	E031735
PhotoShop 3.0 Mac/Win 5 user	Adobe	132,950	E031736
Persuasion 3.0 Win	Adobe	13,950	E031737
Premiere 4.0 Win	Adobe	28,950	E031739
Audition 1.0 Mac	Adobe	10,950	E031741
Fetch 1.2A Mac Server	Adobe	6,950	E031745
Fetch 1.2A Mac 10 user	Adobe	82,950	E031747
SuperATM Mac	Adobe	6,950	E031748
SuperATM Mac 5 user	Adobe	23,950	E031749
Type Align 2.1 Win/Mac	Adobe	3,950	E031750
Type Manager Win/Mac	Adobe	2,950	E031751
Type On Call 4.0 Win	Adobe	2,950	E031756
Acrobat 2.1 Win	Adobe	8,950	E031757
Acrobat Pro 2.1 Win	Adobe	22,950	E031758
3D Studio 4 DOS	AutoDesk	28,000	E031471
Animator Studio Win	AutoDesk	20,000	E031473
Animator Pro DOS	AutoDesk	20,000	E031474
CorelDraw 3.0 CD	Corel	4,950	E031703
CorelDraw 4.0 CD	Corel	7,950	E031705
CorelDraw 4.0 (Disks & CD)	Corel	9,950	E031706
CorelDraw 5.0 CD	Corel	24,950	E031708
CorelDraw 5.0 (Disks & CD)	Corel	32,950	E031709
Corel Ventura 5.0 CD	Corel	17,950	E031[illegible]
Corel Ventura 5.0 Disks	Corel	21,950	E031[illegible]
Corel Flow (Disks & CD)	Corel	4,950	E031[illegible]
Corel Photo-Paint 5 Plus CD	Corel	4,950	E031[illegible]
FrameMaker 4.0 Win/Mac	Frame	34,950	E031[illegible]
FrameMaker 4.0/Win addl user	Frame	30,950	E031[illegible]
Frameviewer 4.0 for Win/Mac	Frame	2,950	E031[illegible]
Frameviewer 4.0 5 user	Frame	6,950	E031[illegible]
Lotus Freelance DOS	Lotus	16,000	E031[illegible]
Freelance Graphics DOS/Win	Lotus	12,000	E031[illegible]
Director 4.04 Win/Mac	Macromedia	48,950	E031[illegible]
Action 3.0 Win	Macromedia	8,950	E031[illegible]
Action 1.0.4 Mac	Macromedia	8,950	E031[illegible]
Authorware 3.0 Win/Mac	Macromedia	189,950	E031[illegible]
Macromodel 1.5 Win/Mac	Macromedia	39,950	E031[illegible]
Designer Power Pack	Micrografx	35,000	E030[illegible]
Designer/Picture Publisher4.1/5.0	Micrografx	35,000	E030[illegible]
Designer TE4.1	Micrografx	19,500	E030[illegible]
Designer4.0	Micrografx	19,500	E030[illegible]
Charisma4.0	Micrografx	19,500	E030[illegible]
Picture Publisher 5.0	Micrografx	27,000	E030[illegible]
ABC Flowcharter4.0	Micrografx	19,500	E030[illegible]
Snapgrafx 2.0	Micrografx	7,500	E030[illegible]
Graphics Works 1.0	Micrografx	5,000	E030[illegible]
Windows Draw3.0	Micrografx	10,000	E030[illegible]
Windows Orgchart 2.0	Micrografx	5,000	E030[illegible]
Crayola Art Studio1.0	Micrografx	5,000	E030[illegible]
Crayola Art Adventure1.0	Micrografx	5,000	E030[illegible]
Powerpoint 4.0	Microsoft	15,390	E031[illegible]
Powerpoint Win 95	Microsoft	15,390	E031[illegible]
Fontpack 1/2 for Win 1.0	Microsoft	2,170	E031[illegible]
Publisher for Win 2.0	Microsoft	4,330	E031[illegible]
Publisher Design Pack/Win 2.0	Microsoft	1,230	E031[illegible]
HP Font Set for Win 1.0 MLP	Microsoft	1,740	E031[illegible]
TrueType Master Set	Microsoft	1,610	E031[illegible]

FINANCIAL ACCOUNTING

E.X 3.0	TCS	9,950	E0307[illegible]
E.X 3.0 LAN	TCS	19,950	E0307[illegible]
E.X 2.0	TCS	4,950	E0307[illegible]

HOME APPLICATIONS AND GAMES

ENTERTAINMENT

Product	Type	Price	RQS No
MS Flight Simulator for MS-DOS 5.00/Mac 4.00	3.5"	2,020	E030[illegible]
MS Space Simulator for MS-DOS 1.00	CD-ROM	2,020	E030[illegible]
MS Entertainment Pack 1/2/3/4 for Win 1.00	3.5"	1,240	E030[illegible]
MS Golf Course for Win 1.00	3.5"	930	E030[illegible]
MS SoundBits-MGM Movies for Win 1.00	3.5/5.25"	780	E030[illegible]
MS SoundBits-Musical Inst for Win 1.00	3.5/5.25"	780	E030[illegible]
MS Home Sampler for Win 1.00 Rel 3	CD-ROM	150	E030[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

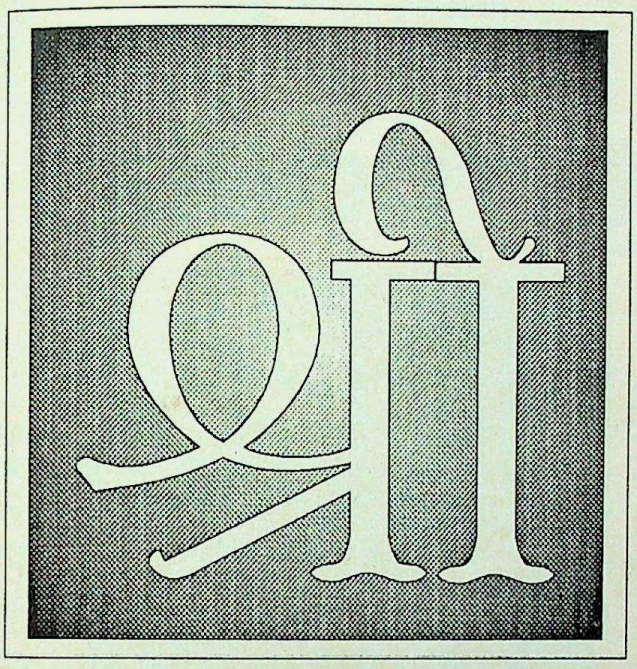
Digitized by Arya Samaj Foundation Chennai and eGangotri

OVER 1200 FONTS .. ALL INDIAN LANGUAGES...

DTP Solutions

OVER 5000 USER BASE ...
ON IBM 386/486 as well as Macintosh ...
WORKING UNDER WINDOWS-PAGEMAKER/CORELDRAW/VENTURA

Modular Systems has the largest library of fonts in Indian languages. You can have a unique choice of fonts. You can also have any two Indian languages of your choice in even the smallest package. Most popular windows applications like Pagemaker, Coreldraw, Ventura, MsWord are well supported. Even the smallest package comes with a built in multilingual text editor,



SHREE-LIPI

From

MODULAR SYSTEMS

format conversion utility and HP mirror printing utility. All these can be directly invoked from Windows. Shree-Lipi supports a large variety of popular keyboard layouts. Shree-Lipi fonts are also available on Macintosh platform. Using Shree-Lipi makes you a member of over 5000 satisfied Modular DTP software user base, who keep getting good after sales support.

26,Electronic Co-op.Estate,Pune-Satara Road
Pune 411 009. Tel.:(0212) 437994,423510
Fax:(0212)452323

AUTHORISED DEALERS:

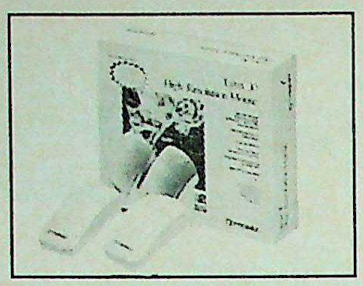
AMRAVATI: ◆M.M.Enterprises Ph-662567/661508 Gupta Sales & Services Ph-78165 **BANGALORE:** File Server Ph-6637564 **BARODA:** Cosmos Computer Services Ph-541473 **BHUBANESWAR:** Oricom Systems Ph-400343 ◆Lalani International Ph-402013 **BOMBAY:** Prografik Ph-3856044 ◆Embient Computers Ph-2612659 ◆A1 Systems Ph-4375484 **CALCUTTA:** Compu Care Ph-2444452 **CUTTACK:** Computer Lab Ph-612893 **DHULE:** Micro-Tech Computers Ph-20340 **GUWAHATI:** Analac Services Ph-571739 ◆Datamation Ph-548610 **GWALIOR:** Revon Reprographic Systems Ph-328927 **HUBLI:** Computech Graphics Ph-53064 **HYDERABAD:** Anu Graphic Systems Ph-230576 **INDORE:** Veltronics Ph-430194 ◆The Software People Ph-493561 **JAIPUR & RAJASTHAN:** Nirmal Kumar Mani Kumar Ph-311420 **KOLHAPUR:** Real-Time Computers Ph-23662 **MADRAS:** Anu Graphic Systems Ph-4344594 ◆Picatype Ph-452783 **MALKAPUR:** Excel System and Services Ph-22625 **NASIK:** Arvind Computers Ph-72673 ◆Pratik Microsystems Ph-76550 **PHALTAN:** Alfa Computers Ph-3126 **PUNE:** G.J.Ghaisas & Co. Ph-321825 ◆DSS Ph-622501 ◆Picatype Ph-620154 ◆Priya Informatics (p) Ltd. Ph 449297 ◆Heera Computers. Ph 457188 ◆Everex Inc. Ph 470409 **ROURKELA:** Unitech Engineers Ph-8267/893127 **SANGLI:** Computer Systems Ph-77019 ◆Digicomp Systems Ph-340286 ◆Karan Computers Ph-76348 ◆Shri Computers Ph-74597 **SOLAPUR:** Skylark Computer Centre Ph-20537 **ULHASNAGAR:** Super Computers Ph-550095

NATIONAL DISTRIBUTORS: CIRRUS ELECTRONIC SYSTEMS LTD.
Cirrus Chambers, Kamala Height, 433, Somwar Peth,
Pune- 411001 Tel. : 633226 / 632236 / 630237 Fax: 0212-631132

Branch Offices / Service Centres:
AHMEDABAD: 449694
HYDERABAD: 294985
KANPUR: 217598 / 297327
BANGALORE: 3320083
BOMBAY: 4943544 / 4933950
COCHIN: 361023
MADRAS: 8274938
NAGPUR: 531414
SURAT: 32055

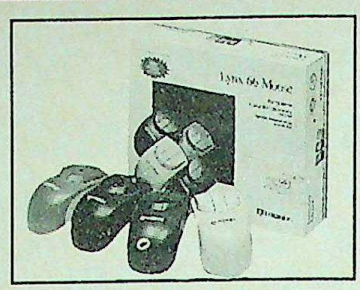
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Lynx 30 Mouse

Original white mouse; true 400 dpi; 20 to 6400 dpi variable resolution; standard & deluxe packages.



Lynx 60 Cordless Mouse

Available in white colour; 3 metres range; fully rechargeable 8 hrs operation; 20 to 6400 dpi variable resolution.

Draco 12 Digitizer

12" X 12"; 1000 lpi; AutoCAD templates; drivers for AutoCAD, Windows, digitizer & Mouse; emulates Summagraphics Binary & ASCII, GTCO Binary & CalComp 2000

Sagitta Gray Scanner

Maximum 800 dpi; 256 true gray ; TWAIN driver, Proimage Plus for Windows; JPEG file compression; OCR & Business Card Reader software for Windows; alternative package with PCMCIA type II interface card.

QTRONIX®

Spreading New Horizons in the Indian Market

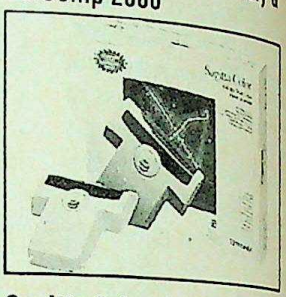
Qtronix is one of the leading manufacturers in the world. Their main product stream includes Mouse, Keyboards, Digitizers, Scanners, Joysticks, Trackball etc.

Sole Distributor for India:

PUSHPAM

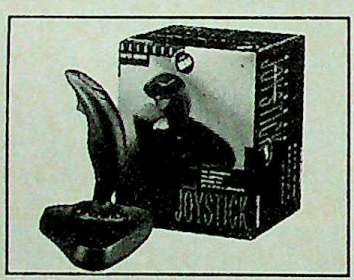
Computers & Softwares

635/1-B, New Gajara Society,
Bibvewadi, Pune 411 037.
Tel.: 0212 415162 / 411279 / 417885
Fax : (0212) 416455



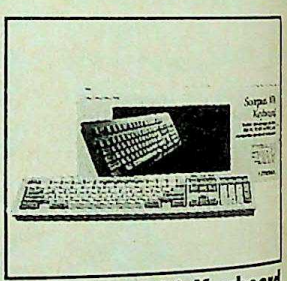
Sagitta Colour LE Scanner

24 bit; 16.8 million colours; 800 dpi with interpolation; TWAIN driver, ProImage Plus for Windows; JPEG file compression; OCR & Business Card Reader software for windows



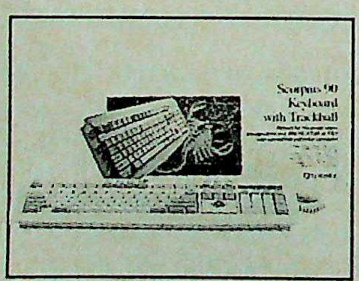
Orion 90 Joystick

Analog joystick design; 4 fire buttons; precision axis control; sturdy suction cups; attaches to any game port.



Scorpius101 Keyboard

Standard 101/102 key IBM XT/ AT & PS/2 compatible layout; rubber mechanical key switches; slim new design.



Scorpius 60 Keyboard with Trackball

Perfect for windows users; new IBM layout standard with mini trackball; 101/102 key compatible for IBM AT & PS/2; rubber mechanical key switches; variable resolution upto 6400 dpi; Pop-up Menus.

1 year warranty

Dealers & Resellers enquiries solicited

Bombay : DATA TECH CORPORATION, Ph.: 3863252, LALWANI ELECTRONICS, Ph. : 3865816, ORTEK COMPUTE... Ph.: 2081924, SAM-VIK MARKETING, Ph.: 3859276, **Nagpur :** BUSINESS ALGORITHMS, Ph.: 533703, **Hyderabad :** COMP... VALLEY, Ph.: 814025, **Delhi :** SKOPE, Ph.: 6421039, **Goa :** DOC-TOC COMPUTERS, Ph.: 720486, **Raipur :** UNIVERSAL EN... PRISES, Ph. : 27518, **Pune : S.P.SALES**, Ph. : 640684, **Ahmedabad :** SUMISHA COMPUTERS, Ph. : 6568850, VATSAL EN... PRISES, Ph.: 6420332, **Nasik :** A.R.TRADERS, Ph.: 580540, **Rajkot :** RAJESH ENTERPRISES, Ph. : 43415, **Madras :** F... SOURCE, Ph.: 8282239, **Bhopal :** FLO-ON ASSOCIATES, Ph. : 591122, **Bangalore :** INTERFACE CONNECTRONICS, Ph.: 22... SCAN MARKETING SYS, Ph.: 2225140, **Coimbatore :** KRISAN, Ph.: 210747, **Surat :** MASTER MIND COMPUTERISTS, Ph.: 6... **Mysore :** SIMHA ASSOCIATES, Ph.: 510805, **Belgaum :** POLARIS COMPUTERS, Ph.:425762, **Kolhapur :** ACE MARKETING, ... 638281, **Lucknow :** SURAJ COMPUTERS, Ph. : 383875, **Ahmednagar :** PRONET SYSTEM, Ph.: 27335, **Baroda :** HIGH T... INNOVATION, Ph. : 336608, NETWORK SYSTEMS, Ph.: 334581, **Jalgoan :** CRYSTAL ENTERPRISES, Ph. : 29562.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Type	Price	RQS No
IBS Arcade for Win 1.00/Mac 1.00	5.25"/3.5"	1,240	E03482
IBS Complete Baseball for Win	CD-ROM	1,300	E03498
IBS Basketball for Win/Win 95	CD-ROM	1,300	E03499
IBS Beethoven's 9th for Win 1.10	CD-ROM	1,300	E03484
IBS Musical Instruments for Win 1.00	3.5/5.25"	1,300	E03485
IBS Musical Instruments for Mac 1.00	CD-ROM	1,300	E03486
IBS Cinemania for Win/Mac	CD-ROM	2,490	E03488
IBS Cinemania for Win95	CD-ROM	1,300	E03489
IBS Ancient Lands for Win 1.00/ Mac1.00	CD-ROM	1,300	E03491
IBS Dinosaurs for Win 1.00/ Mac 1.00	CD-ROM	1,300	E03493
IBS Mozart for Win 1.00	CD-ROM	1,300	E03495
IBS Flight for Win 1.00	CD-ROM	1,300	E03496
IBS Flight for Mac 1.00	CD-ROM	1,410	E03497
Corel Adventures with Edison	CD-ROM	1,138	E03827
Corel Arcade Mania	CD-ROM	1,138	E03828
Corel Blue Tortoise	CD-ROM	1,138	E03829
Corel Nikolai's Trains	CD-ROM	1,138	E03830
Corel Green Bear	CD-ROM	1,138	E03831
Corel NN&N Toymakers	CD-ROM	1,138	E03832
Corel All Movie Guide	CD-ROM	1,138	E03833
Corel Red Rhino	CD-ROM	1,138	E03835
TIONING			
IBS Bookshelf for Win/Win 95	CD-ROM	3,110	E03462
IBS Bookshelf for Mac	CD-ROM	3,110	E03464
IBS Encarta for Win	CD-ROM	4,330	E03465
IBS Encarta for Win95	CD-ROM	2,180	E03466
IBS Encarta for Mac	CD-ROM	4,330	E03467
IBS Encarta World Atlas for Win95 1.00	CD-ROM	2,180	E03468
IBS Exploropedia/People for Win1.00 AE	CD-ROM	1,300	E03469
IBS AutoMap Road Atlas for Mac 2.00	3.5"	1,640	E03470
Corel Wild Cards	CD-ROM	1,138	E03837
Corel Internet Mania	CD-ROM	1,138	E03838
Corel Complete Herman Collect	CD-ROM	1,138	E03839
Corel Interactive Alphabet	CD-ROM	1,138	E03841
Corel World's Greatest Classic Books	CD-ROM	1,138	E03842
Corel Bernard of Hollywood's Marilyn	CD-ROM	1,138	E03843
ROSETTA STONE SERIES			
Power Pac (Win/Mac)	CD-ROM	2,500	E03608
French Level A (Win/Mac)	CD-ROM	8,800	E03609
German Level 1A (Win/Mac)	CD-ROM	8,800	E03610
Spanish Level 1A (Win/Mac)	CD-ROM	8,800	E03611
Russian Level 1A (Win/Mac)	CD-ROM	8,800	E03612
English Level 1A (Win/Mac)	CD-ROM	8,800	E03613
DIVIDUAL TRAINING FOR			
Ami Pro (Win)	3.5"	2,518	E03614
cc:Mail (Win)	3.5"	2,518	E03615
Lotus 1-2-3 (Win)	3.5"	2,518	E03616
Lotus Approach(Win)	3.5"	2,518	E03617

Product	Type	Price	RQS No
Lotus Freelance(Win)	3.5"	2,518	E03618
Microsoft Access(Win)	3.5"	2,518	E03619
Microsoft Excel(Win)	3.5"	2,518	E03620
Microsoft Mail(Win)	3.5"	2,518	E03621
Microsoft Word(Win)	3.5"	2,518	E03622
OS/2 (Win)	3.5"	2,518	E03623
PageMaker (Win)	3.5"	2,518	E03624
PowerPoint (Win)	3.5"	2,518	E03625
Win (Win)	3.5"	2,518	E03626
WordPerfect(Win)	3.5"	2,518	E03627
Microsoft Office	3.5"	10,080	E03628
Lotus Smartsuites	3.5"	10,080	E03629
DOS	3.5"	2,518	E03630
Novell DR DOS	3.5"	2,518	E03631
PC (DOS)	3.5"	2,518	E03632
dBASE IV (DOS)	3.5"	2,518	E03633
LANs with Data Com (DOS)	3.5"	2,518	E03634
Lotus 1-2-3 (DOS)	3.5"	2,518	E03635
Lotus Macros (DOS)	3.5"	2,518	E03636
Paradox (DOS)	3.5"	2,518	E03637
Project Management/Dos	3.5"	2,518	E03638
WordPerfect (DOS)	3.5"	2,518	E03639
TypingInsructor/Dos	3.5"	1,798	E03640
Mac (Mac)	3.5"	2,518	E03641
Microsoft Excel(Mac)	3.5"	2,518	E03642
Microsoft Word (Mac)	3.5"	2,518	E03643
PageMaker (Mac)	3.5"	2,518	E03644
Typing Instructor/Mac	3.5"	1,798	E03645
Multimedia(Win & Mac)	CD-ROM	3,598	E03646
Multimedia Typing Instructor/Win	CD-ROM	1,798	E03647
Ami Pro/Win	3.5"	3,598	E03648
cc:Mail (Win)	3.5"	3,598	E03649
Lotus 1-2-3/Win	3.5"	3,598	E03650
Lotus Approach/Win	3.5"	3,598	E03651
Lotus Freelance/Win	3.5"	3,598	E03652
Microsoft Access/Win	3.5"	3,598	E03653
Microsoft Excel/Win	3.5"	3,598	E03654
Microsoft Mail/Win	3.5"	3,598	E03655
Microsoft Word/Win	3.5"	3,598	E03656
PowerPoint/Win)	3.5"	3,598	E03657
Win/Win	3.5"	3,598	E03658
WordPerfect/Win	3.5"	3,598	E03659
Microsoft Office/Win	3.5"	13,140	E03660
Lotus Smartsuite/Win	3.5"	13,140	E03661

Note: AE-Acadeemic Edition

INTERNET PRODUCTS

Netscape Navigator 1.1/Mac/Unix	Netscape	3,950	E03844
Netscape Navigator 1.2/Win/NT/ Win95	Netscape	3,950	E03845
Netscape Navigator 2.0 Gold for Win/NT/Win 95/Mac/Unix	Netscape	5,950	E03846
InternetSuite		2,990	E03847
Quarterdeck Mosaic	Quarterdeck	1,690	E03848
Quarterdeck WebServer	Quarterdeck	8,590	E03850
Larry Magid Essential Internet		1,890	E03851
WebCompass		6,890	E03852
WebTalk		3,790	E03853

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Type	Price	RQS No
WebAuthor		3,590	E03849
IWare Connect 5 user		39,990	E03854

MEMORY MANAGEMENT

Cleansweep	Quarterdeck	2,890	E031531
DESQVIEW/X	Quarterdeck	13,890	E031525
DESQVIEW	Quarterdeck	4,990	E031528
DESQVIEW/386	Quarterdeck	7,690	E031529
QEMM 7.1	Quarterdeck	4,990	E031524

DEVELOPMENT TOOLS

MS Professional Basic for MS-DOS 7.10		18,720	E03448
MS Quick Basic for MS-DOS 4.50		7,530	E03449
MS Visual Basic for Win 4.00 Update		2,660	E03450
MS Visual Basic for Win 4.00		5,320	E03451
MS Visual Basic for MS-DOS 1.00		7,530	E03452
MS Visual Basic for MS-DOS AE 1.00		1,890	E03453
MS Visual Basic for Win 3.00 Mul 10 UserAE		11,310	E03454
MS Visual Basic Pro for Win 3.00 CompUpg CDROM		11,150	E03458
MS Visual FoxPro for Win 3.00 Upg 3.5"		5,550	E03460
MS FoxPro for Mac 2.60 AE 3.5" IntlEng (A)		4,880	E03461
Asymetrix ToolBook 4.0		11,495	E03855
Asymetrix Multimedia ToolBook 4.0/CD		63,710	E03856
Asymetrix Media Blitz		7,090	E03856

OPERATING SYSTEMS AND NETWORKING PRODUCTS

Win NT Server 3.51	Microsoft	41,030	E031775
Win NT Workstation 3.5	Microsoft	17,820	E031813
Win NT Workstation 3.5 MLP	Microsoft	15,130	E031814
MS DOS 6.22 RUP	Microsoft	2,050	E031897
MS DOS 6.22 RUP 20 user MLP	Microsoft	32,770	E031899
Win for Workgroup 3.11	Microsoft	5,810	E031900
Win for Workgroup 3.11 MLP	Microsoft	5,030	E031901
Win for Workgroup 3.11 20 user MLP	Microsoft	93,100	E031902
Win 95	Microsoft	6,770	E031906
Personal NetWare	Novell	3,950	E031658
Novell DOS 7	Novell	2,950	E031659
NetWare 3.12 5 Users	Novell	35,950	E031660
NetWare 3.12 25 Users	Novell	118,950	E031662
NetWare 3.12 50 Users	Novell	159,950	E031663
NetWare SFT 4.1 Upto 100 users	Novell	47,950	E031672
NetWare 4.1 5 User CD	Novell	35,950	E031674
NetWare 4.1 25 User CD	Novell	118,950	E031676
NetWare 4.1 50 User CD	Novell	159,950	E031677
SCO Desktop System 1 user CD	SCO	46,800	E031491
SCO Enterprise System 5 user CD	SCO	76,400	E031493
SCO Development System	SCO	46,800	E031494
SCO Openserver 10 user Host/Server	SCO	30,000	E031495
SCO Openserver 25 user Host/Server	SCO	60,400	E031496

PROGRAMMING TOOLS AND LANGUAGES

Product	Developer	Price	RQS No
Borland C++ 4.5 DB Tools Super Pack	Borland	41,950	E03[illegible]
Borland C++ 4.5 DOS	Borland	19,950	E03[illegible]
Borland C++ 4.5 Win NT	Borland	11,950	E03[illegible]
Borland C++ 4.5 and Database Tools	Borland	28,950	E03[illegible]
Borland DatabaseEngine for Win	Borland	15,950	E03[illegible]
Borland Visual Solution Pack	Borland	3,950	E03[illegible]
Borland Power Pack for DOS	Borland	3,950	E03[illegible]
Runtime Library Source Code	Borland	3,950	E03[illegible]
Turbo Assembler DOS	Borland	3,950	E03[illegible]
Borland Pascal 7 with Objects DOS/Win	Borland	19,950	E03[illegible]
Turbo C++ 3.0 for DOS	Borland	6,950	E03[illegible]
Turbo C++ Visual Edition/Win	Borland	6,950	E03[illegible]
Turbo Pascal 7.0 DOS	Borland	6,950	E03[illegible]
Borland SQL Link/Win	Borland	3,950	E03[illegible]
SQL Programmer Toolkit for Win NT 4.21	Microsoft	25,570	E03[illegible]
Multimedia Toolkit for Win	Microsoft	12,330	E03[illegible]

PROJECT MANAGEMENT

MS Project 4.0 DOS	Microsoft	16,480	E03[illegible]
MS Project 4.0 Win	Microsoft	23,140	E03[illegible]
MS Project for Win 95	Microsoft	23,440	E03[illegible]
Time Line 5.0 Dos 5.25"	Symantec	25,100	E03[illegible]
Time Line 6.1 Win 3.5"	Symantec	25,100	E03[illegible]
Time Line Guide Maker 1.1 Win	Symantec	17,900	E03[illegible]
Time Line Report Maker 1.0 Win 3.5"	Symantec	4,700	E03[illegible]

SPREADSHEETS

Lotus 1-2-3 2.4	Lotus	12,000	E03[illegible]
Lotus 1-2-3 2.4 5 user	Lotus	48,000	E03[illegible]
Lotus 1-2-3 4.0	Lotus	13,500	E03[illegible]
Lotus 1-2-3 4.0 5 user	Lotus	54,000	E03[illegible]
Lotus 1-2-3 5.0	Lotus	12,000	E03[illegible]
Excel 5.0 Win	Microsoft	15,390	E03[illegible]
Excel for Win'95	Microsoft	15,390	E03[illegible]
Quattro Pro 5.5 DOS	Novell	2,950	E03[illegible]
Quattro Pro 5.5 DOS 10 user	Novell	29,950	E03[illegible]

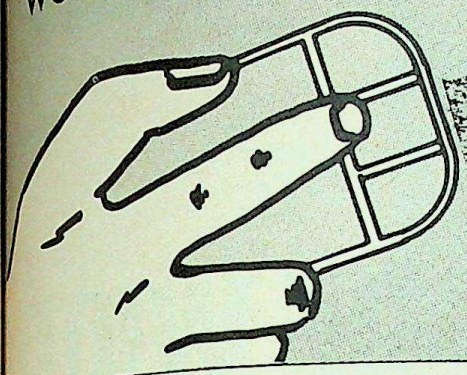
SUITES

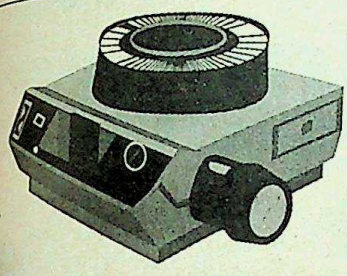
ClarisWorks 3.0 Win	Claris	5,950	E03[illegible]
Notesuite Desktop	Lotus	24,000	E03[illegible]
Lotus SmartSuite 3.0 (Disks & CD)	Lotus	19,000	E03[illegible]
Lotus SmartSuite 3.0 5 user	Lotus	72,500	E03[illegible]
Lotus SmartSuite 3.0 10 user	Lotus	135,000	E03[illegible]
Office 4.2 Std	Microsoft	18,500	E03[illegible]
Office 4.3 Pro	Microsoft	23,500	E03[illegible]
Works for DOS 3.0	Microsoft	4,330	E03[illegible]
Works for Win 3.0	Microsoft	4,330	E03[illegible]
Works for Win 95	Microsoft	3,460	E03[illegible]
PerfectOffice 3.0 Std	Novell	22,950	E03[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Software Picasso and Henry Ford would have loved to use!





MICROGRAFX

CHARISMA 4.0

"Powerful presentations made simple - The complete multimedia & presentation tool for windows."

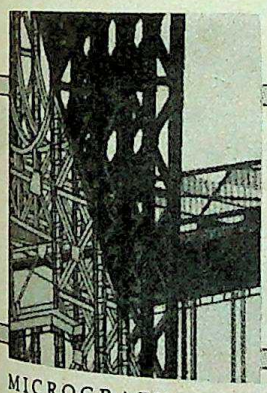
LICENCE FEE Rs. 19,500/-

MICROGRAFX

PICTURE PUBLISHER 5.0

"Do the Undoable - The fastest, easiest, most powerful image editor for windows."

LICENCE FEE Rs. 27,000/-



MICROGRAFX

DESIGNER 4.1 (Technical Edition)

"The complete design and communication tool for technical illustrators."

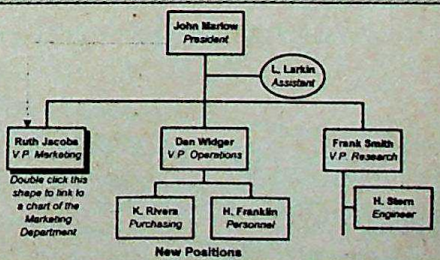
LICENCE FEE Rs. 19,500/-

MICROGRAFX

ABC FLOWCHARTER 4.0

"Visualize, to work faster, easier, smarter."

LICENCE FEE Rs. 19,500/-



Softek Limited : M-42, Commercial Complex, Greater Kailash-II, New Delhi-110048. Ph : (011) 641-5312, 6482681, Fax : (011) 648-2680

REGIONAL OFFICES:

- 3rd Floor, Raja Rajeswari Towers, 29-30, Dr. Radhakrishnan Salai, Madras : 600004, Ph. (044) 825-8804, 824-0971
- Shyam Kamal 'A' 1st Floor, Opp. Railway Station Vile Parle (East) Bombay : 400057, Ph : (022) 6101147, 6101170 Fax : (022) 6116756
- 1301, Brigade Towers, 135, Brigade Road, Bangalore : 560025, Ph : (080) 2213853, Fax : (080) 221-7655
- 237, Jodhpur Park, Calcutta : 700068, Ph : 4734137

AUTHORISED TRAINING CENTRES

- Zonix Computers, Trichy, ● Computer Consultancy, Jaipur, Ph : 0141-319599
- AVG Computers, New Delhi, Ph : 011-6838620 ● VSB Enterprises, Gurgaon Ph : 0124-331630
- NIIT, New Delhi, Ph : 011-6462158, 7427646 ● Enigma, Bangalore, Ph : 080-2281662
- Glider Technologies, Cochin, Ph : 0484-372346

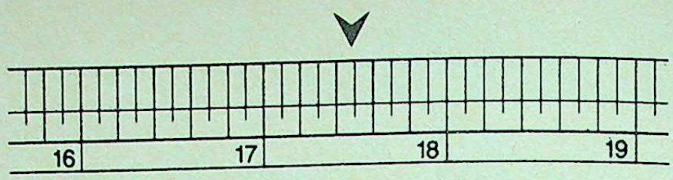
SOFTEK

WORLD CLASS SOFTWARE WITHIN YOUR REACH

m & m/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



WHEN YOU TALK OF WIDTH EVERY "INCH" COUNTS

*** Widest Carriage :** Lipi offers widest carriage in Line Matrix Printers - 17 1/2 inches (optional). 1 1/2 inch of added carriage width to accommodate large size forms like two Bank Cheques / Share Certificates printed abreast, thus doubling the throughput as compared to the competition. This gives you an advantage of having two printers for the price of one.

Additional benefits of Mannesmann Tally Lipi Line Matrix Printers :

*** Proven Reliability :** In India with thousands of installations against nil of competition.

*** Superior Print Quality :** Because of hard matcrial used for printing elements.

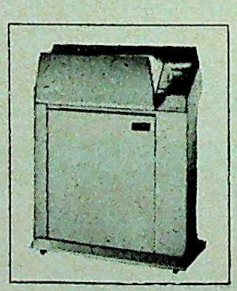
*** Superior Paper Transport :** 4 tractors f reliable and fast paper movement and also revers paper motion for printing graphics. Competition ha only 2 tractors.

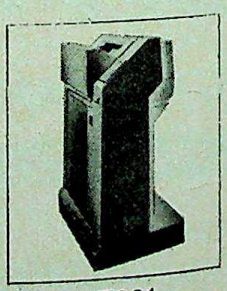
*** Multiple Interface :** Simultaneously acti serial and parallel shared interfaces with a switching, while competition requires selection fro the front panel.

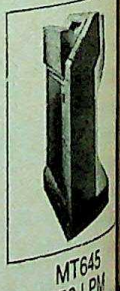
*** In-line ethernet interface :** Network printer

EXCELLENT BUY FOR PRINTING SHARE CERTIFICATES / BANK CHEQUES

LIPI EXCELS IN HIGH SPEED, HEAVY DUTY COMPUTER PRINTERS


MT691
1400 LPM


MT661
800 LPM


MT645
450 LPM

LIPI DATA SYSTEMS LTD.
Head Office : Mittal Chambers, Nariman Point, Bombay - 21.
Tel: 2882960 / 61 / 62 / 63 / 64. Fax: 91-22-2873314.

MANNESMANN Tally

ISO 9001

- **Bombay :** Ph.2882960 / 2882964 • **Delhi :** Ph. 6467228 / 6217392 • **Calcutta :** Ph. 2429435 / 2429550
- **Bangalore :** Ph. 2272954 / 2272955 • **Madras :** Ph. 8283804 / 8281256 • **Udaipur :** Ph. 521700
- **Hyderabad :** Ph. 815185 • **Lucknow :** Ph. 235812 • **Nagpur :** Ph. 523187 / 526761 • **Bhopal :** Ph. 571541
- **Panaji :** Ph. 223712 • **Pune :** Ph. 455729 / 454449 • **Ahmedabad :** Ph. 6569170 • **Baroda :** Ph. 328256

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Developer	Price	RQS No
PerfectOffice 3.0 Pro	Novell	29,950	E031695

UTILITIES

Disk Baler	Techtools	14,590	E031537
Saver 6.0	Techtools	14,590	E031538
Saver Dicer 1.0	Techtools	43,990	E031543
Format	Techtools	16,990	E031544
Fast Tools Pro DOS 9.0	Central Point	6,975	E03722
Fast Tools Win 2.0	Central Point	6,975	E03723
Fast Antivirus Dos 2.2	Central Point	4,500	E03724
Fast Antivirus Win 2.0	Central Point	4,500	E03725
Base Tools for NetWare 1.5	Central Point	4,000	E03726
Fast Antivirus for NetWare Dual	Central Point	19,950	E03727
5 User 2.5	Central Point	30,500	E03728
Fast Antivirus for NetWare Dual	Central Point	110,000	E03729
10 User 2.5			
Fast Antivirus for NetWare Dual			
50 User 2.5			
Navi 3.01/DOS/5.25"/3.5"	Fifth Generation	1,888	E03866
Navi 3.01/LAN/5.25"/3.5"	Fifth Generation	1,888	E03867
Backup	Quarterdeck	2,890	E031530
Optimizer	Quarterdeck	4,490	E03861
QEMM 8	Quarterdeck	2,290	E03862
QuarterSweep	Quarterdeck	2,290	E03863
QuarterSAM 2	Quarterdeck	3,290	E03864
WinProbe 4	Quarterdeck	4,490	E03865
WinView	Sonata	6,995	E03682
Fast Tools Pro Dos V9.0 3.5"/5.25"	Sonata	5,000	E03683
Fast Tools Pro Dos V9.0 3.5" AE	Sonata	6,995	E03684
Fast Tools Win V2.0 3.5"	Symantec	6,400	E03662
Norton Utilities 8.0 DOS/WIN	Symantec	3,600	E03663
Norton Editor 2.0 3.5"	Symantec	3,600	E03664
Norton Commander 5.0 DOS	Symantec	5,400	E03665
Norton Backup 2.2 DOS 3.5"	Symantec	6,400	E03666
Norton Backup 3.0 WIN 3.5"	Symantec	14,900	E03674
Navi 10-User/NetWare 2.0 Dos/Win	Symantec	161,000	E03675
Navi 50-User/NetWare 2.0 Dos/Win	Symantec	23,000	E03676
Navi 10-User/Networks 2.0/Win	Symantec	108,000	E03677
Navi 50-User/Networks 2.0/Win	Symantec	8,400	E03678
Norton Utilities Administrator/5-User	Symantec	36,500	E03679
Norton Utilities Administrator/25-User	Symantec	3,600	E03680
Navi for Win 95 3.5"	Symantec	6,400	E03681
Norton Utilities/Win95 3.5"	Symantec	5,600	E03715
Norton Desktop for DOS/WIN 3.0	Symantec	5,600	E03716
Norton Utilities 8.0	Symantec	6,200	E03717
Norton PC Anywhere DOS/WIN 5.0	Symantec	4,050	E03720
Norton Antivirus 3.0	Symantec	13,975	E03721
Norton Antivirus for NetWare 2.0	TCS	5,495	E03712
Diskpack Rel 3.0	Unistal	3,990	E03713
Diskfix 4.0	Unistal	990	E03714
Virus Darshak 1.0			

WORD PROCESSORS

Lotus Ami pro	Lotus	4,750	E031557
Word 6.0 for DOS	Microsoft	15,390	E031871
Word 6.0 for Win	Microsoft	15,390	E031873
Word Assistant for Win 1.0	Microsoft	2,030	E031877
Proofing Tools for Win/DOS	Microsoft	3,080	E031878
WordPerfect 6.0 DOS	Novell	9,950	E031683
WordPerfect 6.1 Win	Novell	14,950	E031685
Wordstar 7.0	Wordstar	2,990	E03685
Wordstar 6.0	Wordstar	1,990	E03686
Wordstar 4.0	Wordstar	990	E03687
Wordstar 6.0 (Server Pack)	Wordstar	1,990	E03688
Wordstar 6.0 (Node)	Wordstar	1,500	E03689
Wordstar for Win 4.0	Wordstar	1,500	E03690
Wordstar for Win 4.0	Wordstar	4,995	E03691

Prices provided by:

- **AutoDesk:** HOPE, B-1 Geetanjali Enclave, New Delhi 110017. Tel: 11-6851979, 6866441. Fax: 11-6866494
- **DesignCAD, Corel CDs:** Svam Software, 11-Abul Fazal Road, Bengali Market, New Delhi-110001 Tel: 11-3320224, 3731844 Fax: 11-3723266
- **IAVT/Rangoli:** Fifth Generation Software, 140, Zamrudpur, Opp. LSR, New Delhi 110048 Tel:11-6210808, 6224997, 6229805
- **Microsoft, SCO, Borland, Novell, Corel, Lotus, Datastorm and Quarterdeck products:** Dynamic Computer Services, Sun Flower, 170 Lloyds Road, Gopalapuram, Madras 600086. Tel: 44-8272726, 8271684, 8272749; Binary Semantics, A-6, C Block Community Centre, Naraina Vihar, New Delhi 110028 Tel: 11-533544, 5415615 Fax: 11-5459406
- **Datastorm, Quaterdeck, Techtools, Internet products:** Unison Computer Systems, 164, Senapati Bapat Marg, Matunga(WR), Bombay 400016 Tel: 22-4374671
- **Oracle, Frame, Microsoft, Adobe, Borland, Corel, Frame, Macromedia, Novell, Lotus, SCO, Symantec, Central Point, Delrina, Softek, Unistal, TCS:** Tulip Software, J-31, South Extension, Part-I, New Delhi 110049 Tel:11-4620410, 4694591 Fax: 11-4610292
- **Micrografx:** Softek, M-42, Commercial Complex, Greater Kailash II, New Delhi 110048 Tel: 11-6415312, 6447308 Fax:11-6482680
- **Microsoft:** Microsoft, 24 Paharpur Business Centre, Nehru Place, New Delhi 110019.
- **Netscape:** Wipro Systems, 88 MG Road, Bangalore 560080 Tel: 80-5588616 Fax: 80-5586952
- **Novell:** Onward Novell, Krislon House, 2nd Floor, Saki Vihar Road, Saki Naki, Bombay 400072. Tel: 22-8364180 Fax: 22-8364180
- **Lotus:** ITC, 28 Community Center, Basant Lok, Vasant Vihar, New Delhi 110057. Tel:11-6882556, 6872893. Fax: 11-6885339, 6872893
- **Oracle:** Oracle, 705 International Trade Tower, Nehru Place, New Delhi 110019. Tel: 11-6475286, 6475287. Fax: 11-6866494
- **CDs:** Lee & Nee Softwares, 14B Camac Street, Calcutta 700017. Tel: 33-4015153. Fax: 33-2477359

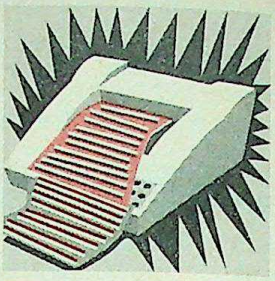
  Innoserv Systems, X-29 Hauz Khas New Delhi 110016. Tel: 11-6863058, 6968626 Fax: 11-696911

- **Attention:** While all prices were current at the time of going to press, readers are advised to reconfirm them with the vendors before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PERIPHERALS



KEYBOARDS

Product	Price	RQS No
Vintron 6251 CH/Cherry switches	1,000+T	E03227
Vintron 5263/membrane model	650+T	E03228
Vintron 2020C/Cherry switches	1,150+T	E03229
Ritika 1010C/Cherry switches	1,150+T	E03233
Ritika 2020C/Cherry switches	1,125+T	E03234

Note: +T—taxes

MODEMS

Product	Max Speed	Price	RQS NO
AT&T Comsphere 3810	33,600	95,000	E031941
AT&T Comsphere 3920	33,600	125,000	E031942
AT&T Dataport 2001	14,400	27,500	E031943
Motorola Lifestyle V34	28,800	19,000+T	E031234
Motorola 3266 V32 bis	28,800	51,000+T	E031235
Motorola 3266 V34	28,800	102,500+T	E031236
Motorola 3266 V34 SDC	28,800	128,000+T	E031237
Mutitech MT2834ZDX	28,800	18,950	E031947
Mutitech MT2834BL	28,800	39,950	E031948
Multitech MT1432BL	14,400	29,950	E03796
Nomus 9624 SE	2,400	7,500	E031949
Nomus 9624 SA	2,400	7,500	E031950
Nomus 1414 PC	14,400	10,000	E031951
Nomus 1414 SI	14,400	17,500	E031952
Nomus 1414 SD	14,400	25,000	E031953
Onetics Triton 14400	14,400	11,080	E031946
Onetics Triton 28800/SA	28,800	22,960	E031945
TeamLink 2024E	2,400	7,000	E031935
Teamlink 2144E	14,400	9,500	E031936
USR Courier V.34	28,800	40,500	E031931
USR Sportster V.34	28,800	21,500	E031932
USR Sportster SP14400	14,400	13,500	E031933
USR PCMCIA Fax Modem	14,400	17,500	E031934
ZyXel Elite 2864	28,800	30,950	E031944
Sportster SP 28800 (E)	28,800	22,500	E03383
Sportster SP 28800 (I)	28,800	29,500	E03384
Sportster SP 14400 (E)	14,400	13,500	E03385
Sportster SP 14400 (I)	14,400	11,500	E03386
Sportster SI 14400 (E)	14,400	8,500	E03387
Sportster VI 14400 voice	14,400	17,500	E03388
Sportster PCMCIA World Port	V.32 bis	17,500	E03389
Courier V.34	28,800	43,500	E03390
Microsense 14400 Data/Fax	14,400	11,500	E03391
Microsense 28800 Data/Fax	28,800	17,500	E03392

Note: Delrina software (DOS/Win) is supplied with US Robotics and Microsense modems

MONITORS

Product	Price	RQS No
Goldstar 1461D/14"/.28dpi/c	12,900+T	E03[illegible]
Goldstar 1467/.28dpi/c	13,300+T	E03[illegible]
Goldstar 1485/14"/.28 dpi/mm	14,400+T	E03[illegible]
Goldstar 1527/15"/.28dpi/c	20,800+T	E03[illegible]
Goldstar 1535/15"/.28dpi/c	22,500+T	E03[illegible]
Goldstar 1727/17"/.28dpi/c	42,000+T	E03[illegible]
Goldstar 2010/20"/.28dpi/c	64,800+T	E03[illegible]
Vintron HCN-28/NI/.28 dpi/14" c	11,500+T	E03[illegible]
Vintron HCI-28/I/.28dpi/14" c	11,100+T	E03[illegible]
Vintron First VGA Monitor/m	3,125+T	E03[illegible]
Ritika RCK 1421/I/.28 dpi/14" c	10,750+T	E03[illegible]
Ritika RCK 1441/NI/.28dpi/14" Green	11,350+T	E03[illegible]
Vintron Dual Frequency Monitor	2,875+T	E03[illegible]
Vintron Ultra VGA/m/a	3,400+T	E03[illegible]

Note: m-monochrome;a-anti-glare c-color NI-non-interlaced I-Interlaced mm-[illegible] +T-taxes

PLOTTERS

HP DesignJet 230(A1/D)/m	104,500	E60[illegible]
HP DesignJet 230 (A0/E)/m	140,500	E60[illegible]
HP DesignJet 250C(A1/D)/c	130,000	E60[illegible]
HP DesignJet 250C(A0/E)/c	175,800	E60[illegible]
HP DesignJet 600 (A1/D)/m	193,500	E60[illegible]
HP DesignJet 600 (A0/E)/m	228,800	E60[illegible]

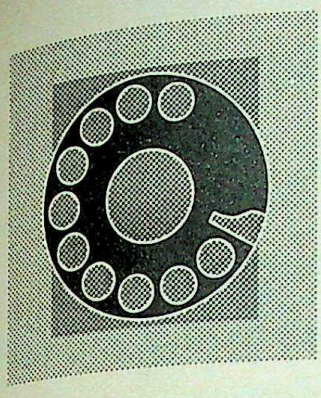
Note: All enhanced mode plotters w/4MB RAM and 600 dpi resolution m-monochrome, c-color, e-enhanced mode

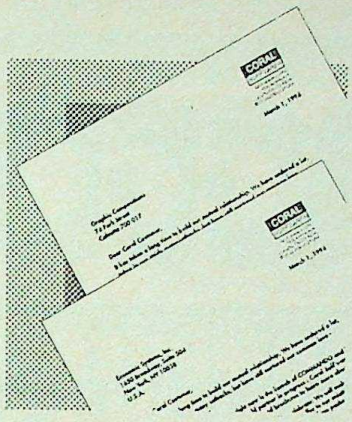
POINTING DEVICES

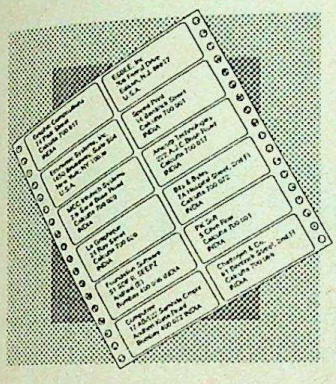
Genius Easy Mouse	422	E60[illegible]
Genius Mouse One	672	E60[illegible]
Genius Mouse Too	800	E60[illegible]
Genius Mouse 3	772	E60[illegible]
Genius Cordless Mouse	2,835	E60[illegible]
Genius TrackBall	1,859	E60[illegible]
Genius Joystick	658	E60[illegible]
Primax Mouse I Musige	486	E60[illegible]
Primax Mouse II Musige	701	E60[illegible]
Primax Echo Mouse IV	379	E60[illegible]
Logitech First Mouse	825	E60[illegible]
Logitech Mouseman Combo	2,300	E60[illegible]
Logitech Mouseman Cordless	6,500	E60[illegible]
Logitech Trackman Portable	2,150	E60[illegible]
Logitech Trackman II	2,500	E60[illegible]
Vintron Mouse MD-14	575	E60[illegible]
Logitech Dexxa Mouse	525	E60[illegible]

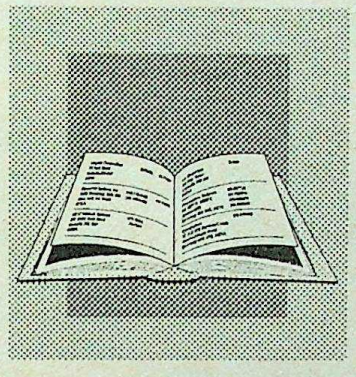
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri









Features

- Pocket size phone book •
- Address book •
- Built-in word processor •
- Mail merge letters •
- B'day & Anniversary Reminder •
- Telephone dialer •
- User defined fields •
- Tailor made reports •

OMEGA

Personal Information System

CORAL SOFT'WARES

al Consultants Pte Ltd
Lenin Sarani Calcutta 700 013 Tel: 275091, 267238 Fax: 033-273298 email: coral@cirrus.lwbbs.com

ors: Reliable Infotech Suite 315, 33/1 N S Road, Calcutta 700 001 Tel: 2214212 2211703
er Network: Bombay 5164713 Dehradun 24551 684159 Durgapur 823443 Golaghat 20207 20292 Hyderabad 599829
adpur 427471 431630 Lucknow 72342 Madras 582293 New Delhi 5758800, 5752388 Patna 659453 239714 Raipur 526375
Ranchi 202020 Raniganj 446271 Shillong 220244 Surat 634152 Varanasi 361984

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ACCORD

COMPREHENSIVE ACCOUNTING SOFTWARE

General Ledger, Sales & Purchase, Inventory, Manufacturing & MIS

Simply Better!

- Completely On-line & Integrated up to Balance Sheet
- Comprehensive Document Printing - Voucher, Receipts, Payment Advices, Bills, Challans & Orders
- Full featured Order Processing with fully / partially outstanding Order Register for Purchase / Production Planning
- Opening Documents - Sales & Purchase Bills (with Money and / or ST Form Due), Receipts, Payments, Debit Notes & Credit Notes
- Bill by Bill Adjustment among all types of Documents
- Special MIS Reports for Transaction & Party / Product Analysis, ABC Analysis, Cash Flow, Funds Flow, Interest Calculations, Expenses Audit
- Sales Tax Register with user selected Columns & ST Form Analysis
- Easy-to-use Checklists for all Documents
- Query Reports with ZOOM down to Document level
- User defined printing formats for Sales Bills (Excise Billing) & Account Confirmation
- Formula based BOM and Production Log entry with Rejection & Production Loss computation to give powerful Contractor-wise Analysis & Production Centre Analysis
- Intelligent Transaction Tracking & Renumbering by Voucher Series
- Compressed Backup with verified write & diskette signature
- Quick & Easy to install & operate
- Low Conventional Memory requirements
- True Multi-User (LAN) Version available on DOS 3.11 & above
- Multiple Concurrent Financial Periods with inter-period utilities
- Comprehensive User Reference Manual

EDP Corporation

216/2H, AJC Bose Road, Calcutta 700 017
Phones : (033) 247-7147, 40-8776 Fax : (033) 40-8776

DEALERS Ahmedabad, Bombay, Calcutta, Cochin, Goa, Guwahati
New Delhi, Patna, Raipur, Ranchi, Siliguri, Surat, Vizag and Kathmandu

DEALERS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Logitech Cyberman	5,500	E03263
Logitech Kidz Mouse	1,995	E03295
Logitech Mouseman Sensa	2,995	E03296
Logitech Trackman Voyager	2,995	E03297
Logitech Trackman Live	7,995	E03298
Logitech Trackman Marble	4,495	E03299
Logitech Trackman Vista	3,795	E03300

PRINTERS: DOT MATRIX

Product	Price	RQS NO
Canon BJ-10sx/360x360 dpi/110cps/ 3kB memory	9,995	E03875
Canon BJ-30/720x360 dpi/277cps/LCD display/ 35kB memory/m	15,995	E03876
Canon BJC-70/720x360 dpi/346 cps in m/35 k	22,995	E03877
B memory/c	11,995	E03878
Canon BJ-200ex/720x360 dpi/248 cps/ 82 kB memory/m	27,995	E03879
Canon BJC-4000/720x360 dpi/ B memory/248 cps/m	24,995	E03880
496 cps/c	37,995	E03881
Canon BJC-600/360x360 dpi/60 k B memory/240 cps		
Epson LX 300 [9/80]* 264 cps	9,900	E031196
Epson FX 1000 [9/136]*/ 240 cps	14,375	E031197
Epson FX 1050 [9/136]*/290 cps	17,500	E031198
Epson LQ 1020+ [24/136]*/289 cps	25,625	E031199
Epson LQ 1170 [24/136]* /289 cps	30,000	E031200
Epson DFX 5000+ [9/155]*/555 cps	60,000	E031201
Epson DFX 8000 [9/136]*/ 1066 cps	148,000	E031202
TVSE MSP 145Plus [9/132]*	13,995+T	E031241
TVSE MSP 155 [9/132]*	17,995+T	E031242
TVSE HD 6595 [9/132]*	27,495+T	E031243
TVSE HD 6045 [24/136]*	36,495+T	E03786
TVSE HD 6590 [9/80]*	23,995+T	E03787
TVSE HD 6040 [24/80]*	28,995+T	E03788
TVSE HD 5650 [24/106]*	85,000+T	E03789
TVSE HD 5000 [18/136]*	98,895+T	E03790
TVSE MSP 240 [9/80]*	8,995+T	E031244
TVSE NOVO 130 [9/80]*	7,295+T	E031245
TVSE NOVO 230 [24/80]*	10,495	E03782
TVSE Calligra Q10 [24/80]*	14,995	E03783
TVSE Calligra Q20 [24/80]*	16,995	E03784
TVSE Calligra Q25 [24/136]*	22,495+T	E031246
TVSE Calligra Q35 [24/136]*	27,995+T	E03785
Wipro LX 800 [9/80]*	9,350	E031261
Wipro LX 300 [9/80]*	9,800	E031262
Wipro LQ 100 [24/80]*	14,200	E031263
Wipro LQ 300 [24/80]*	15,600	E031264
WiproEX 1050 [9/132]*	18,500	E031265
Wipro FX 1170 [9/132]*	37,700	E031266
Wipro LX 1050 [9/132]	17,100	E031267
Wipro LQ 1050+ [24/132]*	26,000	E031268
Wipro LQ 1170 [24/132] *	39,270	E031269
Wipro LQ 1070 [24/132]*	26,650	E031270

Note: *—[pins/columns] +T-Tax c-color m-monochrome

PRINTERS: INKJET

Product	Price	RQS No
Apple Style Writer 1200	20,500	E031335
Apple Color StyleWriter 2200	30,200	E031336
Apple Apple Color StyleWriter 2400	34,300	E031337
Apple Color StyleWriter Pro	32,500	E031338
HP DeskJet 600/600 d/512 kB	18,000	E031171
HP DeskWriter 600/600 d/512 kB	18,000	E031174
HP DeskJet 850C/600 d/1 MB	28,889	E031179
HP DeskJet 1600C/8 p/600 d/4 MB	74,400	E031182
HP DeskJet 1600CM/8 p/600 d/6 MB	108,500	E031183
Epson Stylus 800 m	16,100	E031250
Epson Stylus 1000/A2 m	41,500	E031251
Epson Stylus 820/720 d/c	21,700	E031252
Epson Stylus Color IIS/720 d/c	26,500	E031253
Epson Stylus Color II/720 d/c	31,500	E031254
Epson Stylus Pro/720 d/c	44,500	E031255
Epson Stylus Pro XL/720 d/A3 c	131,000	E031256
Olivetti JP70/80col/3p/portable	20,400	E03779
Olivetti JP170/80col/3p	16,433	E03780
Olivetti JP470/80col/5p	25,500	E03781
TVSE NOVO 300/2p	9,995	E03791
TVSE Impress P20/page printer/4p	29,995	E03792

Note: d-dpi, c-color, m-monochrome, p-pages per minute

PRINTERS: LASER

Product	Price	RQS NO
Apple LaserWriter 4/600	55,000	E031339
Apple LaserWriter Select 360	75,000	E031340
Apple LaserWriter 16/600 PS	150,000	E031342
Apple QuickTake 150 for Mac	38,900	E031343
Apple Color LaserWriter 12/600	412,500	E031345
HP LaserJet 4+/12 p/600 d/2 MB	94,350	E031163
HP LaserJet LJ 4M+/12 p/600 d	127,500	E031164
HP LaserJet LJ 4V/16 p/600 d	130,050	E031167
HP LaserJet LJ 4MV/16 p/600 d	188,700	E031168
TVSE Impress P20	29,995+T	E031247
EpsonEPL 3000	34,000	E031248
EpsonEPL 9000 A3 Laser	172,000	E031249

Note: p-pages per minute, d-dpi

SCANNERS

Product	Price	RQS NO
Genius Scanmate 32	4,000	E031380
Genius Easy Scan 256	5,500	E031381
Genius Scanmate Color	11,500	E031382
Genius Color Page I	36,000	E031383
Genius Color Page II	48,000	E031384
Genius Fast Reader	18,000	E031385
HP ScanJet 4s	23,863	E03797
HP ScanJet 4c	66,145	E03798
HP 4si(Network-Ethernet)	169,789	E03799
HP ScanJet 4si(Network-Tokenring)	180,882	E03800
Primax SE42IX/HS	4,000	E031407
Primax SE42IG/HS	5,500	E031408
Primax SM403C-P/MS	18,500	E031409
Primax SP311/Datapen	14,300	E031410

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Primax Deskscan/Color FS	34,320	E031412
Logitech Scanman 32	5,200+T	E03264
Logitech Scanman 256	7,650+T	E03265
Logitech Scanman Easytouch	10,750+T	E03266
Logitech Scanman Color	13,900+T	E03267
Logitech Scanman Powerpage	29,000+T	E03268
Dexxa GS 32 Scanner	4,900	E03269
Dexxa GS 256 Scanner	7,500	E03270

Note: HS-Hand Scanner MS-Mobile Scanner FS-Flatbed Scanner

UPS SYSTEMS

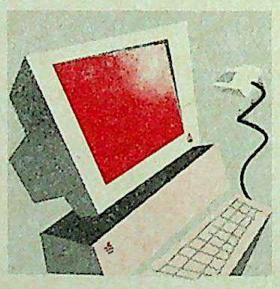
Product	Rating	Price	RQS_No
APC BK 250I	250VA	7,950	E03237
APC BK 400I	400VA	12,350	E03238
APC BK 600I	600VA	15,500	E03239
APC BK 900I	900VA	28,050	E03240
APC BK 1250I	1250VA	36,250	E03241
APC BP 280I	280VA	9,750	E03242
APC BP 420I	420VA	15,500	E03243
APC BP 650I	650VA	23,450	E03244
APC AP 600I	600VA	28,250	E03245
APC AP 900I	900VA	44,900	E03246
APC AP 2000I	2000VA	99,000	E03247
AP600I	600VA	28,650	E03421

Product	Rating	Price	RQS N
AP900I	900VA	45,000	E03
AP1250I	1250VA	60,500	E03
AP2000I	2000VA	94,500	E03
AP600XLI	600VA	63,750	E03
AP900XLI	900VA	73,350	E03
BP1000I	1000VA	40,000	E03
BP1400I	1400VA	51,500	E03
MX3000W	3000VA	215,000	E03
MX5000W	5000VA	297,000	E03
Aegis/Online	1000VA	44,995+T	E03
Aegis/Online	3000VA	89,995+T	E03
Aegis/Online	5000VA	189,995+T	E03
Powerchute Software AP 9001/Mac		4,300	E03
AP 9007/Plus for Win		3,000	E03
AP 9009/Plus for Win NT		4,300	E03

OTHERS

Logitech Soundman 16	4,200+T	E03271
Logitech Soundman Wave	13,900+T	E03272
Logitech Fotoman Pixture	83,995+T	E03301
Logitech Scanman Pagerscan	27,995+T	E03302
Logitech Wingman Light	995+T	E03303
Logitech Wingman	1,995+T	E03304
Logitech Wingman Extreme	2,495+T	E03305
Logitech Thunder Pad	995+T	E03306

HARDWARE



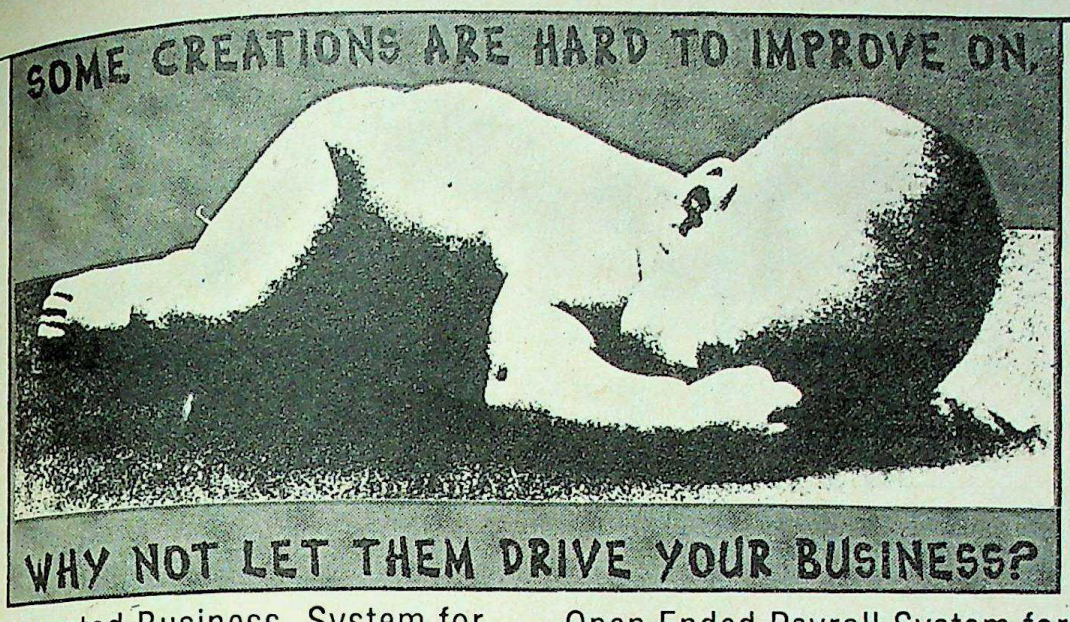
DESKTOPS

Product	Price	RQS NO
APPLE		
Mac LC 475/4 MB/250 MB HDD/ mono VGA	48,600	E031290
Mac LC 575/8 MB/250 MB HDD	96,200	E031291
MacLC 630/8 MB/350 MB HDD	96,200	E031292
Performa 580/8 MB/500 MB HDD	97,500	E031296
Performa 580/8 MB/500 MB HDD/CD-ROM	118,400	E031297
Performa 5200/8 MB/500 MB HDD/ CD-ROM	151,300	E031298
Performa 6200/8 MB/500 MB HDD	110,000	E031299
Performa 6200/8 MB/500 MB HDD	130,600	E031300
Power Mac 6100/66/8 MB/500 MB HDD/multiscan monitor	115,000	E031306
Power Mac 6100/66/16 MB/500 MB HDD/CD-ROM/15" monitor	127,600	E031307
Power Mac 7100/80AV/16 MB/700 MB HDD/CD-ROM	143,200	E031308

Product	Price	RQS N
Power Mac 7100/80/16 MB/700 MB HDD/CD-ROM	213,900	E03
Power Mac 8100/100/16 MB/700 MB HDD/CD-ROM	292,700	E03
Power Mac 8100/100/16 MB/1000 MB HDD/CD-ROM	348,800	E03
Power Mac 8100/110/24 MB/2000 MB HDD/CD-ROM	295,000	E03
Power Mac 9500/132/32 MB/2000 MB HDD/CD-ROM	492,100	E03
Power Mac 9500/132/32 MB/2000 MB HDD/CD-ROM	517,000	E03
Power Mac 7200/90/16 MB/500 MB HDD/CD-ROM	166,700	E03
Power Mac 7200/90/16 MB/1000 MB HDD/CD-ROM	186,000	E03
Power Mac 7500/100/16 MB/500 MB HDD/CD-ROM	162,400	E03

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



WORKHORSE

Integrated Business System for PCs & PCs LANs

Indias ONLY business system with focus on INVENTORY. It can handle manufacturing/trading inventory, costing, invoicing, ordering etc with ease ! Its accounting module is more powerful than most so-called accounting packages ! User-definable inventory item, transactions and documents !

Open Ended Payroll System for PCs & PCs LANs

Indias ONLY integrated PAYROLL system with inbuilt capacity to handle I.Tax estimation, deduction with Form 16 & 24. Handles loan & incentive calculations, Arrears, PF, Bonus, Gratuity, etc. with ease. Any number of Pay-heads with user configurable formulas !

VETAN

- **Systems based on state-of-the-art DTR technology. This gives the user undreamt of power and flexibility. It ensures that the systems have capacity to remain in-sync with ever-changing needs.**
- **Available in Stand alone/LAN, DOS/WINDOWS versions !!!**
- **Systems are priced in-line with non-DTR / non-Integrated systems.**

HERE IS A SELECTED USER LIST

Arthur Anderson ❑ Albright Morarji Pandit ❑ Arphi Electronics ❑ Ansul Chemicals Ltd. ❑ BPL mobile ❑ Crystal Audio Ltd. ❑ Divecha Glass Industries ❑ Damania Capital ❑ Datacraft ICIM ❑ Enron Oil & Gas ❑ GE Apar ❑ Guerera Synthetics ❑ Hamilton ❑ Infrastructure Leasing ❑ Indofil Chemicals ❑ Jollyboard ❑ Metro Shoes ❑ National Stock Exchange ❑ Mafatlal Industries ❑ Nagarika Exports ❑ Punjabi Chandu Halwai ❑ Proctor & Gamble ❑ Precision Electricals ❑ Reliance Capital ❑ Saraswat Co-op. Bank ❑ SOTC ❑ Stock Holding Corporation of India ❑ Technocraft Industries ❑ Themis Laboratories ❑ Tata Finance ❑ VOX Industries ❑ World Trade Centre.

SOFTLINK EXPORTS 310, Kharek Bazar, Bombay - 9. Tel.: 343 9545 / 72, 342 1268. Fax: 4153054.

Distributors : *Gujarat* - Nikka Computers, Baroda. Ph. 334796. **Dealers : *Bombay*** - Astromac Computer, Ph. 8075978. Kolte Computers, Ph. 6140520. On Track, Ph. 6480074. Soft Tech Consultants, Ph. 2675958. Prime Systems, Ph. 5167181. ***Bangalore*** - Complete Solution Inc, Ph. 6676177. M & M Marketing, Ph. 2256298. ***Madras*** - Adrisc Computing Solution, Ph. 4349487. ***Ludhiyana*** - World Link Computers, Ph. 36944. ***Delhi*** - Kernal Systems, Ph. 6447348. ***Goa*** - Professional Computer, Ph. 250701. ***Ankleshwar*** - Sorofftech, Ph. 24005.

DIPLOMA IN COMPUTERIZED BUSINESS SYSTEM

ATC enquiry welcome from existing training centres for conducting the popular DCBS (Diploma in computerized business system) course. A first ever 6 month diploma course that teaches total computerised business from accounts to inventory & ordering on a industry standard system.

ATCs (Authorised training Centres) *Bombay* - Softline Infotech, Ph. 3092063. Maratha Mandir Computer Academy, Ph. 3077330. Compuland, Ph. 7682166. ***Bangalore*** - Complete Solutions, Ph. 6676177. ***Anand*** - Informatic, Ph. 23164. Delta Computer Consultant, ***Vidyanagar*** - Micky Micro Systems, Ph. 34184. ***Halol*** - Samanvay Computer, Ph. 22705. ***Nadiad*** - Ganesh Computer Service, Ph. 25260. Prerna Computer Service, Ph. 24606. ***Goa*** - Dbyte Computers, Ph. 314334. ***Rajkot*** - Apex Computers, Ph. 51260.

Dealership enquiry welcome from those with software support expertise. Preferable : Software Developers. Unheard dealer margins.

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

microware CD-ROM

Our Catalogue on-Disk is also available on PCQuest - CD-ROM (Winter 95 Edition)

OVER 300 CD-ROM TITLES

For DOS, WINDOWS, UNIX, OS/2 and MACINTOSH

Simtel (2 CD Set)

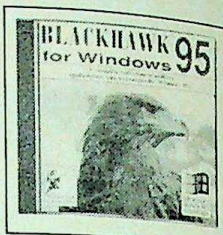
Direct from Internet, over 1200 Mb (10,000 files) of MSDOS Shareware programs.

Rs. 1,650/-

CICA (2 CD Set)

The ultimate collection of Shareware for Windows! 3,062 Programs (1,223 Mb) for Microsoft Windows. Utilities, Games, Icons, Programming Tools.

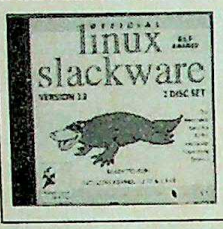
Rs. 1,125/-



Black Hawk for W...

A complete ... utilities, applic... accessories for ... Over 200 ... shareware for ...

Rs. 1,...



Linux 3.0 (2 CD Set)

Slackware Linux is the Internet's favourite 32 bit Unix clone. Linux is compatible with most Intel PC hardware from 386 to Pentium.

Rs. 1,575/-

Business Library

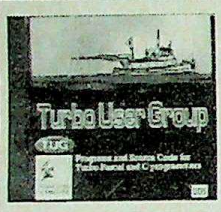
Hundreds of Business specific programs to help any business. Includes reference book describing all the programs. For DOS

Rs. 2,000/-

101 Only The Be... Games #4

Enjoy a collection ... 100 latest and ... shareware games ... able demos.

Rs. 1,...

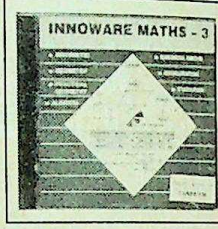


Turbo User Group

A collection of source code, utilities and programs for Borland compilers including Turbo Pascal, C and C++ for Dos and Windows

Rs. 2,250/-

Ask for your copy of our CD-ROM catalogue on disk. Our CD-ROM Catalogue-on-Disk software gives you complete information including features, system requirements of all the CD-ROM titles that we stock. You also get 10 True Type Fonts and 100 B&W Cliparts Free! The Catalogue is available on 1.44 Mb Floppy Disk and is priced at Rs. 100/- The Catalogue amount is adjustable against your first order of any CD-ROM Title



Innoware Maths ...

A convenient ... Maths tutorials ... students. Also ... over 20 other ... ferent subjects ... to class X. For ...

Rs. 1,...

CAD TOOLS

A large collection of tools for Autocad with several optional CAD programs. Hundreds of Sample Drawings, Architectural, Electronic, Mechanical libraries and much more!

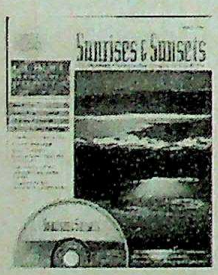
Rs. 750/-

Thinking Things!

Imaginative Tools ... to Strengthen ... ing! Develops ... Thinking Skills for ... 12!

Rs. 1,...

Photo CDs, Image Libraries For PC & MAC



A large collection of royalty free colour corrected photographs in Kodak Photo CD format from Corel - makers of Corel Draw! Each CD has 100 stunning photographs. The collection covers a vast category of topics. We also stock royalty free photograph CD-ROMs in Photo CD and Tiff format from other vendors.

Royalty free Photo CDs, Image Libraries from Corel, Walnut Creek, PHT, Tech Express, PS Multimedia and other vendors

Call for pricing

3500 Colour Clipart Volume #1

An enourmous collection of high quality detailed images in full colour. Over 40 categories. For Windows and Mac. Also available Vol #2

Rs. 1,450/-

Dr. Music Lab

Hundreds of ... sample music ... ROL, VOC, MOD ... formats. Also ... converters, player ... tors.

Rs. ...

Dr. Fonts for Windows

Over 2,000 True Type Fonts for Windows. Includes screen files which allow you to view the fonts before installing!

Rs. 400/-

2000 Fantastic ...

2000 Fonts in ... Postscript Type ... Easy to install ... use. For Windows ... Windows 3.1x

Rs. ...

Over 300 titles on General / Shareware, Operating Systems, Programming Tools, Utilities, Educ... Internet, BBS, Astrology, Health, Fitness, CAD, Desktop Publishing, Cliparts, Fonts, Animation, G... Video, MPEG II Movies, Video CDs, Photo CDs, Image Libraries, Games, Music, Sound and many more

Microware Computer Services

1, Paras, Near Dr. Baliga Nursing Home, S. V. Road, Goregaon (West), Bombay 400 062 Tel : 872 74 46, 872 97 25, Fax : 872 74 46

Microware CD-ROM collection is also available at :

RAINBOW, 41, Crescent Mansion, Opposite Gamdevi Police Station, Nana Chowk, Bombay 400 007. Tel : 389 40 50, 389 40 51 Fax ...

DEALERSHIP ENQUIRIES SOLICITED

For Outstation Orders, 100% advance has to be remitted by Demand Draft in favour of Microware Computer Services payable at Bombay. Outstation ... shipped by courier. Please add Rs. 100/- for packaging and courier charges. When ordering our Catalogue, please add Rs. 25/ for shipping and packa... Microware is the authorised distributor of Walnut Creek CDROM (USA), Imagine Pictures (USA), Tech Express Inc. (USA), PS Multimedia (USA) and Acc... Inc. (USA). We are not responsible for any typographical errors. Prices subject to change without notice.

CC-0. Vasishtha Tripathi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Power Mac 8200/120/16 MB/2000 MB HDD	240,000	E031318
Workgroup Server 8150/16 MB/1000 MB/CD-ROM	299,100	E031322
CHAMPION		
Pentium/120/8MB RAM/PCI VGA with 1MB	73,300	E03762
Pentium/100/8MB RAM/PCI VGA with 1MB	69,500	E03763
Pentium/90/8 MB RAM/PCI VGA with 1MB	66,700	E03764
Pentium/60/8 MB RAM/PCI VGA with 1MB	48,200	E03765
486 DX2/66/8 MB RAM/VGA with 256 kB	44,600	E03767
COMPAQ		
Presario 944/486DX4-90/8 MB/535 MB HDD	140,700	E031413
Presario 962/Pentium-60/8 MB/535 MB HDD	174,400	E031414
Presario 972/Pentium-75/8 MB/725 MB HDD	159,400	E031415
Presario 510/486SX-33/4 MB/270 MB HDD	95,000	E031416
Presario 520/486SX2-66/4 MB/420 MB HDD	108,800	E031417
Presario 524/486SX2-66/4 MB/420 MB HDD	122,000	E031418
Presario 742/486DX4-90/8 MB/420 MB HDD	153,300	E031419
CL FRONTLINE (BEANSTALK)		
PC 4100/486SX2/50/m	48,707	E03750
PC 4150/486SX2/50/c/BBS for 6 months/ Red Armour	68,847	E03751
PC 4300/486DX2/66/c/Fastracc/MS Works/ Red armour/NIIT Training	78,917	E03752
PC 4400/486DX2/66/c/Fastracc/MSWorks/ pack of 10CDs/Bitfax & Bitcom for Win/ RedArmour/NIIT Training/BBS subscription for 6 months	97,997	E03753
PC 4600/486DX2/66/c/Fastracc/Ms Works/ pack of 20CDs/NIIT Training/BBS for 6 months/Bitcomfor win/Bitfax for win	108,597	E03754
HEWLETT-PACKARD		
(575/Pentium-75/8 MB/540 MB HDD)	100,085	E031920
(575/Pentium-75/8 MB/840 MB HDD)	113,519	E031921
(590/Pentium-90/8 MB/840 MB HDD)	136,113	E031923
4/66/486DX2-66/8 MB/840 MB HDD)	90,925	E031922
PC 100/486DX4/100MHz/4 MB RAM/ 340 MB HDD	88,000	E03768
PC 300/Pentium/100 MHZ/16MB RAM/ 850 MB HDD	165,000	E03769

Note: Includes 1.44 MB HDD, 101 keyboard, 400 dpi mouse, SVGA mono monitor, MS DOS 6.22, Windows 3.11.

Note: Compaq config: 1.44 MB FDD, CD-ROM drive, SoundBlaster card, 2 speakers, 101 keyboard, SVGA color monitor, mouse, MS-DOS 6.2, Win 3.1, WORKS, MS Works, MSEncarta, and internal fax-modem

Note: c-SVGA color; m-Mono VGA. System config.: 270 MB HDD except 4600, 4 MB RAM (4100, 4150, 4300), 8MB RAM (4400 & 4600) 1.44 MB FDD, 101 keyboard, MS-Mouse , DOS 6.22, WFW 3.11, Fastracc, MS Works, Red Armour.

Note: All HP machines ship with MS-DOS 6.22, Win For Workgroups 3.11 and mouse.

Note: PC100 DOS/Win preloaded; PC300 DOS/Win, OS/2 Warp, Productivity/ Net Mgmt Tools

Product	Price	RQS No
MODI OLIVETTI		
PCS30SX/386SX-40/2 MB/510 MB HDD	36,300	E031932
PCS40/486DX2-80/4 MB/540 MB HDD	49,500	E031933
PCS50/Pentium-75/8 MB/540 MB HDD	92,400	E031934
SCT HOME		
SCT 10H/486DX2/4 MB RAM/735 HDD/ VGA mono	46,900	E03755
SCT 20H/Pentium/60/8MB RAM/735 MB HDD/ SVGA mono	59,900	E03756
SCT 30H/Pentium/75/8 MB RAM/735MB HDD/ SVGA mono/Set of CD titles	79,900	E03757
SCT 40H/Pentium/100/8 MB/1.08GB HDD/ SVGA mono/ set of CD titles	98,900	E03758
SCT MULTIMEDIA		
SCT 100M/486 DX2/8 MB RAM/1.08 GB HDD/ 14" SVGA color/DOS 6.22/Win 3.11/ Fax/modem card/12 CD titles	84,500	E03759
SCT 200M/Pentium/75/8 MB RAM/1.08 GB HDD/ 14" SVGA color/Dos 6.22/Win 3.11/fax/ modem card/24 CD titles	99,500	E03760
SCT 400M/Pentium/100/16MB RAM/2 GB HDD/ 15" VGA/24 CD titles	138,500	E03761
TULIP		
Tulip Vision Line/486DX2/66/8MB/540MB	87,000	E03774
Tulip Vision Line/486DX4/100/8MB/540MB	90,000	E03775
Tulip workstation/486DX@/66/8MB RAM/ No hard disk	78,000	E03776
Tulip Vision Line/WS/Pentium/75/8MB/ 540MB HDD/Mouse TulipPS/2	110,000	E03777

Note: Includes 1.44 MB FDD, 101 keyboard, MS mouse,

NOTEBOOKS

APPLE		
Mac PowerBook 520/8MB/240MB HDD/ Claris Organizer	139,400	E031277
Mac PowerBook 520c/8MB/240MB HDD/ Claris Organizer	181,200	E031278
Mac PowerBook 540c/8MB/320MB HDD/ Claris Organizer	285,000	E031279
Mac PowerBook 150/4MB/250MB HDD/ Claris Organizer	83,600	E031280
PowerBook Duo 280c/12/320	230,000	E031283
CHAMPION		
486 DX2/66/4 MB RAM/200 MB HDD/SVGA mono	65,000	E03
HEWLETT-PACKARD		
OmniBook 600/486DX2-50/4 MB/170 MB HDD	138,190	E031924
OmniBook 600/486DX2-50/8 MB/ 260 MB HDD	185,755	E031927
OmniBook 4000/486DX4-100/8 MB/ 340 MB HDD	176,350	E031928
OmniBook 4000/486DX4-100/8 MB/ 810 MB HDD	259,400	E031929

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
OmniBook 5000/Pentium-90/8 MB/ 1200 MB HDD	434,720	E031930
OmniBook 5000/Pentium-90/32 MB/ 1200 MB HDD	530,980	E031931

Note: All HP notebooks ship with MS-DOS 6.22 and Win for Workgroups 3.11.

INNOVACE

HB 300/486DX4/100/4 MB/540MB HDD/ 1.44 MB FDD	115,000	E03882
HB 600/Pentium/100/8MB/540 MB HDD/ 1.44 MB FDD	175,000	E03883
HB 370/486DX4/100/4MB/540MB HDD/ CD-ROM	155,000	E03884
HB 770/Pentium/100/8MB RAM/ 540 MB HDD/CD-ROM	235,000	E03885

Note: All InnovACE notebooks come with a built-in pointing device joystick, 2 Type II/I Type III PCMCIA slots, inbuilt sound cards, speakers, microphone, 1 MB VRAM.

MAGICBOOK

MB 5 Plus/486DX2/66/4MB RAM/ 1.44 MB FDD/540 MB HDD/84 keys	1,20,000	E03770
MB 7/Pentium/90/540 MB HDD/1.44 MB FDD/ 84 keys	2,10,000	E03771
MB 8/486 DX/4 MB RAM/1.44 MB FDD/ 84 keys	1,85,000	E03772
MB 8 Plus/Pentium/90/8 MB RAM/540 MB HDD/ 1.44 MB FDD/84 keys	2,80,000	E03773

MODI OLIVETTI

Echos48CP/486DX4-100/8MB/540/1.44/Dos/Win	263,867	E03778

OCTIVA

Octiva/486DX4/100/340 MB HDD/4 MB RAM	115,000	E03886
Octiva/486DX4/100/510MB HDD/8MB RAM	129,000	E03887
Octiva/Pentium/100/510MB HDD/8MB RAM	169,000	E03888
Octiva/Pentium/100/510MB HDD/8MB RAM	199,000	E03889

All Octiva Notebooks are avialable with Touch Pad, 16-bit soundcard, 1.44 MB FDD

Prices Supplied By:

- **Apple:** Apple Computers International, Suite 101, The Oberoi, Dr Zakir Hussain Marg, New Delhi 110003. Tel: 11-4363030. Fax: 11-4362939
- **AT&T:** Crompton Greaves, 8-E Rani Jhansi Road, Jhandewala Extension, New Delhi 110055. Tel: 11-3558237, 3558238. Fax: 11-7533038
- **Canon Printers:** Network, D-10, Commercial Center, Poorvi Marg, Vasant Vihar, New Delhi 110057. Tel: 11-6886371, 6885472 Fax: 11-6877823
- **Champion Computers:** 306, Eros Apartments, 56, Nehru Place, New Delhi 110019. Tel: 11-6426280, 6214751, 6404203 Fax: 11-6479669
- **Compaq:** Tangerine, 307 Ansal Chambers, Bhikaji Cama Place, New Delhi. 110065.
- **Genius & Primax:** Vertex Infotech, D6, Qutab Hotel, Qu... Institutional Area,New Delhi 110016 Tel: 11-660060, ... Fax: 11-6116769, 6468797
- **Goldstar:** Aditya Promoters, 4428, Ganesh Bazaar, Cloth M... New Delhi 110006 Tel: 11-2511850, 2514079 **Fax:** 11-...
- **HCL Frontline,** M-41, Greater Kailash-II Market, ... Delhi 110048 Tel: 11-6423503, 6424779
- **Hewlett-Packard,** 24 Paharpur Business Centre, Nehru P... New Delhi-19. Tel: 11-6472311, 6472328. Fax: 11-64...
- **InnovACE:** Samtech Computers, 10A/27, East Patel N... New Delhi 110008 Tel: 11-5734293, 5734226 Fax: 11-57...
- **Logitech/APC/Ritika:** Vintron, F-34 Okhla Industrial Area, P... 1, New Delhi 110020. Tel: 11-6814520, 6813680, 68... Fax: 011-6810460
- **APC UPSs:** Onward Technologies, Krishna House, 2nd F... Saki Vihar Road, Saki Naka, Bombay 400072. Tel: 22-...
- **Magicbook:** Akash Electronics & Software, 14 Chirag E... New Delhi 110048. Tel: 11-6416003, 6416005, 64... 6224601. Fax: 011-6467690.
- **Modi Olivetti,** Punj Lloyd House, 17-18 Nehru Place, New ... 110019. Tel: 11-6427811.
- **Motorola** Information Systems, 108, Gavipuram Guttahl... Bull Temple Road, Bangalore 560019. Tel: 80-6612973, 66... Fax: 80-6612977
- **Multitech Computers,** C-71, Anand Niketan, New Delhi ... Tel: 11-6886948, 6872396
- **Nomus Comm Systems,** S-19, National Plaza, RC Dut... Baroda 390005. Tel: 265-327734, 327738. Fax: 265-...
- **Onetics:** Total Networking Solutions, Suite # 180-184, ... Claridges Hotel, 12, Aurangzeb Road, New Delhi ... Tel: 11-3010211, 3010604
- **SCT Computers,** H-30, South Extn I, New Delhi ... Tel: 11-4635733 Fax: 11-4632517
- **TeamEngineers,** 2-2-647/227/C, CE Colony, New Nalla... Hyderabad 500013. Tel: 40-7614412. Fax: 40-760172...
- **TISL,** TISL Tower, Golden Enclave, Airport Road, Ban... 560017. Tel: 80-5262355, 5267117
- **Tulip Computers,** V-13, Green Park Extn, New Delhi ... Tel: 11-6964753
- **TVS Electronics,** 10-B Phase I, Peenya Industrial Area, Ban... 560058. Tel: 80-8395000. Fax: 80-8396334
- **Aegis:** TVSE, Bangalore
- **US Robotics:** Microsense Computers, #1East Of Kailash ... Delhi 110065. Tel: 11-6410134, 6470619
- **Wipro & Epson:** Wipro Infotech, 88 MG Road, Bangalore ... Tel: 80-211141. Fax: 80-2270378
- **Epson:** Reddington, SPL Gundy House, 95 Mount Road, ... 600032. Tel: 44-2353313 Fax: 44-2352790
- **ZyXel:** XON Communications, 19 Casa Major Road, ... 600008. Tel: 44-8260124, 82582336. Fax: 44-8263...

◆ **Attention:** While all prices were current at the time of ... press, readers are advised to reconfirm them with the ... before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Your multimedia educational CD school is here!

Seaware Multimedia Software available on floppy and CD.

Dealership Enquiries Solicited

- Nursery Park Series (for kids 3-5 years)
- Primary Park Series (for kids 5-8 years)
- Maths Series (for classes 6 to 10th)
- Science Series(Phy, Chem, Bio for classes 6-8th)
- General Series(Evaluators and Computer Language quiz)
- English Series (Grammar and parts of speech for ages 5 to 15)
- Competitive Exams for admissions (GRE, GMAT,IIT, Medical)
- Competitive Exams for jobs (IAS, Bank PO etc.)
- Management Series (Marketing, Personnel, Finance etc)
- Puzzle Series (Games & Puzzles for kids 5 to 15 years)

Write for a free catalogue to:

INNOVATION SOFTWARE EXPORTS LIMITED

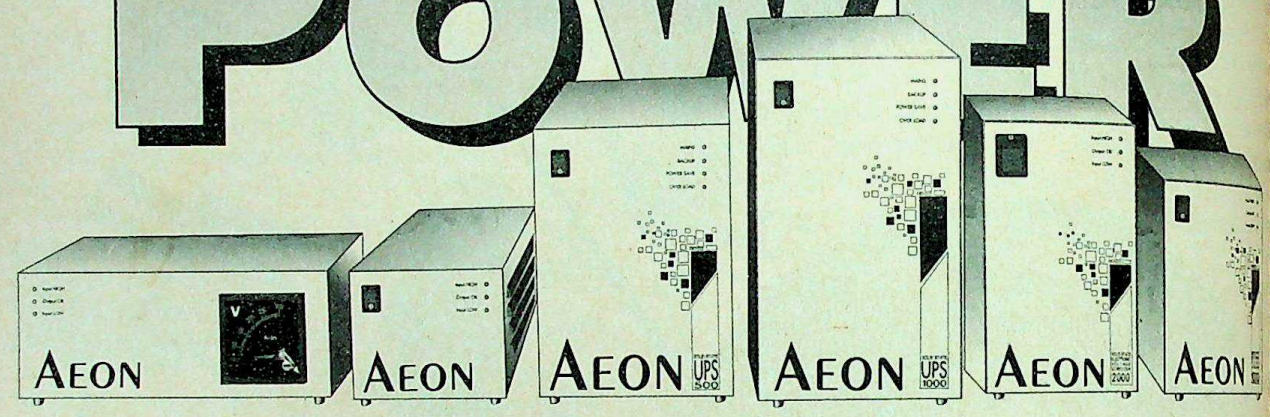
II Floor, Rathna Building , 581, Mount Road, Madras - 600 006. INDIA,
Tel: 044-4349443, 4349924 Fax: 044-4349505, 8252828

Available at: **Bangalore:** Saitek, Tel:2239467; **Bombay:** Lan Multimedia, Tel:8366914; Microware, Tel:8727446; **Calcutta:** SA Informatics, Tel: 266987; **Chandigarh:** Vision Asia Tel:692898; **New Delhi:** BPB Publications, Tel: 3325760; Comnet, Tel: 6912381; **Nagpur:** Artefact, Tel:525219.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AEON - The SILENT REVOLUTION in POWER



CONDITIONING TECHNOLOGY

AEON **UPS** has the advanced Static Changeover technology, beating all the relay based UPS effortlessly in transfer speed. Its fully Solid State AVR takes care of mains voltage variation of an unparalleled 150 to 300V a/c. With a high speed spike suppresser internally built, and capability to withstand input surge of up to 350V, AEON is prepared to take on the worst! Its MOSFET inverter has an intelligent Automatic Idle Run Management incorporated which cuts down unnecessary battery charge wastage when computers are not in use.

AEON **UPS** comes with internal maintenance free batteries for 30, 60 or 120 minutes backup and external battery models for more backup.

AEON **Electronic Voltage Stabilizer** is a fully Solid State Voltage stabilizer w takes care of mains variation of 150 to 300V. Incorporating the On Lin Changing technology, with extremely fast response time, it is suitable ev areas of violent voltage fluctuation. With automatic high or low voltage c high speed spike suppresser, delayed turn on, and generator compatibility, **stabilizer** provides maximumprotection for all input conditions.

Quantum

No.56, Main Channel Road, 1st Floor, Ulsoor, Bangalore - 560 008. Tel : 55

Available at :

● **BANGALORE** : COMPUTER FACTORY (I) PVT LTD Ph. : 5566485, HARDSOFT SOLUTIONS Ph. : 648752, CADDONS COMPUTER SERVICES Ph. : 6691170, RCS TECHNO Ph. : 5589468, BUSINESS LINK Ph. : 2242033, CONNOISEUR Ph. : 5543668 ● **HUBLI** : NAVNEET SYSTEMS Ph. : 66405 ● **MANGALORE** : PALS MICROSYSTEMS LTD Ph. ● **GUNTUR** : FRONTLINE COMPUTERS Ph. : 232370 ● **VISAKAPATNAM** : STARGATE TECHNOLOGIES Ph. : 555920, GAYATRI COMPUTERS & COMMUNICATION Ph. : 546804 ● **KAKINADA** : BHAVA COMPUTERS Ph. : 79473, S S COMPUTERS Ph. : 72519 ● **VIJAYAWADA** : MIST COMPUTERS SERVICES Ph. : 477620, COSTAL COM Ph. : 476157 ● **HYDERABAD** : MC COY ASSOCIATES Ph. : 848052, PRIME COMPUTERS Ph. : 840583, EAST COAST COMPUTERS Ph. : 313208, DAISY SYSTEMS PVT LTD Ph. SPIK & SPAN SYSTEMS Ph. : 235845, KRISHNA SYSTEMS PVT LTD Ph. : 274006, POOJA MARKETING SERVICES Ph. : 849034, BRIGHT COMPUTERS SERVICES Ph. : 842870, V-TECH SOFTWARE SYSTEMS Ph. : 563415 ● **MADRAS** : DIGITAL TECHNOLOGIES Ph. : 8279199, COMPUTER FACTORY (I) PVT. LTD Ph. : 8524146, INIT SYSTEMS LTD Ph. : 8276070, SESHI SOFTEC SERVICES Ph. : 8251257, DIGITAL CHANNEL PH. 8275369, BIT BYTES PH. : 455599, VIDHYA ENTERPRISES Ph. : 4942066 ● **POND** M D TOLIA COMPUTERS Ph. : 30266 ● **COIMBATORE** : LOTUS DIGITECK SYSTEMS Ph. : 232871 ● **ERODE** : BCB HARDWARE Ph. : 213435 ● **SALEM** : HI-Q SYSTEMS Ph. : 364969 ● **GOA** : ALLIED COMPUTER SYSTEMS Ph. : 2235783 ● **BOMBAY** : FALCON COMMUNICATIONS Ph. : 5130389 ● **COCHIN** : MUKUND MARKETING Ph. : 311684, NATIONAL COM ● **CANNANORE** : PRIMETECK SERVICES Ph. : 69781 ● **CALICUT** : DOT COMPUTERS Ph. : 365643 ● **AHMEDABAD** : MOTHER PHONETIKS Ph. ● **RAJAHMUNDRY** : MICROMATIKS Ph. : 71702

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Gamemaker Atari Bows Down

The legendary Silicon Valley video gamemaker, Atari Corp, is being acquired by JTS Corp, a company which manufactures hard-disk drives in Tamil Nadu. The two-year-old JTS has 160 employees in San Jose and 0 workers at its disk-drive production plant in Madras,

tari has suffered from years of heavy losses, and the ar has never become a credible force in the $6 billion- ar video-game industry. Only 150,000 Jaguar units e been sold since the system's launch two years ago; , in comparison, has sold more than 500,000 of its ation units since their introduction in September.

e combined company will take the JTS Corp name ugh Atari will continue as a subsidiary manufacturing aguar video-game system and developing personal uter games.

tari was founded in 1972 by Nolan Bushnell, who ted the first video game—"Pong." The company grew to e one of the biggest in Silicon Valley and was sold to mpany that is now Time Warner Inc before nearly sing in the early 1980s when consumers suddenly bored with video games.

TS is trying to convince notebook vendors to switch to a e of hard disk. Laptop computers today use 2.5" hard s, which are more expensive to manufacture than the 3.5' drives that are common in desktop PCs. JTS is g a compromise: a thin 3-inch drive that shares the st manufacturing methods of 3.5-inch drives, while g up no more space than thick 2.5-inch drives.

e company's clients include Compaq which is expected p laptops with the JTS drives by June. Compaq has also d fund development work at JTS and has convinced er disk-drive manufacturer, Western Digital of Irvine, t making a small number of 3-inch drives.

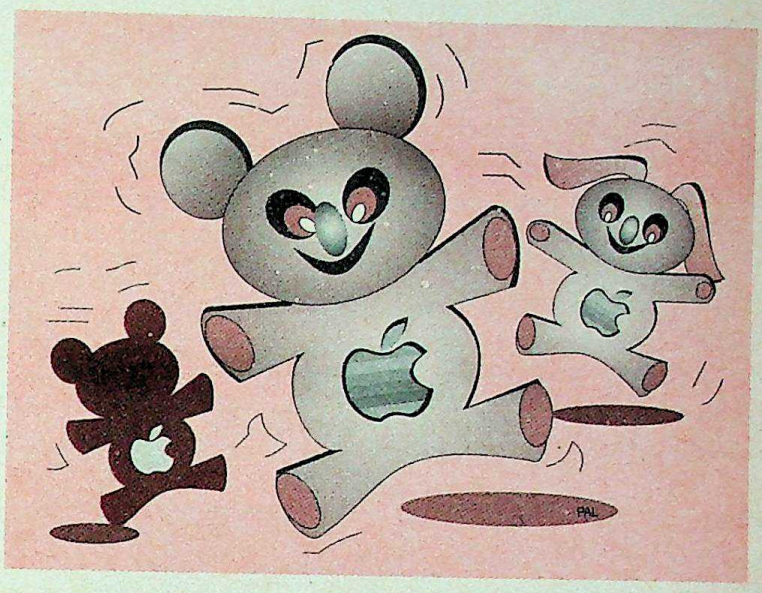
pple Licenses Its Name r Toy Line

llowing the example set last month by Compaq and toy maker Fisher-Price, Apple Computer announced it is licensing its name for children's toys.

e new "Apple for Kids" line of "electronic learning aids" designed, produced and marketed by Toy Biz of New The first toys will reach stores early next year, selling n $100.

e will have no role in creating the toys other than veto to make sure they meet the Cupertino company's standards and won't invest any money. But Apple will alties on every toy sold.

chnology companies typically focus on building bigger, products, rather than thinking about such issues as



customer attitudes and brand-name identity. Apple has one of the most well-established and trusted brand names in the computer business. But Apple doesn't have the in-house knowledge or financial resources to exploit every possible opportunity for the use of that name.

The deal with Toy Biz marks the first time Apple's name will be featured prominently on an electronic product that contains no Apple technology.

Toy Biz is best known for a line of action figures built under a license with Marvel Entertainment, creator of the "Spiderman" comic books, and infant toys made under license from the Gerber baby-food company.

"We recognize the Apple name means a few things to the consumer, such as user-friendly and educational," said Andy Gatto, executive vice president of marketing for Toy Biz.

In January, Compaq and toy maker Fisher-Price unveiled a line of computer hardware and software for children called "Wonder Tools." The line includes the "Wonder Tools Cruiser," a $150 automobile dashboard o complete with steering wheel, throttle, horn and radio o that plugs into a Windows computer, allowing young children to control specially designed games by using the dashboard controls.. The two companies will also ship a separate series of CD-ROM games for children that will work on any computer, without requiring the "Wonder Tools Cruiser" or "Keyboard."

Finally, Motorola Macs

Rather late in the day, Apple has agreed to license the Macintosh operating system to Motorola, which will be able to sell its own sub-licenses to computer makers such as Compaq, H-P, and others who may wish to make Mac clones.

The decision is the first major move by Gilbert Amelio, Apple's new chairman and chief executive, to reshape the company. The move points to a new Apple strategy of

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

confronting Microsoft and Intel in parts of the world where the personal computer market is not yet well developed, such as most of the Far East.

The Sun Hasn't Set On Apple

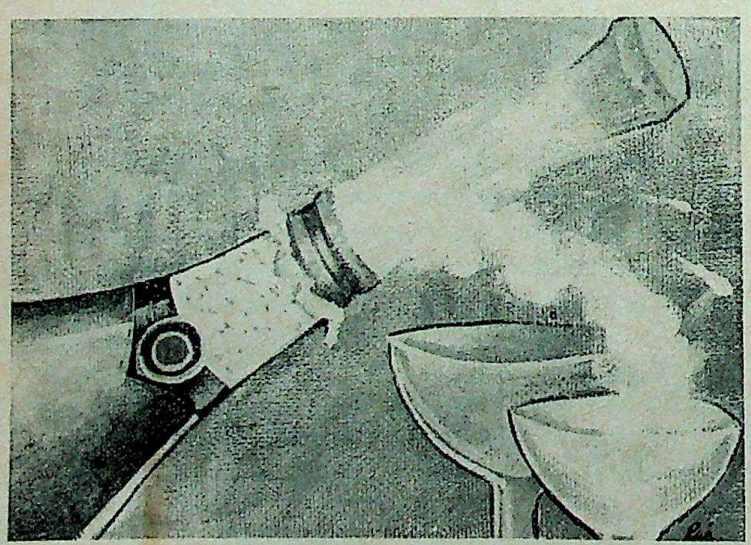
Sun and Apple are once again talking. But unlike the earlier subject of a take-over, the discussions appear to be limited to Sun taking an interest in Apple.

Sun may still be interested in buying a piece of Apple, such as the division that produces the Newton hand-held Personal Digital Assistant, with the intention of adding its Java Net software to Newton to turn the PDA into a powerful wireless Net tool.

Compaq And Netscape Web Deal

Compaq announced it has entered into a long-term strategic partnership with Netscape Communications, the leading supplier of Net browser software.

Under the agreement, both companies will optimize their products to work with those of the other company. Compaq said it will incorporate Net server capability into every one of its servers. The company plans to include Microsoft Corp's Net Information Server, Netscape's Commerce Server and Novell's NetWare Web Server in each server unit.



In addition, Compaq will include support for Netscape Commerce Server in Compaq SmartStart release 2.50A, the integration tool that optimizes its computer products to run with specific operating system software and simplifies the installation of server hardware.

The two companies said the partnership also includes collaborative development and marketing activities such as product integration, performance optimization, collaboration on benchmarking and programs focused on sales development.

Web Cookies Aren't So Swe

The next time you surf the Web and start loading information from a hot site, you may remember that you may get more than you bar for. Unbeknownst to the average Website visitor, th may be looking over your shoulder, taking careful about what you are looking for on the Website, how lo spent in each section, and what you downloaded. Th then places that information on your disk drive for re during your next visit.

This digital "escort" service is performed automatic the Web host by a little-known feature of Netscape's Nav and other browser programs, including Microsoft's allow Web sites to store any information about your vis they want to by way of a file on your own hard drive. Th can measure up to 1.2 megabytes.

The feature is called "cookies," Netscape said cookies many legitimate uses. But the company conceded their does evoke questions of privacy and other issues. Net officials said recent concerns have prompted them to con changing the way the feature works. "This is a very legi issue that people ought to know about," said Len Feld a Netscape Communications product manager.

Web sites that employ the cookie feature store inform about your visit in a "cookies.txt" file on Windows ma and "MagicCookie" on the Macintosh. The information us resides in the same directory as the Navigator progra

Once the information is stored, the site will know you been there before; it may also have an indication of wha interests are. Cookies, however, will not tell a Web sit name or address—only that you, or someone using computer, had visited the site before, along with wha other information it wishes.

That information gets stored, of course about visitors voluntarily "register' at a site, often giving their nam address. From then on, all of your comings and goings be recorded and linked to you, specifically – even i subsequent visit you do not sign in using your name information, in turn, could be sold to others, su consumer marketing organizations.

Cookies that are built into browsers cannot be turn While deleting the cookies file on your computer will any information that's been stored there, if in you session with the browser a site wants to store informa will simply create a new cookies file.

Oracle Chief Shows Net

Less than six months after first mentioning his co was developing a $500 network computer, president Larry Ellison this week showed off prototypes of the "Internet appliance".

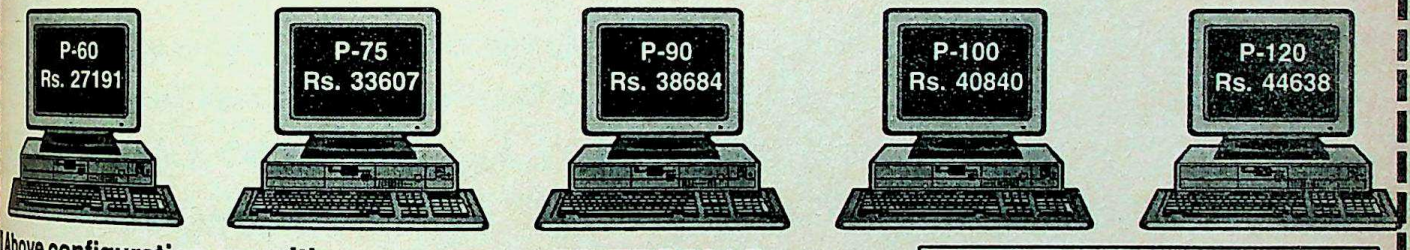
Oracle's stripped-down network terminal is inte be connected with the Internet and uses a television display. Yet in the demonstration, things were rig machine Ellison used was hooked up by high-speed a a much more powerful computer offstage, instead

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MINIMUM PRICE

LOOK OUT FOR THE REAL SMILE



All Above configuration are with

- 256 KB cache
- 8 MB Ram
- True PCI VGA card with 1 MB
- PCI Enhanced IDE Controller
- 2 High Speed Serial Port with UART-16550
- High Speed Parallel Port
- 1.44 MB FDD 3.5"
- Fully Imported Cabinet
- SVGA Mono Monitor

yes It runs with NetWare

MICROSOFT WINDOWS 95 COMPATABLE

Terms & Conditions

- Excise Duty 15% Extra
- LST 6%/CST 10% or 4% against 'C' Form
- 1 Year warranty covering all parts (Carry In).
- Prices are ex-works Delhi. Freight Octroi extra.
- Prices are subject to change without notice.

OPTIONAL

Hard Disk Drive	
630 MB IDE	10194.
850 MB IDE	11025.
1 GB IDE	12930.
ADD On CARDS	
16-bit Ethernet BNC/UTP	1395.
16-Bit Ethernet Combo	1654.
MONITOR	
SVGA Colour	6945.
in lieu of Mono	
FLOPPY DISK DRIVE	
1.2 MB	2177.

MEMORY	
for each 4 MB	4100.
CD ROM Drive	
Double Speed	4675.
Quad Speed	8775.
MULTIMEDIA KIT	
Multimedia Upgrade Kit	10500.
SOFTWARE	
DOS+Windows	3500.
MOUSE	
Logitech Dexxa	400
Logitech First	800
TERMS & CONDITIONS:	
Sales Tax :	Inclusive
Warranty :	One year.

intel inside pentium Genuine Intel Dealer

Champion

Manufactured by :

CHAMPION COMPUTERS PVT LTD

306, Eros Apartments, 56 Nehru Place, NEW DELHI-110019

Ph: 6426280, 6214751, 6404203 ❑ Fax: 011-6479669

All logos and trade marks used are of respective owners.

DEALER'S :
AHMEDABAD : Microlan Systems, Ph. 2812311, 2812479 **BANGALORE :** Saitek Computers, Ph. 2239467, 2223092 **BHAV NAGAR** Electronech Comptuers, Ph. 21451 **BARODA:** Electromech Corporation, Ph. 300469 **GHAZIABAD :** Computron, Ph. 753960, 724599 **GOPAL :** Pioneer Computer Centre, Ph. 224580, 222649 **JABALPUR :** Satna Computer & Peripherals, Ph. 410038 **KOTA :** Jainir Software & Services, Ph. 421364 **LUDHIANA :** S.S. Hitech, Ph. 456830 **PALAMPUR :** Computer Media Services, Ph. 30173, 30417 **RAIPUR :** Raipur Computer Services, Ph. 427744,427745 (2) 2nd Channel, Ph. 28887, 429551 **VARANASI :** Integrated Systems & Services, Ph. 311425 (2) Micro Systems Solution, Ph. 350920

Dealers Enquiry Solicited

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Attention decision makers!

Still want to be steps ahead. Welcome to the Victory Multimedia technology zone. We are offering incredibly Fast **CD-ROM Drives**, 3D-STEREO quality **SOUND CARDS**, high tech **VIDEO CARDS**, reliable **CD-ROM RECORDERS**, high - speed **Six Disc CD-ROM CHANGERS**, high quality **3-in-1 SCANNER / FAX / COPIER** ... for less than you ever thought possible. So with your dreams and our reliable, high - tech value priced Multimedia products success'll be yours.

AST COMPUTER
Authorised Dealer

For Further Details Contact

MEDIA TECHNOLOGIES INDIA LIMITED

H.O : 204, Bhandari House, 91 Nehru Place, New Delhi -110 019. Tel 646 8695, 6420117
Telefax : 642 7241, E-mail - D E L A AC4 7 @ G I A S D L 0 1.VS NL.NET.IN
B.O. : 24-A, Dadyseth House, 44, Cawasji Patel Street, Fort, Bombay - 400 001. Tel. 2853830

DEALERS:

Allahabad : LANSYS Computers (P) Ltd. Tel. 644330, 644473,642152, 640489. **Bangalore** : Premium Logic Systems Tel. 3339602. **Calcutta** : Unique Sales Agency, Tel. 275356. **Chandigarh** : Samson Software Technologies Tel. 690505. **Delhi** : Computer Zone Tel. 6227036, 6462068. **Gorakhpur** : Sam Computers Pvt. Ltd. Tel. 33553 **Jallandhar** : The Computer Concept, Tel. 221631. **Kanpur** : Multi Business Machines Tel. 290986, 293738, 35573 **Lucknow** : Taurus Technologies Tel. 53887. **Noida** : COMPUCOMM Services Tel. 5522357, 558402. **Patna** : Graphic Trades Tel. 651740. **Udaipur** : Vardhman Computers Tel. 414543. **Varanasi** : Jwala Distributors Tel. 356338, 35631

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ed to rely on the slow Internet.

...Ellison showed how the machine could send electronic ...l play video clips and display basic text information from ...World Wide Web page. Ellison predicted that network ...puters would outsell PCs by the end of the decade, even ...ight PC sales are expected to run at an annual clip of ...out 120 million units.

...Ellison would not say which companies will be producing ...device, expected to be in stores by September. But he did ...that the machine could be built from parts costing $295, ...ding a low-end ARM RISC microprocessor, 8 MB RAM, ...Ethernet card, a keyboard and a modem. However, many ...the computer industry wonder how useful most Internet ...ers would find such a system. For example, that bare-...s price would not include additional cache memory ...ed for faster Internet access and for temporary information ...ge, as the machines have no hard drives.

...sked if Ellison was worried about the Netscape threat, an ...e spokeswoman said Ellison wasn't because "he doesn't ...k they (Netscape) are going to be around in a year." ...ed why Ellison would say what he did, Netscape's VP ...cing Mike Homer said: "I don't know. I'll probably give ...a call and ask him."

...tel Chief Isn't Scared Of ...etPC

...ntel chief Andrew Grove said this week he does not think the forthcoming generation of $500 Internet appliance computing devices pose much a threat to ...'s dominating position in the computer chip market. In ... Grove believes the traditional PC's role will only grow in ...ng years as it additional features will turn PCs into ...ersal information centers for entertainment, visualization ... communications tool, and other apps.

...There have been recent predictions that $500 network ...puters could end up taking away marketshare from ...tional PCs. That could hurt Intel as the new machines ... low-cost RISC-based processors from companies such ...anced RISC Machines in the UK. Oracle, Sun ...systems, and Microsoft have announced plans for such ...ped down machines that focus on communicating over ...global Internet communications network.

...Grove argued, however, that what most people want is ...ng more complicated, not simpler. "People will want a ...hine that can run complex software applications from a ...hard disk drive. PCs of the future will bring us news that ...filtered through the traditional media, such as ...papers and TV. They will process three-dimensional ...es without time delays and allow us to interact with ...al scenery, as if exploring another world with somebody ...ng distance."

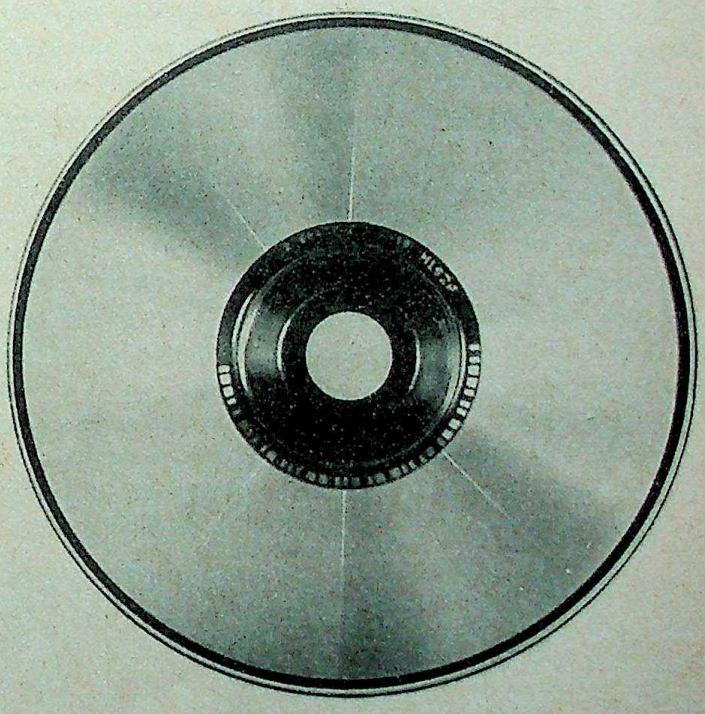
...that flies in the face of Internet Appliances which are ...ple that they would only be able to run the kind of ...cation that is stored on a computer network rather than ...machine's hard disk. "If you can't switch back and forth ...een these different kind of applications, you're limited," Grove said. With such limited features, he said, the cost of the $500 machine should be compared not to the $2,000 PC but rather to the telephone.

Grove also said that Intel will this year introduce a new Pentium that will include enhanced multimedia processing capabilities that are normally performed by other components in a PC. On these processors, Grove said, video will run 1.5 times faster than on current Pentium chips, and sound 2.5 times faster.

SVNS

Philips And Sony Promote Blue Book Format

Philips Electronics and Sony Corporation announced further steps in the promotion of the Enhanced Music CD (Blue Book) format, previously referred to as CD Plus. Final specifications of this format have been distributed to CD licensees and will be made available to other parties. In addition, both companies announced a new marketing name, "CD EXTRA", for further promoting the format. An accompanying new marketing logo for CD EXTRA will be designed and distributed to the industry upon request.



The CD EXTRA name and marketing logo is primarily for promotional use and for use on packaging. The new logo can be paired with the Enhanced Music CD system logo, which appears on the disc to clearly indicate compatibility with CD-Audio and CD-ROM specifications.

CD EXTRA discs can now more easily be distinguished by users from conventional CD-Audio and CD-ROM discs as well as from other proprietary disc formats already introduced in the market for similar multimedia PC applications. CD EXTRA discs combine normal CD-Audio tracks with CD-

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ROM data on one 12 cm Compact Disc. Information such as video clips, lyrics, photographs, animation and text can be contained in the CD-ROM area located in the outer perimeter of the disc. Users can playback the audio portion of CD EXTRA discs on conventional CD-Audio players and enjoy both the music and the CD-ROM data on multimedia personal computers equipped with CD-ROM drives. One minute on a music CD disc is equal to approximately 9MB in terms of data capacity. By using the remaining area of a music CD (the outside perimeter), CD EXTRA discs offer value-added features to music CDs.

In version 1.0 the description of the CD-ROM portion has been further refined to allow software developers to produce truly compatible products that can be played back on multimedia personal computers. A Japanese character set (the same as the one used for MD and DCC) has also been defined. The final specifications were established in consultation with the Recording Industry Association of America (RIAA), the Recording Industry Association of Japan (RIAJ), Microsoft Corporation and Apple Computer, Inc.

BW

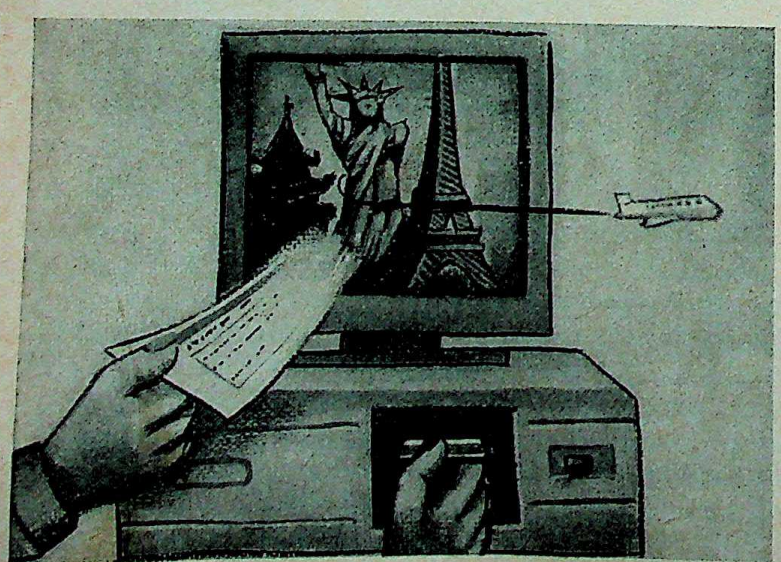
The Net As Travel Agent

And now for the consummate do-it-yourselver, there will be the Net travel agency where anyone will have access to the same flight schedules any travel agent is looking at on their computer display and be able to book a trip using a credit card.

That, anyway, is what a new Net service start-up is banking on, and this week it attracted one of the biggest names in the travel business to head the venture. John Williams, GM of the AmEx Consumer Travel Network, announced his move to Middlegate in New York.

The start-up is being funded by Intel and three big guns in the Valley's high-tech venture capital business, apart from media mogul Rupert Murdoch's News Corp.

Middlegate wants to allow individual travelers to take over their own travel reservations. "Customers are looking for greater control over the transactions themselves," Williams said. "They also want travel information at their fingertips."



Middlegate has also hired a veteran technologist, Miller, a former head of engineering for the consumer products division at Apple Computer, to finish development of the Middlegate system, which has the name Marilyn.

The Marilyn system was originally developed for networks based on the Telescript software from General Magic of Sunnyvale. Middlegate is now refining the system work with the WWW. In later stages, Marilyn may encompass wireless technologies, mapping data and information such as restaurant and city reviews to be able to provide customers with detailed recommendations and travel instructions. "It will be possible to present the customer with an itinerary down to a level of telling him how to find the parking garage on a business trip," Miller said.

The US travel business alone totals $100 billion, and there is little to prevent Middlegate from offering its services to Net users worldwide.

Microsoft Reorganizes Around The Net

Microsoft, facing major challenges for the first time in years, has announced a restructuring program aimed at strengthening its position in interactive computer markets such as the Internet, and its traditional OS business. A new Interactive Media Division will focus both on the growing content for Internet market and for the digital video disks (DVD) now on the horizon. The group will include the 850,000-subscriber MSN Online network, games, children's products and its information businesses.

Although DVDs are not expected to become available to consumers until this fall, and then only in audio and playback, they are expected to become the dominant computer and entertainment medium, replacing both computer hard disks, CD-ROMs, audio CDs, and VHS video cassettes.

A number of the company's competitors have said that the rise of the Internet was the principal threat to Microsoft because the network had the effect of leveling the playing field by permitting software developers to develop applications that are not dependent on Microsoft's Windows 95 operating system.

IBM Points All Hardware To Internet

IBM is changing its entire product line, from top to bottom, to make systems more useful for finding and providing data on public networks such as the Internet. IBM has also announced new software that will help corporate systems managers to keep track of computers through the Internet.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AutoDesk

The world's CAD standard

CAD is AutoCAD Rel 13

AutoCAD Release 13

AutoCAD Release 13 adds more features and power drafting and design capabilities than ever before. The interface takes full advantage of modern components and conventions to facilitate ease of use.

Whatever the challenge - from designing a complex machine part to a soaring skyscraper, AutoCAD provides all the tools you need to draw, edit, annotate, visualize and plot any and every detail of your design.

Sharing AutoCAD data across documents and projects and within your company is easy with Release 13. Drawing information is where it should be, shortening the project cycle. External database links using an SQL interface associate cartographic data stored in an external database with AutoCAD drawing entities.

AutoCAD provides a comprehensive set of tools for virtually every field, including architecture, engineering, construction, (AEC), facilities management, mechanical design and geographic information systems (GIS) mapping.

Let your imagination roam in 2D or 3D

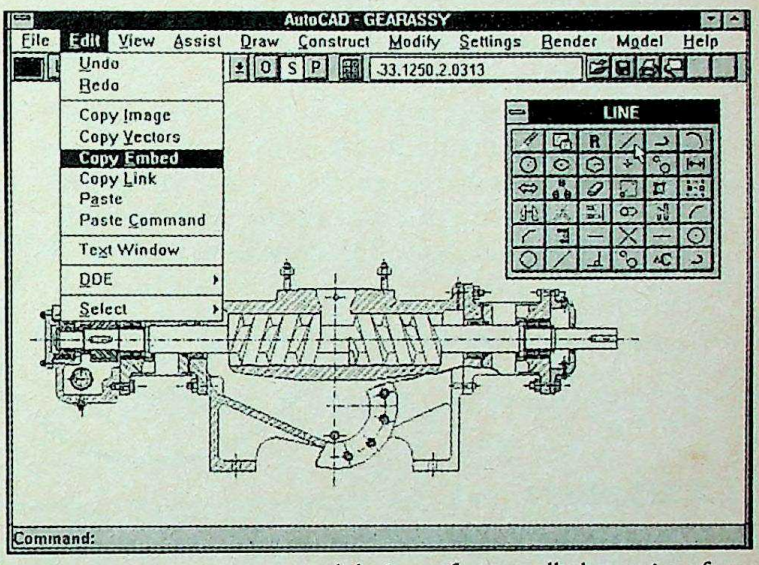
With the sophisticated rendering and visualization tools that come with AutoCAD, it's easy to conceptualize designs in 2D and 3D. Use the Region Modeler feature to extrude 2D drawings into solid 3D models. Then use the render tool to add illumination and apply reflective surface finishes that add realism to the final drawing-and impact to presentations.

Share your work with the world

It's easy to exchange AutoCAD drawings with clients and vendors using AutoCAD software's widely supported DXF™ format.

The Binary Advantage

We are an organisation which is over 10 years old. Amongst the top 100 IT companies in India, we have over 200 people working out of a network of 10 offices, including one in the US, and a 100% software EOU near Delhi, to execute large business application projects using RDBMS and GUI development tools. We have executed several large projects like East-West Airlines, Minda Industries Limited, ICI, UNICEF, Nirula's, CRY in the recent past.



Binary Semantics is the single largest source for ***Microsoft, Lotus, Borland, SCO, Autodesk, Novell, Oracle, Sybase*** and many more software packages. With our vast experience and technical expertise we offer integrated solutions based on these products. We have recently connected over 400 branches of Corporation Bank on e-mail. Similarily we have connected Sandoz, Boots and other large organisations. We also train the end users to effectively use these products.

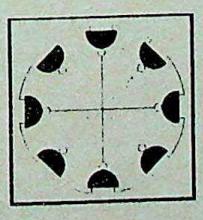
We are the largest provider of AutoDesk products in the country. Our CAD / CAM Division has strategic alliances for CADPipe, a plant design software for process industries from Orange systems, USA, electrical control panel design software called promise from ECT Inc., USA, and CrystalEyes from StereoGraphics, USA. We offer expertise with dedicated manpower for handholding and troubleshooting CAD / CAM software.

With the immense popularity in multimedia products, we have added a large number of CD-ROM titles for Games, Education, CBTs, to our range.

So the next time you think software, think Binary, you're in safe hands.

...ght is the Country Distributor of AutoCAD products.
...ary is the National Reseller for AutoCAD products.
...r attractive offers and bundles of a vast range of products contact:

For a free colourful Software Finder covering thousands of products from round the world please write to:



Free Windows 95 and MS Mouse with every copy of AutoCAD Rel 13
(contact for more details)

All names are the trademarks of their respective manufacturers

BINARY SEMANTICS LIMITED

CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, ***TEL:*** 91-11-579 5615, 579 8069, 579 7078, 579 7084, ***FAX:*** 91-11-579 9406.
BRANCHES: BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, ***TEL:*** 91-080-221 5785, 224 0222, 224 1222, 224 3283, ***FAX:*** 91-080-221 ... **BOMBAY:** 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, ***TEL:*** 91-022-621 0867, 628 6937, 670 5763, ***FAX:*** 91-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, ***TEL:*** 91-033-473 3109, 473 2101, ***FAX:*** 91-033-473 0687; ***CHANDIGARH:*** 14, HORIZON ... CHAMBERS, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, ***TEL:*** 91-0172-706722, ***FAX:*** 091-0172-706043; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY, ... HYDERABAD - 500 026, ***TEL:*** 91-040-773 0399, ***FAX:*** 091-040-773 2811; ***PUNE:*** AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE - 411 030, ***TEL:*** 91-0212-44 8063, 43 2352, ***FAX:*** 91-0212-47 7829; ***MADRAS:*** 675, ANNA SALAI, 1000 LIGHTS, MADRAS - 600 006, ***TEL:*** 91-044-852 4438, ***FAX:*** 91-044-852 4112

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Your document management problems are over !

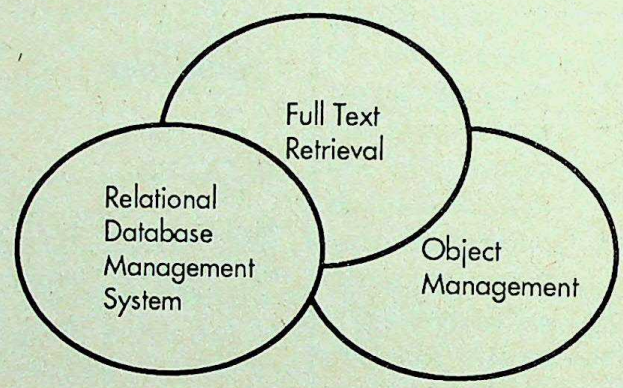
NATIONAL INFORMATICS CENTRE Presents

BASISplus with TECHLIBplus

software products from
Information Dimensions Inc.,USA.

NIC is the value-added reseller in India of
BASISplus, one of the best selling
Electronic Document Management Systems
based on Relational technology in Client-Server Architecture

integrating



BASISplus : *is the first DBMS designed expressly to manage documents & complex information types. It is capable of providing strategic document management solutions to Govt. agencies & different industries like manufacturing, pharmaceuticals, chemical, insurance, financial services, newspapers, law, publishing & bibliographic services. The features include:-*

- RELATIONAL DBMS
- MIXED OBJECT MANAGEMENT (Image,Sound etc.)
- FULL TEXT FREE KEY WORD RETRIEVAL
- UNLIMITED STORAGE & USERS
- INTELLIGENT SEARCH ASSISTANCE (Thesauras)
- HANDLES STRUCTURED & UNSTRUCTURED DATA
- CONTENT BASED & COMPONENT BASED RETRIEVAL
- MULTIPLATFORM CLIENT/SERVER ARCHITECTURE
- NETWORKING (LAN / WAN)
- RELATED 4 GL TOOLS
- BASIS ODBC - SQL DRIVER
- GUI BASED CLIENT INTERFACE (Desktop)
- OLTP
- Open API

TECHLIBplus : *a Comprehensive Library Automation Package designed over BASISplus , to streamline and facilitate all the operations of modern electronic libraries. It is fully integrated, flexible and very simple to customize,confirming to your unique profiles. The features include:*

- ACQUISITION
- OPAC
- CATALOGING
- OPAC FOR WINDOWS
- CIRCULATION
- SERIALS CONTROL
- MARC SUPPORT
- THESAURAS

ADDITIONAL SERVICES :

- SPECIALIZED TRAINING
- ON SITE TRAINING
- CUSTOMER SUPPORT
- CUSTOMISATION
- COUNSELLING
- SEMINARS
- HELP DESK
- WORKSHOP

NATIONAL INFORMATICS CENTRE NIC
THE IT SUPPORT PROFESSIONALS

For further Information Contact:
BASISplus DIVISION, NATIONAL INFORMATICS CENTRE
A - BLOCK , CGO COMPLEX, LODI ROAD, NEW DELHI 110003
PHONE : 4364292 , 4361133 / 4592 (extn): EMAIL : root@basis.nic.in
FAX : 91-11-4362628,4362489

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

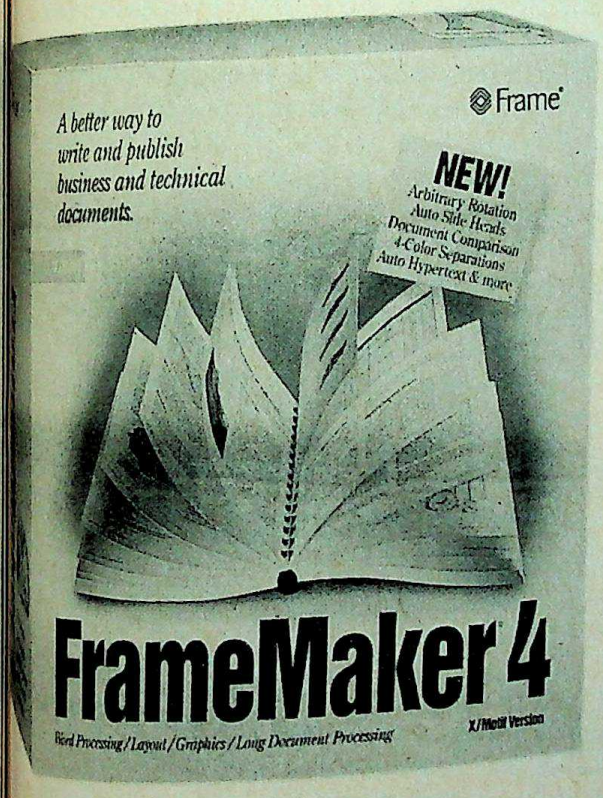
IBM's new PC 700 line of PCs will come with built-in software for creating Web pages. The new PCs can also be turned on remotely, allowing network managers to update software or perform maintenance when an employee is away.

IBM is adapting Java for use on its mainframes. It's also launched a new "InfoSage" service which, for a $25 monthly fee, delivers customized, topical news to an individual's PC twice a day. IBM will deliver up to 30 stories a day, culled from a variety of electronic sources, to a person's electronic mail or personal Web page.

SVNS

Adobe's FrameMaker 5 For Unix

Adobe Systems announced the availability of Adobe FrameMaker 5 for three UNIX platforms including Digital UNIX,IBM, AIX and Silicon Graphics IRIX. Adobe FrameMaker software is also available for Sun OS, Solaris and HP/UX, as well as for Microsoft Windows and Apple Macintosh and Power Macintosh.



FrameMaker software combines word processing, page layout, graphics, equations, tables and book-building tools for creating a wide range of publications, from books and technical manuals to reports, newsletters and presentations. FrameMaker 5 adds new features in several key areas including on-line publishing, authoring efficiency, compound document support and cross-platform compatibility.

Adobe FrameMaker 5 for Digital UNIX, IBM AIX and Silicon Graphics IRIX workstations is immediately available from Adobe's direct sales force to selected resellers worldwide. The suggested retail price is $1,495 for a personal license and $2,595 for a shared license. Users of FrameMaker 4 software may upgrade to FrameMaker 5 for $400 for a personal license or $600 for a shared license.

BW

Prodigy For Sale, CompuServe Set Free

Sears-Roebuck has put its 50% interest in the Prodigy Online service up for sale, trying to focus its business back to what it has done best—retailing. A day earlier, H&R Block said it was spinning off CompuServe.

Both services have felt the impact of the success of America Online, which has 5.1 million subscribers today. CompuServe has 4.3 million, and Prodigy, just 1.4 million.

The other 50 percent in Prodigy is owned by IBM, which has declined to comment on plans for Prodigy.

SVNS

Microsoft Gets Into Products For Online Retailing

Wal-Mart, the US-based chain of giant retail stores, is teaming up with Microsoft to sell its products over the Internet using electronic retailing software from Microsoft. Eventually, Wall-Mart may offer its entire portfolio of more than 200,000 products in its electronics store.

Microsoft chairman Bill Gates said Wal-Mart is the pilot customer as the software company tries to develop a broad set of products for electronic retailing, including an add-on for the Windows NT operating system to be released later this year.

Gates said a recent agreement between MasterCard and Visa will establish a common standard for secure credit card transactions over the Internet, enabling companies like Microsoft to offer various retailing products.

As part of the company's electronic retailing program, Microsoft is developing retailing enhancements to its operating systems that ultimately would give users access to a three-dimensional "virtual store" they could walk through electronically. Other features could include access to on-line audio help and video displays. Gates cautioned, however, that many of the planned features depend on faster communications than currently can be achieved through standard telephone lines and computer modems.

Motorola executives said the company plans to concentrate on the high-end business market for its Macintosh systems. But they added that they were actively looking for companies to sell Macintosh products made by Motorola in the PC markets.

SVNS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Hard Drives: Why Bigger Is Better

Disk drives are always shrinking in size. Today's notebooks use 2.5" or even 1.8" hard drives.

But last month, Quantum of Milpitas decided to try to reverse all this with a new 5.25" desktop drive named "Bigfoot", with 2.5 GB of storage. And Compaq, Acer and HP have committed to start building PCs computers using Bigfoot drives.

The larger drives, Quantum said, are much simpler and cheaper to make. The bigfoot drives use just 2 platters, against the four to six platters of a similar 3.5" drive, and thus require fewer parts and system complexity.

Hard drive market leader Seagate Technology is keeping an eye on the size debate but plans to stick with the smaller desktop PC drives for now. This week, Seagate announced the industry's highest-capacity disk drive ever—a monster 23.4 GB drive that uses 14 platters to provide more than 2.5 times the capacity of the next largest hard drive on the market today. Intended for mainframes, network servers and dedicated audio/video applications, Seagate's Elite 23, like its other high-end drives, is a 5.25" device.

SVNS

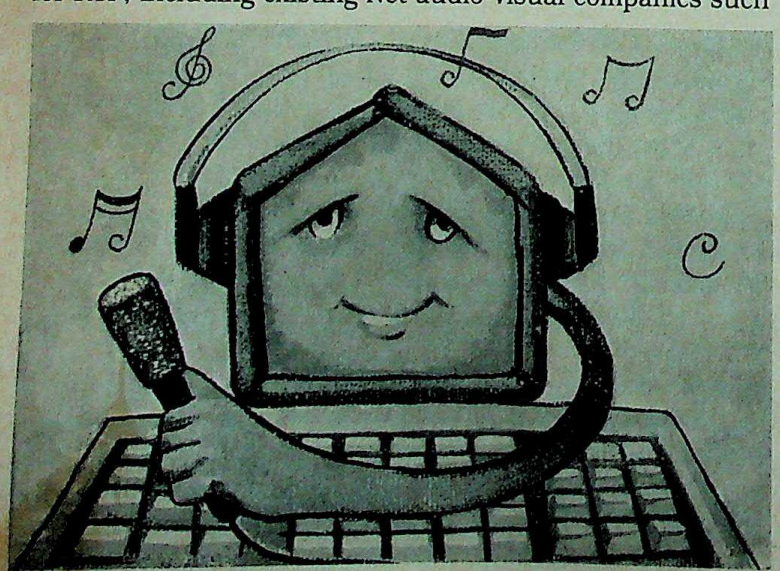
RTP Gets Netscape Support

Netscape has announced its endorsement of a transmission standard known as the "Realtime Transport Protocol," or RTP, that will be used for sending and receiving audio visual information over the Net.

The RTP standard, developed by researchers connected with the Lawrence Livermore National Laboratory and the University of Southern California, was designed to ensure that the growing list of Net audio-visual products can work together.

Besides Netscape, 11 other firms announced their support for RTP, including existing Net audio-visual companies such as Progressive Networks, which will have to revise offerings to comply with the new standard.

Calfornia-based Netscape Communications re steep increases in sales and modest increases in pr its second quarterly. Having risen from the $22 intro price last August, Netscape's stock continues to independently of market and economic developments Monday, for example, arch rival Microsoft announc major Net deal with MCI Communications that could significant competition for Netscape. But rather than a dive, Netscape stock responded by increasing $8 $167.



Chip Cooler Could Speed Up CMOS Chips

Superconductor Technologies of Santa Barb California, announced a new cooling syste CMOS-based computer chips that will increase sy performance by up to 50 percent.

The performance improvement is achieved by cool computer's ICs to -55 Celsius. Even greater improve are possible at lower temperatures, according to Danie chief of Superconductor Technologies. Cold computing help solve the problem of increased heat dissipation ca as chip speeds touch the 250-300 MHz range, where need up to 50 watts of dissipation, difficult with conven air-cooling.

The Stirling cryogenic cooler uses helium gas, thro eliminating the wear of contacting parts by providi cushion of helium gas for the parts to operate in. The Str cooler is considerably smaller and more efficient than cryogenic coolers, thus providing maximum cooling compact size.

Dell To Make Credit-Card Operated PCs

Dell is about to make PCs that can be activated credit cards, for use at public places and hotels that customers can "pay as they go" for services word processing or e-mail.

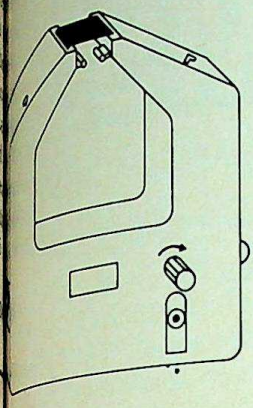
Dell will make PCs incorporating USA Technolo C3X System, the only credit card-activated computer sys

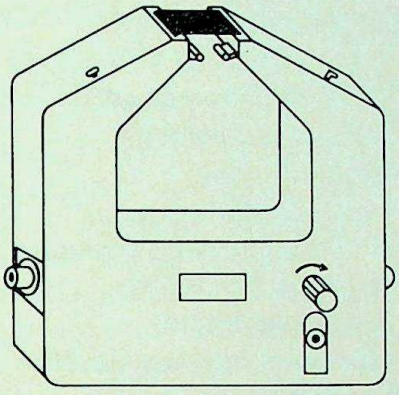
The deal will enable Dell to sell into such areas as ho airlines, airport terminals and other areas where people need to be able to work on a personal computer. research indicates that there is an enormous consu demand for affordable computer services. The C3X syste a natural for libraries, hotels, airports, copy centers cybercafes," a Dell spokesman said.

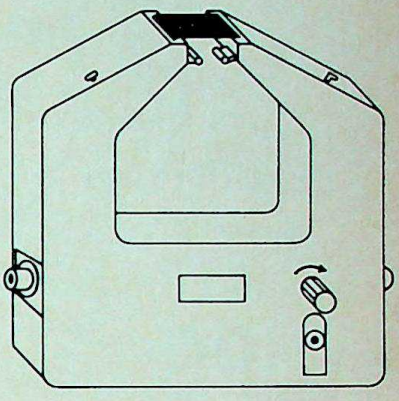
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

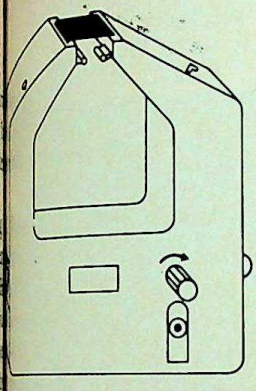
Digitized by Arya Samaj Foundation Chennai and eGangotri

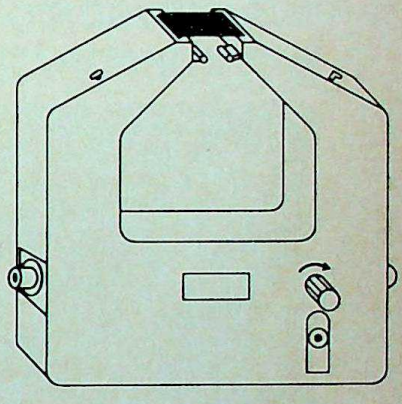
"All ribbons are not created equal"



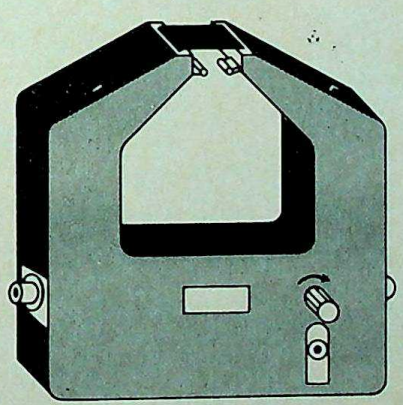








ASK FOR A FREE HAND POUCH WITH A PACK OF 24 TOPCLASS CASSETTES & PARTICIPATE IN LUCKY DRAW*



spite the similar appearance of ribbons
m different manufacturers, not all ribbons
created equal. Topclass ribbons are made
m imported raw materials, starting from the
best available Nylon 66 for fabric, best quality
s to the finest ABS plastic for the cassettes
parts. The cycle continues to the produc-
n process for inking, stuffing and welding
ures to ensure consistent product quality
roughout.

Topclass® RIBBONS

Committed to your Success

Topclass ribbons are available for over 150 models which include nylon cartridge ribbons, four colour robbons, spool ribbons, multistrike film ribbons, correctable film ribbons, inkjet refill kits, telex ribbons, refill packs and pancakes.

So get in touch with your nearest dealer on call upon us for *"Impressions That Lasts Forever"*.

offer valid till May 31st, 1996.

AUTHORISED DEALERS: **DELHI:** THE SUMMIT, 6430415; RAMSONS ENTERPRISES, 5707328; ABACUS MEDIA, 5557444; NEELAM SALES AGENCY, 3746728; COMPUTRMART, 3, INVEN COMPUTER CORNER, 3354481, THE ELECTRONIX SHOP, 6417921; • **AHMEDABAD:** PROMPT COMPUTER CENTRE, 6426652 • **AIZAWAL:** SUNFLOWER ...ONICS, 2087 • **AMRAVATI:** JUNEJA COMPUTERS, 74105 • **AMRITSAR:** ANI MEDIA & PERIPHERALS, 225795 • **ASSAM REGION:** D.D. ENTERPRISES, HOSPITAL ROAD, ...ELECTRONICS & BROTHERS, 22, SUKHES LANE, CALCUTTA • **BARODA:** JAY TRADING CORPORATION, 436681 • **BHATINDA:** MANGLA SALES CO., ...STEEL CITY: EASTERN INDIA COMPUTER, 40123 • **CALCUTTA:** GENLITE PRIVATE LTD., 262065 • **CHANDIGARH:** DATAPAQ, 774846 • **COIMBATORE:** ...& ASSOCIATES, 8756476 • **GUWAHATI:** MUKESH ENTERPRISES, 548110 • **GWALIOR (M.P.):** PARAGON COMPUTERS (P) LTD., 327299 • **INDORE:** IMPACT ...DATA PROCESSING CENTRE, 546805 • **JODHPUR:** ELECTRO EQUIPMENTS, 31313 • **KANPUR:** NICE COMPUTING, 292218 • ...AUTOMATION, 393411 • **LUDHIANA:** ESSAR ENTERPRISES, 458349; SYNDICATE COMPUTERS, 532856 • ...HEEMO INDIA, 541207 • **NAGPUR:** COMPUSHOP, 528944 • **NOIDA:** THE ELECTRONICS SHOP: 8529979 • ...PHATAK NO. 22, BRAR STREET, PATIALA • **PATNA:** KAISER COMPUTERS, 665231 • **RAIPUR:** BHARGAVA COMPUTER SERVICES, ...COMCON, 743440 • **SAMBALPUR:** PRAKASH INFORMATICS, 3290 • **SATNA (M.P.):** KATARE'S ...LIFELINE ENTERPRISES, 220280 • **SRINAGAR:** COMPUTERVISION, 78380 • **UDAIPUR:** M.M. ENTERPRISES, 83242.

Manufactured, Tested & Guaranteed by

Supertimers

F-292, FLATTED FACTORY COMPLEX
OKHLA-III, NEW DELHI-110020
TEL. : 683 1999, 684 4333, FAX : 11-682 3444

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INTEGRATED UPS SYSTEMS

INTEGRATED
Introduces
INTELLIGENT
UPS

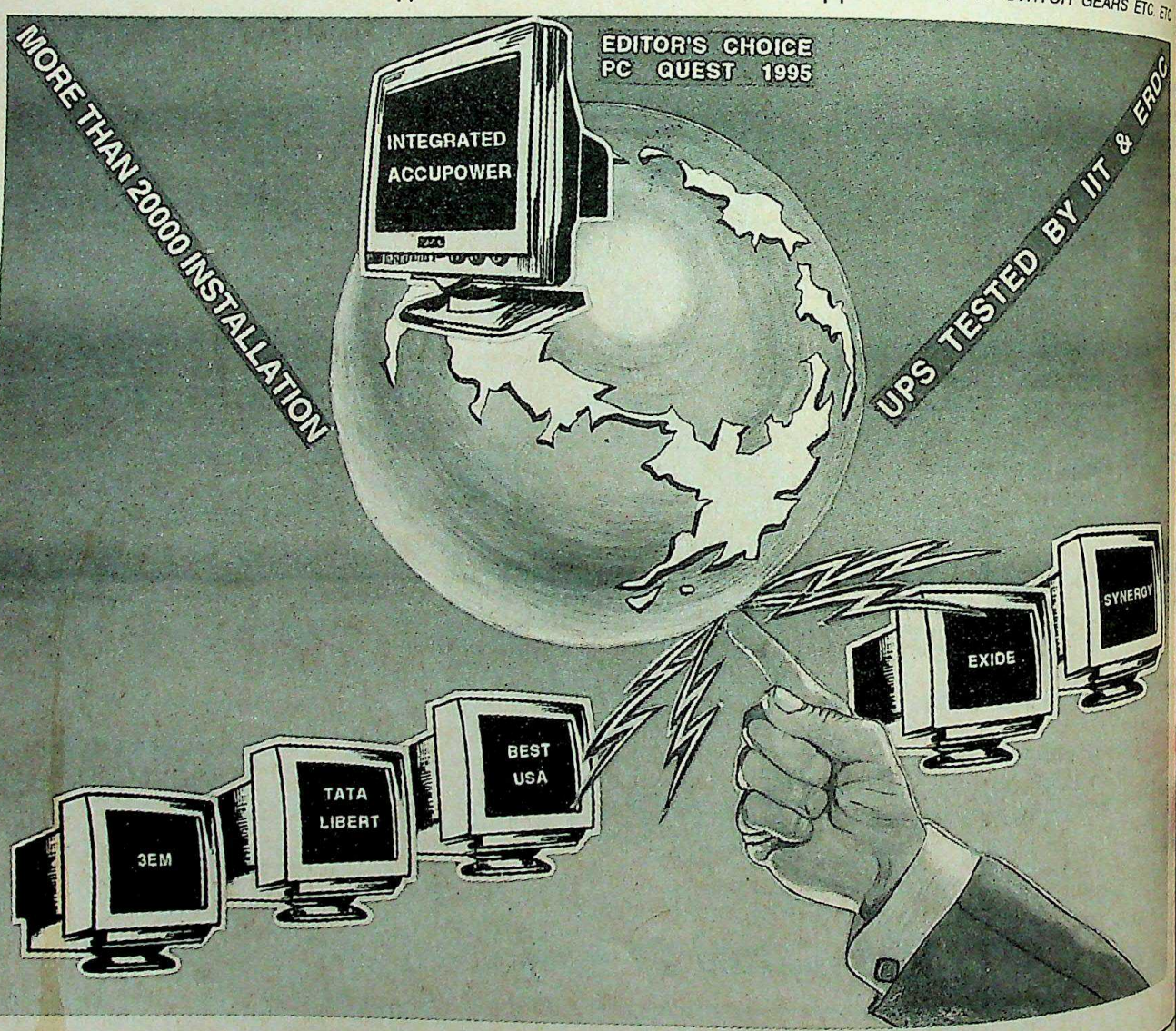
M/S VIEWSONIC INT. CORPORATION

FEATURES & BENEFITS

* PWM/MOSEFET Technology
* Operating Frequency: 50 KHz
* Noiseless Operation
* Digital Display
* Load Monitoring
* A.C. Static Switch Transfers to mains if UPS Fails
* Sinewave Output
* Computer Interface Facility

OUR VALUABLE CUSTOMERS:

SIEMENS, ASEA BROWN BOVERI, GERMAN AIRLINES, LARSEN & TURBO, EMBASSIES, IIT - DELHI, BILT, HCL-HP, TATA UNISYS, BPCL, ONGC, IPCL, OSWALS VARDHMAN, JCT, HERO CYCLES, RAJASTHAN SPG MILLS, J.K. TYRES, GRASIM, DCM HINDALCO, RAILWAYS, CMC, AMERICAN EXPRESS, I A - SWITCH GEARS ETC. ETC.



INTEGRATED EQUIPMENTS PVT. LTD

1522, ANSAL TOWER, 38, NEHRU PLACE, NEW DELHI-110019
TEL:6462300,6214702, FAX : 011-6846815

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ATM Forum Approves Five New Physical Layer Specifications

Providing end users with a wide variety of standardized media for ATM, the ATM Forum has approved five new specifications: UNI for E3, a Cell-based Transmission Convergence Sublayer for Clear Channel Interfaces, a 155 Mbps interface for Category 3 unshielded twisted pair (UTP) cable, a 622 Mbps optical interface for multimode fiber, and Utopia Level 2.

The E3 UNI will enable vendors supplying products to the European market to incorporate ATM into existing E3 equipment. The 155 Mbps over UTP-3 cabling offers a high speed interface while providing a migration path for 51 Mbps. The carrierless amplitude and phase modulation (CAP) technology used for these two UTP-3 specifications minimize installation costs by enabling connections over existing voice grade cabling.

The 622 Mbps optical interface provides very high bit rates for computer-to-computer applications, minimizing transfer time for high volume files or other high volume data. The interface allows vendors to use existing multimode fiber and specifications for both LEDs and short wavelength lasers.

The Cell-based Transmission Convergence Sublayer for Clear Channel Interfaces provides a means to transport ATM cells in the payload of any available transport mechanism. Examples include V.35, EIA/TIA 449/530, and EIA/TIA 612/613 (HSSI) or even RS-232.

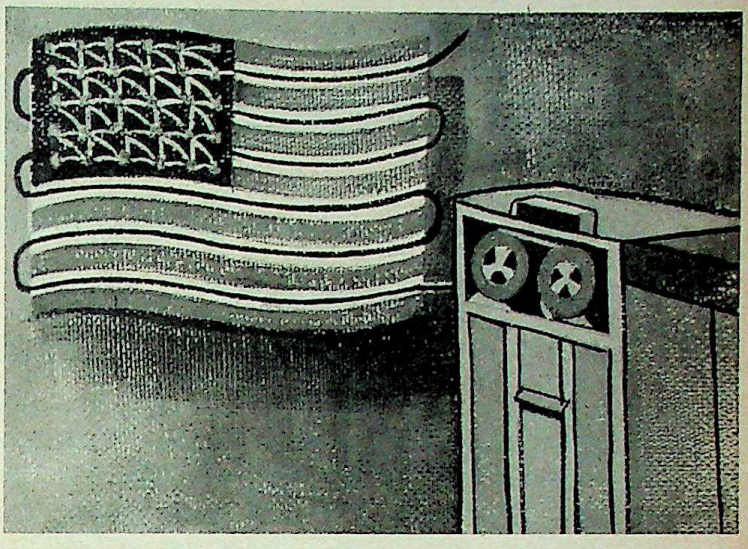
Utopia Level 2 is a follow-up to an earlier Utopia specification. It provides functional requirements for interconnections between physical layer chips and ATM level chips. Additionally, the data path for Level 2 accommodates 622 Mbps bit rates. The specifications are available through the ATM Forum. To receive an order form call the ATM Forum's Fax on Demand Service at 415/688-4318, email info@atmforum.com or access the ATM Forum's World Wide Web at http://www.atmforum.com.

BW

A PC For Every US Home?

Every home in the US will be linked to large computer networks in another 10...20 years, predicted Vice President Al Gore in February. "The completion of the information superhighway will take many years yet. But early in the next century it will run to every home in the country."

Gore said the U.S. government must form a partnership with private companies to ensure that computer access is available to every home. The telecommunications reform bill, which Congress passed last week and is expected to be signed by President Clinton, mandates Federal Communications Commission to name a panel to recommend what services customers need.



Asked about new regulations in the Telecom Act to prevent pornographic materials to be distributed over the Net, Gore said be believes the courts will decide on the constitutionality of placing such limits on explicit material on the Net.

SVNS

17.7" Sharp LCD

Sharp Electronics Corp today announced a passive color LCD that offers a large display area and resolution at a low price.The LM10C83 is a 17.7" diagonal color STN liquid crystal display with 1024 by 768 pixels.

With a sample price of $1095 and production quantities expected to sell for around $1,000, Sharp expects the new display to find applications on the desktop and in medical, financial and information kiosk applications.

The display area of the LM10C83 approximately matches viewing area of 20-21" CRTs. And it offers clear advantages over CRTs in some key areas including consistent color and image quality and ideal linearity across the entire display area making it easier on the eyes, insensitivity to strong magnetic fields and orientation relative to the earth's magnetic field, lower emissions to reduce health and safety risks (no x-ray emissions), power savings of at least 80% relative to equivalent CRT monitors and much smaller space requirement.

Preproduction samples are available now with production quantities in Q3 1996. Sample price is $1095 US.

BW

Starfish's Sidekick Available In 10-User Packs

Starfish Software Inc today announced that two versions of its best-selling Sidekick personal organizer software will immediately become available to volume buyers in money-saving 10-user Value Paks. Sidekick 95 and

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Sidekick 2.0 (for Windows 3.x users) will be available immediately through Starfish Software distributors Ingram Micro and TechData. The estimated street price for the 10-user Value Paks will be $399 (U.S.).

BW

ArcSoft's PhotoStudio for Windows

ArcSoft Inc is preparing for a new version of their flagship photo-editing software product, PhotoStudio for Windows v2.0, due in April '96. Meanwhile, they are joining one of the fastest-growing trends in the consumer software business today by announcing the availability of their current version of PhotoStudio for Windows (v1.5SE) at near-cost prices: $9.95. ArcSoft's PhotoStudio for Windows, for example, normally retails for $149, with street prices near $90.

The $9.95 version, PhotoStudio for Windows v1.5SE, is a professional-level photo editing (image manipulation) tool. Users can create slide shows, modify scanned photos, create virtual scenes, combine elements from different photos, and perform amazing "special effects" on any scanned photograph.

PhotoStudio offers full TWAIN support (a software interface for scanners), six smoothing filters, six sharpening filters, five liquid effects, seven special-purpose filters (such as maximum, minimum, etc.) and a variety of popular effects like fisheye, sphere, whirlpool and much more.

The CD-ROM also includes over 200 royalty-free photographs and 50 textures for use as backgrounds or borders. PhotoStudio for Windows v1.5SE requires Microsoft Windows 3.1 or later and is available only from ArcSoft.

BW

Phoenix PicoCard For Special Purpose PCs

Phoenix Technologies Ltd announced Phoenix PicoCard, the first PCMCIA software designed specifically for the emerging Special Purpose PC market, which include hand-held organizers, smart phones, and new consumer appliances like Net terminals and set-top boxes, as well as a wide range of industrial applications. Phoenix PicoCard uses a unique software architecture to provide full PCMCIA functionality in a fraction of the memory space of previous solutions, even in systems using less than 1Mb of RAM, common in these emerging markets. PC Cards are increasingly being used for communication, personal storage, and expanded capabilities for these systems.

PicoCard provides PC Card recognition, configuration, and robust power management for hundreds of PC Cards, including FAX/Modems, Network Adapters, Wireless Adapters, and Storage cards. Phoenix PicoCard provides the ability to boot the system from a variety of PC Cards, including the new generation of Flash Translation Layer

(FTL) FLASH cards. PicoCard also provides a P... Verification Service to OEMs to certify their platfo... compatibility with hundreds of the new cards.

Phoenix PICO recently signed a multi-year agre... with Hewlett Packard to provide software tech... including Phoenix PicoCard, on their new han... systems.

Phoenix PicoCard improves traditional PCMCIA s... solutions by providing full PCMCIA functionality i... third of the required memory space. Phoenix PicoCar... eliminates the need for point-enablers, PCMCIA drive... support only one or two cards on a system.

SunSoft Ships Insignia's SoftWindows

SunSoft Inc announced that it is now shippi... latest version of SoftWindows, an emulation p... from Insignia Solutions. SoftWindows 2.0 c... ments SunSoft's line of PC compatibility software, In... Wabi, by offering broad compatibility for SPARC work... users who want to run any standard or enhanced... Microsoft Windows or MS-DOS applications alongsi... Solaris applications from a single desktop.

Introduced by Insignia in September, SoftWindo... emulates a complete 486 PC, offering coverage for ... DOS and Microsoft Windows applications, including... in enhanced-mode. Microsoft Windows 3.11 and M... 6.22 come pre-installed and pre-configured, saving... installation time.

SoftWindows 2.0 is available through Sun resell... SunExpress. Manufacturer's suggested retail price ... is set at $549 for SoftWindows single-user packag... includes media, license, and hardcopy documen... MSRP for the SoftWindows 2.0 single license exten... $429.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Do Business Professionals need to learn programming ?

...t's a matter of selecting options and filling ...e blanks, Visual DBASE 5.5 Experts can ...ate Forms, Tables, Reports and Labels easily ...you.

...tup with writing X base code?

...te components visually and see the results ...bject oriented Visual dBase code, Visual ...-Way-Tools give developers the power to ...e quickly from prototype to production. ...Visual inheritance improves the ...sistency and reduces the maintenance.

...ient/Server?

...al dBASE 5.5 client/server version can ...nect to the most popular database servers ...ative SQL drivers, using the same user ...face and applications.

...ed to buy dBASE to run ...plication ?

...e your application! Deploy it! Distribute it! ...r applications don't need Visual dBASE to ...rt with it!

...rried about Windows 95 ...pport ?

...u can create database applications that run ...th on Windows 3.1 and Windows 95. Visual ...SE automatically senses the environment ...d adjusts itself. Use long file names under Windows 95 for easier file management.

The Visual dBASE family of products

Visual dBASE -- Create standalone and networked applications for your own use.
Visual dBASE Compiler -- Deploy your applications to other users royalty-free.
Visual dBASE Client / Server -- Includes Visual dBASE, Visual dBASE Compiler. Local InterBase® Server, native SQL drivers to connect to popular databases, plus a Data Pump Expert.

The Binary Advantage

We are an organisation which is over 10 years old. Amongst the top 100 IT companies in India, we have over 200 people working out of a network of 10 offices, including one in the US, and a 100% software EOU near Delhi, to execute large business application projects using RDBMS and GUI development tools. We have executed several large projects like East-West Airlines, Minda Industries Limited, ICI, UNICEF, Nirula's, CRY in the recent past.

Binary Semantics is the single largest source for ***Microsoft, Lotus, Borland, SCO, Autodesk, Novell, Oracle, Sybase*** and many more software packages. With our vast experience and technical expertise we offer integrated solutions based on these products. We have recently connected over 400 branches of Corporation Bank on e-mail. Similarily we have connected Sandoz, Boots and other large organisations. We also train the end users to effectively use these products.

We are the largest provider of AutoDesk products in the country. Our CAD / CAM Division has strategic alliances for CADPipe, a plant design software for process industries from Orange systems, USA, electrical control panel design software called promise from ECT Inc., USA, and CrystalEyes from StereoGraphics, USA. We offer expertise with dedicated manpower for handholding and troubleshooting CAD / CAM software.

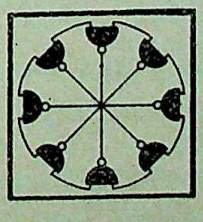
With the immense popularity in multimedia products, we have added a large number of CD-ROM titles for Games, Education, CBT's, to our range.

So the next time you think software, think Binary, you're in safe hands.

Visual dBase 5.5	***Rs. 12,500/-***
Visual dBase 5.5 *(competitive upgrade)*	***Rs. 7,000/-***
Visual dBase 5.5 *(competitive upgrade with mouse)*	***Rs. 8,000/-***
Visual dBase 5.5 *(with Windows for Workgroups)*	***Rs. 15,500/-***
Visual dBase 5.5 *(with Windows 95 upgrade)*	***Rs. 15,500/-***
Visual dBase 5.5 *(with Windows 95)*	***Rs. 16,950/-***

...SYSTEMS is the Country Distributor of Borland products. ...is the National Reseller for Borland products.

...a free colourful Software Finder covering ...ands of products from round the world ...ase write to:



BINARY SEMANTICS LIMITED

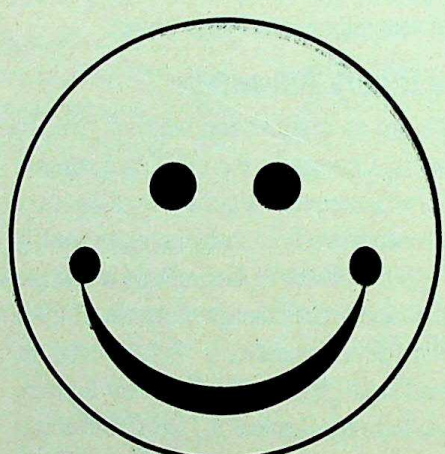
CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, *TEL:* 91-11-579 5615, 579 8069, 579 7078, 579 7084, *FAX:* 91-11-579 9406.
OVERSEAS OFFICE: PENNSYLVANIA STATE, P.O. BOX NO. 483, P.A. - 17001, ***U.S.A.*** *TEL:* 717-731-8468, *FAX:* 717-731-9857
...CHES: BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, *TEL:* 91-080-221 5785, 224 0222, 224 1222, 224 3283, *FAX:* 91-080-221
...MBAI: 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, *TEL:* 91-022-621 0867, 628 6937, 670 5763,
FAX: 91-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, *TEL:* 91-033-473 3109, 473 2101, *FAX:* 91-033-473 0687; ***CHANDIGARH:*** 14, HORIZON
CHAMBERS, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, *TEL:* 91-0172-706722, *FAX:* 091-0172-706043; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY,
...ERABAD - 500 026, *TEL:* 91-040-773 0399, *FAX:* 091-040-773 2811; ***PUNE:*** AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE -
411 009. *TEL:* 91-0212-44 8063, 43 2352. *FAX:* 91-0212-47 7829; ***MADRAS:*** 675, ANNA SALAI, 1000 LIGHTS, MADRAS - 600 006, *TEL:* 91-044-852 4438, *FAX:* 91-044-852 4112

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TVS ELECTRONICS

TVS Keyboards now come with a 2-Year Warranty



When it comes to delivering *quality keyboards,* TVS is *way ahead* of the competition. That's why more and more people are using *TVS Keyboards* as a replacement. Such commitment to *quality* has won the *trust* of our customers. Now, as a further proof of our *commitment* to *quality,* we are offering a *2 year warranty* on all our keyboards. TVS Keyboards. Quality that keeps you smiling. From ear to ear!

TVS Keyboards. Keyboards Your Fingertips Recommend

TVS Electronics Ltd., 10-B, I Phase, Peenya, Bangalore - 560 058. Ph: 8395000, Fax: 8396334.

Regional Offices: • Ahmedabad: 7478619/7411227 • Bangalore: 2261723/2261713 • Calcutta: 268355/262137 • Madras: 6412650/6412422 • Mumbai: 6247350/6247364 • New Delhi: 6212576/6212577 • Pune: 332856/369346 • Secunderabad: 847244/816667.

Pratibha/Blr/TVSE/58

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ew Toshiba Slimline 6X D-ROM Drive For Notebooks

oshiba's Disk Products Division has announced the industry's fastest slimline CD-ROM drive for notebooks.

oshiba's new XM-1402B offers leading six-speed rformance in a slimline format measuring only 17 mm x mm x 136.4 mm and weighing only 380 g.

he new six-speed XM-1402B internal CD-ROM drive ers a 900 kB/sec transfer rate and a fast 160 ms random s and 190 ms average access. The drive's performance, butable to its high rotation speed, was accomplished by brating the processing speed of the digital signal processor in error correction and by improving the pick-up motor support higher speed data accessing.

esigned for notebook computers, the drive has a low 3.7 verage power consumption. The drive incorporates a er-saving function that cuts consumption to 85 milliwatts en the drive is in a wait state. The drive operates with a 5V wer supply.

oshiba designed the new XM-1402B drive in a fully ed enclosure to prevent contamination and ensure ability. The drive has a 60,000 hour MTBF. The drive also o meets MPC-3 specs while supporting Kodak multi-sion Photo CD and CD EXTRA.

oshiba designed the drive for optimum performance g its own variable speed playback system and digital or control. The variable speed playback system allows the e to read data before the disc rotational speed reaches any 4 or 6 times standard rotational speeds.

he XM-1402B features a drawer-type disk loading system. drawer holds an inserted disk firmly and securely, ving disks to be left in a PC when it is being carried, or n if the PC is stood on end.

he new XM-1402B is designed for use in notebook puters and features an ATAPI interface that eases gration.

oshiba's XM-1402B internal CD-ROM drive is priced s 8140 in OEM quantities and samples are now available.

BW

icroNet Announces 2.6GB ewritable Optical Drive

icroNet Technology Inc. has announced a 2.6GB rewritable optical system for the Macintosh and PC. The 5.25" half-height external 2.6GB magneto al drive is one of the first read/write optical disk drives cept three ISO standard media formats, 2.6GB, 1.3GB 650MB (read only). The SB-TMO-2600 delivers capacity and high performance at a cost-effective e.

his optical drive provides maximum throughput up to B/sec., average reads up to 3.3MB/sec. and average es of 1.6MB/sec. and access times as low as 39 ms. The drive will also be available as a module for MicroNet's popular DataDock 525.

The suggested retail price for the 2.6GB DataDock 525 module and the external 2.6GB drive is $ 2,995, available March (US).

BW

Iomega Zip Drive To Be Built Into HP PCs

HP will become the first retail PC vendor to provide Iomega's Zip drive as a feature in its recently-announced HP Pavilion 7110Z multimedia PC.

The new HP Pavilion 7110Z PC minitower will ship with an Iomega Zip drive built in, and features a 120MHz Pentium processor, 16MB of RAM, and a 1,260MB hard drive. HP said it expects the new model will be available this spring at an estimated street price of $2,349. The addition of the Zip drive, which uses removable 100-megabyte Zip disks, makes the popular HP Pavilion PC ideally suited for consumers to work with large files (such as images), and gives them the storage capacity needed to take full advantage of the Internet and multimedia applications.

Iomega Zip drives and disks provide more than 70 times the capacity of today's floppy disks, giving HP Pavilion PC customers unlimited storage, increased flexibility and a built-in back-up system. Advanced data management software, through Iomega's Zip Tools software, also will be bundled with the HP Pavilion 7110Z PC.

BCO

Java-Based Web Tool Is "Hot Pick" at Seybold

FutureTense Texture, a Java-based Web publishing system, was chosen as "Hot Pick" for the Seybold Seminars Boston Expo.

FutureTense Texture is a Windows 95-based Web authoring tool and Java-based viewer that lets graphic designers create Web publications that are visually appealing, interactive, easily updated and easily customized. Designers can place text and pictures anywhere on a page, which can be updated dynamically. Although FutureTense is compatible with Java, users need not write Java or HTML code when creating pages.

The FutureTense Texture viewer is Java-based, free for private use and works with any Java-enabled browser on Windows, Macintosh, and UNIX platforms. This viewer is dynamically downloadable and requires no prior installation. Because Texture publications are delivered via Java, they are portable across popular platforms and browsers: Window 95/NT, Macintosh, UNIX, and Netscape Navigator 2.0 or other Java-based browsers.

BW

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PURE, CLEAN, ORIGINAL, ORACLE®

PRESENTING THE AUTHORISED ORACLE TRAINING CENTRES

Oracle training. The very latest version at that - Oracle7, is now in town.

So is your chance to get an internationally acceptable qualification that would increase your market value, worldwide.

Oracle7. With course material from Oracle. And faculty trained by Oracle.

Brought to you by SQL Star People (India) Limited, the Authorised Training Centre for Oracle.

Come and discover the pure, clean and original.

ORACLE7

At SQL, nowhere else.

BUSINESS ALLIANCE PROGRAMME

After meeting the stringent international standards of Oracle, SQL Star People (India) Limited, have been appointed as the Authorised Training Centre under the Business Alliance Programme of Oracle.

ORACLE® Authorised Training Centre

SQL PEOPLE

SQL STAR PEOPLE (INDIA) LIMITED

CALCUTTA
A7, 9th Floor,
Chatterjee International Centre,
33/A Chowringhee Road,
Calcutta-700 071.
Tel : +91-33-296582.

DELHI
2nd Floor, Andhra Association Building,
Next to Saibaba Temple, 24 & 25 Institutional Area,
Lodhi Road, New Delhi-110 003.
Tel : +91-11-4602904, 4601539
Fax : +91-11-4601597

HYDERABAD
4, Motilal Nehru Nagar, 1st Floor,
Above Mahalakshmi Motors,
Begumpet Main Road, Hyderabad-500 016
Tel : +91-40-849125, 846501
Fax : +91-40-816960

Adding value to software Professionals ... with International partnerships.

Oracle is a Registered Trademark of Oracle Corporation U S A

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVANTAGE

Intelligent Anti-Virus Toolkit

selected to be on guard for protection
of the New Delhi Online Trading System by

DELHI STOCK EXCHANGE

after an expert evaluation. The others evaluated were
Norton Anti Virus, Dr. Solomon Toolkit, Nashot, Red Alert, etc.

1000+ installations at one of the premier Stock Exchanges of the country
IAVT passed tough selection criteria because it offers features like :

NASSCOM '96
E•X•H•I•B•I•T•I•O•N
7 - 10 FEBRUARY • BOMBAY • INDIA
HALL NO. : B
STALL NO. : 180

IAVT

Releasing ALL NEW Generic File Scanner & Cleaner

- STOP VIRUS BEFORE DOS
- VIRTUAL INDICATOR
- GENERIC SCANNER
- CLEAN WITHOUT CLEAN DOS
- GENERIC BOOT/PARTITION VIRUS CLEANER
- CLEAN FILE VIRUSES WITHOUT DESTROYING FILES
- CLEAN MULTIPARTITE/POLYMORPHIC VIRUSES
- SPECIALLY ADAPTED FOR SOUTH-EAST ASIAN COUNTRIES
- 100 % INDIAN & ONLINE UPDATES/SUPPORT AVAILABLE
- INSTANT PROTECTION AGAINST INFECTIONS FROM FLOPPIES

Protect Your Computer Intelligently

FEATURES	IAVT	RED ALERT	NASHOT
GENERIC B/P CLEANER	YES	NO	NO
GENERIC FILE SCANNER	YES	NO	NO
VIRTUAL INDICATOR	YES	NO	NO
CLEAN WITHOUT CLEAN DOS	YES	NO	NO
CLEAN FILE VIRUSES WITHOUT DESTROYING FILES	YES	NOT ALWAYS	NOT ALWAYS
THREE YEAR WARRANTY	YES	NO	NO
PRICE (In Rs.)	1888.00	3000.00	N/A

All names are property or copyright of their respective companies. The above comparison is between IAVT Ver 3.01, Red Alert Ver 4.0 & Nashot Ver 17.0

STOP VIRUS BEFORE DOS

FIFTH GENERATION™

Fifth Generation Software Limited

Regd. Off. : 5, Ashoka Park (Main), Rohtak Road, Delhi - 35. Ph : 5103299, 5458018 Corp. Off. : 140, Zamrudpur, Nehru Mkt, Opp. LSR College, New Delhi - 48 Ph : 6210808, 6229805 Fax : 6210580
Bombay : Raj Villa 2, Outpost Military Camp, Vakola, Santa Cruz (East), Bombay - 400029 Phone : 6185669 Ahmedabad : 27, Vijay Complex, Vasna, Ahmedabad - 380007 Phone/Fax : 415770
Hyderbad : 3-5-1033, Lane Opposite Venkatesa Theatre, Narayanguda, Hyderabad - 500029 Phone : 235471 Fax : 517410
Amritsar : Computer Associates - 228769, Bangalore : Namratha Electronic Centre - 6619116, Link Systems - 3350389, Bombay : Gem Telecom - 421201, Gripp Computer Services - 5341301, India Business Machine - 5113272, Micro-Tech Enterprises - 5426728, Delhi : Ansun Electronics - 6414613, BPB Publications - 3325760, Computer Zone - 6462068, Computer Professionals - 6449960, First Computers - 2415743, Lotus Graphics - 6418046, Omniscent Computers - 5731185, Shivom Computers - 5512815, Softman Computers - 6483376, Vikmans Peripherals - 6429547, Goa (Mapusa) : Spectrum Software & Services - 250405, Jablapur : The Computer Shoppe - 25216, Jaipur : MicroPlus Computers - 317800, Computer Jyoti - 514107, Jalandhar : Software Solutions, Lucknow : Rakshit Computers - 240895, Madras : Devraj Computers - 8525856, Moradabad : XL' Brain Computers - 317769, Patna : Shree Sati Computers - 659806, Varanasi : Computer Shoppe - 362566

DEALERS/DISTRIBUTORS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Makhanlal Chaturvedi
Rashtriya Patrakarita Vishwavidyalaya
E-8, Arera Colony, P.B. RSN-60, BHOPAL -462 016.
☎ (0755) 575307,66659; FAX: (0755)-561970.

COMPUTER TRAINING INSTITUTES

to be registered as Study Centres to

CONDUCT COMPUTER COURSES

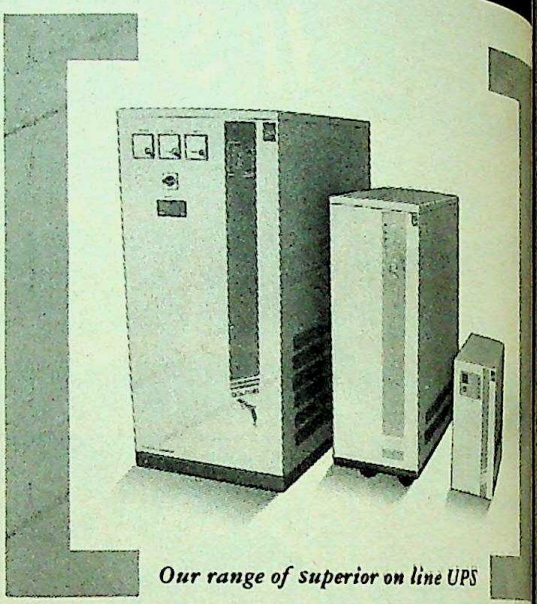
The University offers an excellent opportunity for Computer training institutes to conduct the University **DIPLOMA IN COMPUTER APPLICATION course. All Institutes registered as study centres will prepare students and sponsor them for the University DCA examination and various Certificate courses. After completion of DCA, Graduate candidates will be allowed to appear for PGDCA, of the University. Last year over 100 centres were registered all over the country.**

The University has been setup by Act No.15 of 1990 of M.P. State Legislature. The University is a member of Association of Indian University & Association of Commonwealth University in London.

Details of the scheme along with prescribed application form can be obtained on the payment of Rs.250/- in cash or Draft/IPO drawn in favour of the University payable at Bhopal. The last date for receiving the completed application forms is 31.3.96 and 20.4.96 with late fee.

REGISTRAR

After being in Power *for* 40 years, *we understand* the current situation *best.*



Our range of superior on line UPS

Being the industry leaders for over 40 years, our solutions are just powerful when it comes to power disturbances.
Don't let blackouts, brownouts, surges and spikes eliminate precious data. Or worse still, destroy your expensive hardware.
The advanced range of UPS Systems backed by the trusted Kirloskar Electric name and the technical knowhow of Toshiba Corporation Japan, ensures 100% protection from all power aberrations.
What is more, the extensive and intensive care of our country sales and service network will ensure that you are never in the dark.

Kirloskar **KIRLOSKAR ELECTRIC**
An ISO 9001 Company

Manufactured at: Unit-IV, Belavadi Industrial Area, Mysore
Tel: 42522-26, 42540-43, Fax (0821)42266, 42008

Branches: Delhi: Ph. 6445469, Kanpur: 217020, Meerut: 560053, Ludhiana: 6008[illegible], 360403, Calcutta: 2428201, Guwahati: 548736, Bhubaneswar: 406539, Ranchi: [illegible], Jamshedpur: 426116, Patna: 261393, Bombay: 4925638, Nagpur: 538339, Pune: [illegible], Aurangabad: 33524, Ahmedabad: 448960, Surat: 687920, Bhopal: 564451, Durg: [illegible], Indore: 430750, Jabalpur: 323351, Madras: 8521424, Coimbatore: 431742, Cochin: [illegible], Hyderabad: 311281, Vizag: 547086, Bangalore: 2234022, Belgaum: 433459.

Dealers / Re-sellers: **Delhi:** Indian Digital Equipments Ph: 6462271, [illegible], B.D.S.Equipments Ph: 457557, Rajesh Electronics Ph: 33938, **Jaipur** Concept Engg. Ph: 428572, **Calcutta:** Automation India Ph: 721392, **Bhubaneswar:** Chinmaya Electronics Ph: 414522, **Bombay:** Control Technics Ph: 8832859, Ameya Sales Ph: 533137, Bhopal Bera Computers Technology Inc. Ph: 4143415, **Nagpur:** Debashu Sales Ph: 46628[illegible], Jabalpur Ph: 552318, **Indore:** Das Agencies Ph: 532655, Crescent Computers Ph: 5229420, Kewal Kumar Computer Land Ph: 316138, **Madras:** Ponni Engineers Ph: 562477, Coimbatore Ph: 8282946, Essem Electronics Ph: 28048, **Cochin:** Koluthra Systems Ph: 36[illegible], **Hyderabad:** Cyber Systems Ph: [illegible], Alpha Numeric Ph: 214336, Marksman Marketing Co., **Bangalore:** Computer Point Ph: 315673, Signal Sports: Ph:233483, Jawab Electronics Ph: [illegible], **Belgaum:** J.V.Electronics Pvt. Ltd. Ph: 3329746, Savim Technology Ph: 3304236, **Goa:** Kamath Engineers Ph: 733058.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

APPOINTMENT LISTING

A compilation of positions advertised between 1 February and 29 February, 1996 in various Newspapers

$ Package ➤ Contact

OVERSEAS

RESEARCH & DEVELOPMENT ENGINEERS • USA • AT & T

Qualifications :B.E \ B.TECH\M.TECH\PHD IN COMPUTER SCIENCE, ELEC, TELECOM Experience : IN NETWORKING, DATA COMMUNICATION, UNIX $ Attractive ➤ DR.LAWRANCE PERIS 1112, ARUNACHAL, 19 BARAKHAMBA ROAD, NEW DELHI-110001 (TOI - 10/02/96)

COMPUTER PROFESSIONALS • WILLINGTON • ACS RESOURCES INC.

Qualifications : RELEVANT Experience : 3-5 YEARS $ Attractive ➤ 104, HUNTER COURT, LIME STONE HILLS, WILLINGTON-19808 (TOI - 11/02/96)

SOFTWARE PROFESSIONALS • EUROPE N.AMERICA • ITC LIMITED

Qualifications :BE\ME\MCA Experience : 2-5 YEARS $ Attractive ➤ HUMAN RESOURCES MANAGER 1-4, RAJARAM MOHAN ROY RD, BANGALORE-560025 (DCH - 13/02/96)

SOFTWARE PROFESSIONALS • USA • DATASOFT APPLICATION SOFTWARE

Qualifications : OS, WINS, WIN-NT,C,C++ Experience : 3-5 YEARS $ Attractive ➤ CASA MARINA LAXMAN MHATRE MARG, BOMBAY-400103 (TOI - 15/02/96)

INDIAN

SOFTWARE PROFESSIONALS • MADRAS • TATA CONSULTANCY SERVICES

Qualifications : ENGINEERING Experience : 2 YEARS $ Attractive ➤ SR. MANAGER PERSONNEL NO. 1 HABIBULLAH ROAD, T. NAGAR MADRAS-600017 (HIN - 03/02/96)

COMPUTER PROFESSIONAL • BOMBAY • THE TIMES GROUP

Qualifications : RELEVANT Experience : UNIX, C, WIDE AREA NETWORK $ Attractive ➤ CHIEF GENERAL MANAGER, BENNET COLEMAN & CO. LTD. DR D.N ROAD, BOMBAY-400001 (TOI - 05/02/96)

DESIGN & DEVELOPMENT PROFESSIONAL • NOIDA • SGS THOMSON MICRO ELECTRONICS

Qualifications :BACHELOR IN ELECTRONICS\ELEC\COMPUTER ENGINEERING Experience : 1-5 YEARS $ Attractive ➤ HUMAN RESOURCES MANAGER, PLOT 2&3, SECTOR - 16A, INSTITUTIONAL AREA, NOIDA-201301 (ABP - 11/02/96)

TECHNICAL MANAGERS • CALCUTTA • NIIT LTD.

Qualifications :ENGINEER\MCA\MBA\GNIIT Experience : 4-7 YEARS $ Attractive ➤ HUMAN RESOURCES MANAGER 6, ROYD STREET, CALCUTTA-700016 (TEL- 11/02/96)

SOFTWARE ENGINEERS • GURGOAN, MADRAS • HCL CONSULTING LIMITED

Qualifications : RELEVANT Experience : 2-15 YEARS $ Attractive ➤ RESOURCE MANAGER 3, UDYOG VIHAR, PHASE - I GURGOAN-122016 (TOI - 14/02/96)

SOFTWARE PROFESSIONAL • BANGALORE • MOTOROLA INDIA ELECTRONICS LTD

Qualifications : B.TECH / M.TECH / MCA Experience : 5 YEARS $ Attractive ➤ RECRUITMENT MANAGER NO. 33A, ULSOOR ROAD, BANGALORE-560042 (DCH - 15/02/96)

TEAM LEADERS • BANGALORE • SIEMENS LTD.

Qualifications : RELEVANT Experience : 5-8 YEARS (2-3 IN TECH MGT) $ Attractive ➤ SR MANAGER HRD, 10TH FLOOR, RAHEJA TOWERS 26-27 M.G ROAD, BANGALORE-560001 (DCH - 16/02/96)

SOFTWARE PROFESSIONALS • MADRAS • SUNDARAM TELEMATICS LIMITED

Qualifications : REVELANT Experience : 3 YEARS $ ➤ MANAGER HR & ADMN. G.R PLAZA, SECOND FLOOR, 714, PATHARI ROAD, MADRAS-600006 (HT - 20/02/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

REQUIRED INTERNET HUNTERS

NETWORK COORDINATORS

JOB PROFILE : Operate a WWW, FTP, Telnet site. Establish PSTN dial up connectivity. Oversee the day to day activities of Internet Services. Responsible for System security, subscription management.

YOU SHOULD BE : Ideally a BE, B.TECH or MCA. Familiarity with Internet/Networks/Modems required. 1-5 yrs experience in LAN/WAN management.

ADDED ADVANTAGES : Knowledge of Web Page Publishing Experience in CGI/ Perl Scripting.

WHAT WE OFFER : We will place you at the edge of technology. An open environment to work, grow and lead. Experience the latest in Web Designing, HTML, JAVA on the latest hardware in the world.

CONTENT CREATORS

Independently create a world class electronic magazine. Plan and execute content and layout of the magazine.

YOU SHOULD BE : Experienced in designing or publishing. Work on HTML/Web Publishing will be an added advantage. Familiarity with computers is a must.

WHAT WE OFFER : Opportunity to produce a world class online magazine competing with the very best in the world. Open environment to design and create.

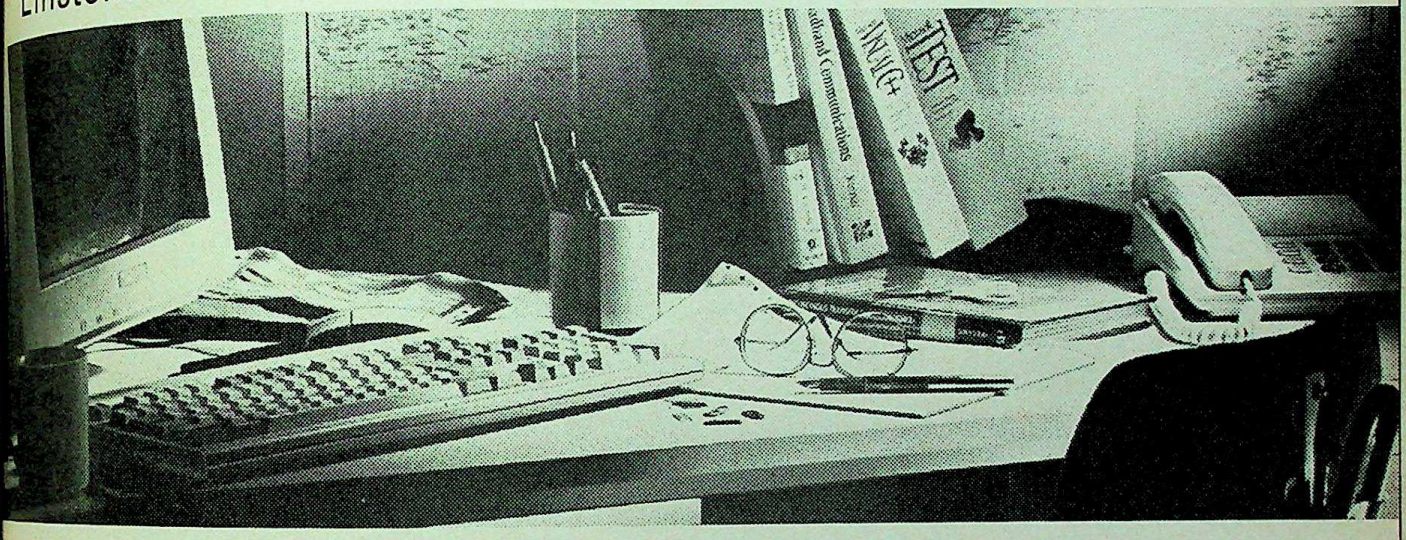
Contact within ten days:
Box No. PCQ/AS-1
C/o PCQUEST, D-14 Panchsheel Enclave, New Delhi 110017

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SIEMENS

Einstein. Patton. Kasparov.



Just the kind of software professionals we're looking for.

In short, software professionals who are thinkers and master strategists. Who can plot moves. Mastermind a project. And lead a team.

If you think you fit the description, welcome to Siemens Communication Software (SCS).

A 100% export oriented unit, it is a company that's zooming on the fast track. Consider the facts. Within a year, our employee strength will double to 400. And by 2000 AD, it is expected to be a staggering 1000.

At Siemens Communication Software, we would like to offer you an opportunity to work on the latest communication technology that will be used the world over. Like Telecommunications Management Network (TMN) and Multifunctional Switch Board (MSB).

Besides, you will also get a chance to be in touch with engineers in several R & D software centres of Siemens, spread across the world. In Germany, USA, Austria and Portugal, to name a few.

Team Leaders / Experts

We are looking for software professionals with leadership qualities. You should have about 5-8 years' experience in software development of which 2-3 years should be in technical management. Work experience in areas like UNIX, WINDOWS, X-WINDOWS, OSF MOTIF, C/C++ and Object Oriented Analysis and Design is necessary. Exposure to Software Engineering Processes would be an advantage.

The compensation package will match the best in the industry. If you fit the bill, please send your bio-data, along with your passport-size photograph within 10 days to :

The Senior Manager - Human Resources
Siemens Communication Software Ltd.
10th Floor, Raheja Towers
26-27, M.G. Road, Bangalore - 560 001.

It could mean a great career move.

Siemens Communication Software Ltd.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TWO SEMINARS THAT WILL CHANGE THE WAY INDIA DOES BUSINESS

"HELLO, MY NAME IS ATUL CHITNIS, AND THIS IS MY FRIEND, KISHORE BHARGAVA"

Since 1994, these words have been the beginning of an incredible experience for thousands of people across India, as these two internationally renown technology consultants helped launch them into Cyberspace.

Now they are back, with a never-before combination of not one, but two full day seminars, held on consecutive days.

SEMINAR 1 : INTRODUCTION TO DATACOMM

A seminar designed to introduce the audience to the fantastic world of datacommunications. Starting with the very basics, this seminar will carefully guide you through subjects such as what is datacommunication, what modems are and how they work, how to select a modem best suited to your needs, all the way to Electronic Mail, online services such as BBSs, CompuServe and, of course, the Internet.
No prior knowledge of datacommunication is required.

SEMINAR 2 : BUSINESS ON THE INTERNET

A seminar designed to guide CEOs, managers and executives through the process of getting their business onto the Internet. It will address various methods of business communication via the Internet (including advertising and marketing), as well as various mission critical topics such as security and financial transactions via the Internet, setting up of a presence on the World Wide Web and the linking of offices via the Internet.
Knowledge of datacommunication concepts is required.

SEMINAR ORGANISATION

Each seminar is supported by its own detailed demonstrations, in-depth discussions, extensive printed course material and disks full of useful utilities andapplications that will get you up and going immediately.

While completely self-contained, newcomers to the world of datacommunication should consider attending both seminars for maximum benefit. Topics covered in Seminar 1 will not be repeated in Seminar 2.

GLOBAL AND INDIAN FOCUS

These seminars do not just present the concepts and the technology, but also focus on the Indian aspects and issues involved. Together, they will give you all the knowledge you need to understand the way the world will communicate in the final years of the 20th century.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Introduction to Datacomm

- oduction to Datacommunication
- ducing Modems
- ecting a Modem
- Transfers
- Zmodem and Kermit
- ducing Electronic Mail
- ctive Electronic Mail
- e Services
- etin Board Services (BBSs)
- porate BBSs
- ing up a BBS
- puServe Information Service
- Internet
- World Wide Web
- comm Troubleshooting

Business on The Internet

- Intro to Business on the Internet
- Internet Business Resources
- Internet Marketing Platforms
- Marketing with the WWW
- The Internet for Customer Support
- International Business on the Net
- Web Browsers
- Advertising on the WWW
- Development of WWW Pages
- WWW Page Design Guidelines
- Internet Financial Transactions
- Intellectual Property Rights & Patents
- Privacy on the Internet
- Security Strategies
- Internet as a Business

City	Seminar 1	Seminar 2	Time	Venue
Bangalore	4th March	5th March	10:00 a.m.	Taj Residency
Madras	7th March	8th March	10:00 a.m.	Chola Sheraton
Calcutta	11th March	12th March	10:00 a.m.	Park Hotel
Bombay	14th March	15th March	10:00 a.m.	Airport Centaur
New Delhi	18th March	19th March	10:00 a.m.	Taj Palace

EMINAR PARTICIPATION FEES

roduction to
tacomm : Rs.3,000

siness on
e Internet : Rs.5,000

Seminars : Rs.7,000

s include Printed Course Material,
ettes, Lunch, Tea and Snacks.

REGISTRATIONS

For bookings and more information, please contact any of our offices at the addresses shown here, or contact us electronically at:

E-Mail : cyberb@giasbm01.vsnl.net.in

World Wide Web : http://ece.iisc.ernet.in/monster/seminar/

Please book well in advance to avoid disappointment

CYBEREXPO
Division of Cyber Media (India) Ltd.

BANGALORE
401, 4th Floor, MBC
134 Infantry Road
Bangalore 560 001
Phone: 551-1511, 556-8238
Fax: +91 (80) 556-2971

MADRAS
7th Floor, Guna Buildings
304/305, Mount Road
Madras - 600 018
Phone: 45-9458
Fax: +91 (44) 825-2828

CALCUTTA
Sourya's Business Center
233/3 AJC Bose Road
Calcutta - 700 020
Phone: 247-1285, 40-6492
Fax: +91 (33) 40-8423

BOMBAY
2, Jain Chambers
577 S.V.Road, Bandra
Bombay - 400 050
Phone: 645-0050/1, 642-7910
Fax: +91 (22) 640-3986

NEW DELHI
506 Meghdoot
94 Nehru Place
New Delhi - 110 019
Phone: 641-6315, 647-6664
Fax: +91 (11) 641-1692

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

NEPAL

PC QUEST LAUNCHED IN NEPAL

PC QUEST, THE FASTEST GROWING COMPUTER MAGAZINE, HAS BEEN OFFERING INFORMATION ON THE LATEST PRODUCTS AND TECHNOLOGIES FOR THE LAST SEVEN YEARS. A **FOUNTAIN OF INFORMATION** FOR THE IT PROFESSIONALS, **PC QUEST** HAS PLAYED A MAJOR ROLE IN THE POPULARISATION OF COMPUTERS IN THE COUNTRY.

WITH A VIEW TO REACH MORE PEOPLE, **PC QUEST** HAS GONE **INTERNATIONAL.** (BEGINNING WITH NEPAL).

IN A RAPIDLY DEVELOPING AND GLOBALISING NEPALESE I T SCENARIO, WITH MAJOR MULTINATIONAL VENDORS SELLING THEIR PRODUCTS THERE, THE NEPALESE MARKET, IS DEFINITELY HOTTING UP. THE PROMISE OF MASSIVE INFORMATION EXPLOS... MAKES A CREDIBLE, COMPREHENS... AND UNBIASED MEDIUM A NECES... TO CATALYSE THIS GROWTH PROCE...

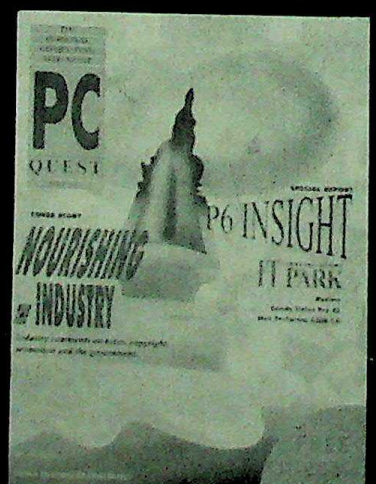
OBVIOUSLY, **PC QUEST** IS THE O... AND ONLY MAGAZINE WHICH CAN ... FULL JUSTICE TO THIS SER... ENDEAVOUR.

THE NEW MAGAZINE AIMS AT KEEP... LOCAL USERS AND VENDO... INFORMED ABOUT THE LATEST I...

PC QUEST NEPAL COVERS NOT O... WILL RESEARCHED TECHNOLOG... INSIGHTS AND PRODUCT REVIEWS, ... ALSO INCLUDES ISSUES RELATED TO ... INDUSTRY, MARKETS AND POLICIES ... NEPAL.

NEPAL IS JUST THE FIRST STO...

PC QUEST INTENDS GOING TO OTH... PLACES TOO.

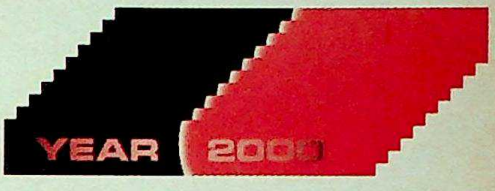


FOR FURTHER DETAILS CONTACT:
D-14, PANCHSHEEL ENCLAVE,
NEW DELHI-110 017
PH.: 6433999, 6435999, 6413938

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Year 2000 FAQ



Answers to frequently-asked questions about the Year 2000 date problem

"The alternative to addressing the year 2000 will be going out of business."
-Kevin Schick, The Gartner Group

On January 1, 2000, millions of computer applications may go haywire. Why? To save space when recording dates, many computer programs allow only two digits for years: as in '96'. Computers using such dates to determine a person's age or a past-due bill, for instance, may be stymied by the year 00 in 2000.

For example, COBOL programs currently represent February 26, 1996 as 960226, and January 1, 1997 as 970101, allowing the computer to compare the two numbers and correctly assume that the smaller number represents the earlier date. On January 1, 2000, or 000101, however, those comparisons will fall apart.

What is the year 2000 problem?

Computers record time and dates as just another number, and as time progresses the time number gets larger—so a *future* date is always *larger* than a *past* date.

Some programmers interfered with this nice progression by deleting the century digits from dates—they didn't think they would be needed!

Without the century digits the last year of this millennium will be 99-12-31, and after the stroke of midnight January computers will see January 1, 2000, as 00-01-01—a Smaller number than the day before—time will appear to have *reversed*.

Duncan G. Connall <dconnall@tiac.net>

How serious is it?

According to the Gartner Group, 90% of the applications will be affected by the Date 2000 problem, and systems will crash, if the century problem is not corrected before 1999. 20% of business applications will fail due to date computations in the year 1995. Most major corporations are expected to spend about $50-100 million. The Gartner Group estimates "A medium size shop with approximately 8,000 programs, each program averages 1,500 lines of code, and a data reference to lines of code ratio of 1:50 will cost in the range of $450/program to $600/program or $3.6-$4.8 million for the entire initiative".

There are an estimated 180 billion lines of COBOL code on MVS, and about 900,000 COBOL programmers dedicated to maintaining this code. If you would like to correct the date change operation, using automation tools and spread over a three year period 1996-1998, without affecting the regular maintenance and new development, a minimum of 200,000 COBOL programmers should be added to the existing pool (Under the assumption that 1999 would be used, for fire-fighting measures). Going by the Gartner estimates, the total cost to correct the entire COBOL code would be US $48-65 billion. All these only for COBOL. Add Assembler, PL/I, Pick, ...

Raghavendra Rao <gr266@satyam.jvnc.net> of Satyam Computer Services Ltd

On what date will the 21st century begin?

The 1st century consisted of the years 1 through 100. The 20th century consists of the years 1901 through 2000 and will end Dec. 31, 2000. The 21st century will begin Jan. 1, 2001.

The World Almanac and Book of Facts 1992

What is the year 2000 day-of-the-week problem?

Most programs that calculate the day of the week using only the last two digits of the year will get wrong answers for January 1, 2000, and all subsequent dates. This is because the formulas they use implicitly assume that the dates are in the 1900s. January 1, 1900, was a Monday, but January 1, 2000, will be a Saturday.

What is the 1999 problem?

Many people are aware of a related problem that might happen for all computer files created on Sept. 9, 1999. This date (9/9/99) was popular back in the 1980's as an expiration date for (forever) archived data that you wanted to have 'no expiration date'.

Is this only a COBOL problem? Could any language have prevented the

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

current Y2K problem?

No, because Y2K is a management (planning) problem, not a technical OR a languages problem. However there are plenty of Y2K COBOL problems!

The older COBOL/VS and COBOL II do not now, nor ever will support 4-digit years. IBM has stated this multiple times. They do provide 4-digit support in COBOL/370 (new name is COBOL for MVS & VM) and LE/370 (new name is Language Environment for MVS & VM).

Also, any future improvements, to support client/server applications, etc, will only be made to COBOL/370. As COBOL/VS and most likely COBOL II won't be supported by 2000, you'll have to convert at some point. Why not do both changes at one time?

JoeWar110@aol.com

What about Windows? Does it have a problem?

A problem with the Windows-based calendar is that it only accepts years 1980 to 2099. It is not a good tester of leap years like 1900, which should not be a leap year.

The UNIX 'cal' program is much better than the Windows-based Calendar program. It shows September 1752 correctly as Great Britain switched from the Julian to the Gregorian calendar in that month.

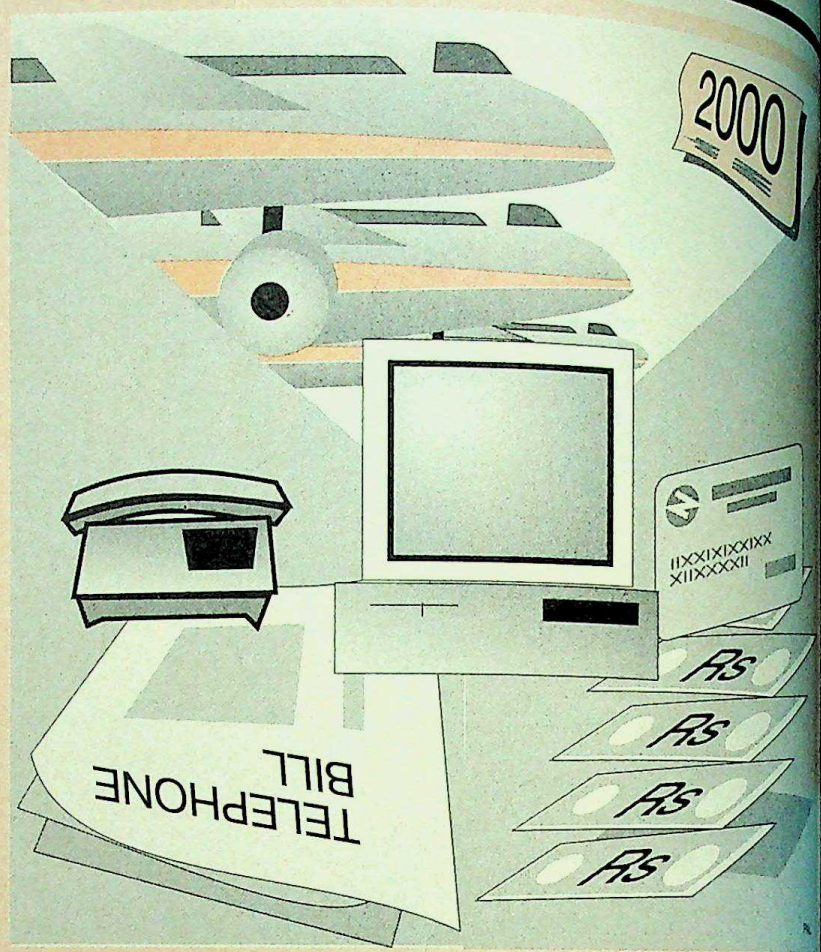
At first glance, Windows 95 appears to be okay; however, it may have a problem 100 years later.

Windows 95 itself has no problems with dates past 2000. It can only go up to the year 2099, though, but can still go back to 1980. However, the 2099 limit shouldn't be a problem for a while.

One Win 3.1 application, a talking clock, appropriately enough, choked on a post-2020 date; from 2000 to 2020, it interpreted the dates at 1900 to 1920!

One time, when I forgot to change the time back afterwards, I was unable to boot because my beta had "expired" in January 1996! I had to reinstall Windows 95. At least that won't be a problem in the commercial edition (which I haven't bought yet [note: PCQ Labs faced this same problem with the same Win 95 Beta—it expired on us in November—*Ed*].

Michael J Averbuch
<mikeaver@prairienet.org>



"When the clock strikes 2000, computers will go haywire"
With...

- phone calls just after midnight billed for 53 million minutes.
- planes grounded because they're 99 years overdue for maintenance.
- VISA balance skyrocketing into the millions due to haywire interest calculations.

1.8 What are the special year 2000 problems about tape archives? [10]

Take a close look at the file creation data attached to most files.

Will backup/archival system be able to tell when a file was created? Is a file with a creation date of 01/01/00 to be moved off to backup ... possibly erased because it has not been used since 01/01/1900?

What is the DOS BIOS problem? Why does the BIOS date (year) seem to roll from 1999 to 1900? And why does DOS (and Win95) seem to change the BIOS date to Jan 4, 1980

This is just a test. It'll only take five minutes.

Set the date on your PC to December 31, 1999. Set the time to 23:58 (11:58 pm) and then *power off* the computer (this is the crucial part). Wait at least 3 minutes and then turn the PC back [illegible]. Check the date and time. It should [illegible] minute or two past midnight, on the morning of Saturday, January 1, 20[illegible]. My PC responds with January 4, 19[illegible]. Yours probably does, too.

On Jan 1, 2000, more than 80 m[illegible] PCs will think the Berlin wall is [illegible] standing. All your applicati[illegible] spreadsheets, accounting packa[illegible] day-timers, e-mail systems, [illegible] backup cycles will be at risk a few [illegible] from now, unless you solve the prob[illegible].

Peter de Je[illegible]
<dejager@year2000.com>

I guess the problem is ROM BI[illegible] related. But different BIOSes ha[illegible] the problem differently. Just what [illegible] need in a large shop with 11,000 [illegible].

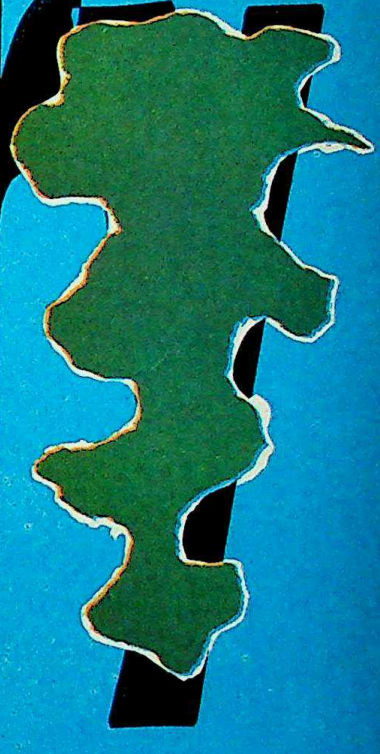
Taylor, Ro[illegible]
<TAYLORRG@ofc004a.sce.ne[illegible]>

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

power

hungri



're looking for a little more
to your PC, you couldn't do
an to tune in to us. PC Quest is

vibrant, alive network that gives you helpful inputs on everything from choosing the right package

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

to the best peripherals available. So to get more out of your PC, start with getting a PC Quest.

MORE POWER TO THE COMPUTER USER

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YES, I would like to avail of this offer & become a subscriber of PC Quest. I want to subscribe for

	TERM	STAND PRICE	YOU PAY	YOU SAVE
❑	3 Years	Rs. 900/-	Rs. 630/-	Rs. 215/-
❑	2 Years	Rs. 600/-	Rs. 450/-	Rs. 150/-
❑	1 Year	Rs. 300/-	Rs. 240/-	Rs. 60/-

Foreign Subscription Rates
By Air Mail
1 Year US $ 60/-

Enclosed is my cheque/DD No. _____ dated _____
for Rs. _____ drawn in favour of **CYBER MEDIA (INDIA) LTD.**
(Add Rs. 15/- for outstation cheques)

From :

Name: _____ Designation : _____
Organisation _____
Address : _____
_____ City: _____ Pin: _____
Phone: _____ Fax: _____

Mail Back to : Cyber Media (India) Ltd., 701, Meghdoot Building, 94, Nehru Place, New Delhi-110019
Ph. : 6416315, 6476664, 6411692. Fax : 6476664.

Please help us get to know more about your needs by filling in this form.

A. YOUR JOB TITLE

- ■ MD/President/CEO/Director
- ■ Manager/Asst. Manager
- ■ Cust. Engg./Executive
- ■ Any other_____
- ■ VP/GM
- ■ Analyst/Programmer
- ■ Consultant/Trainer

B. YOUR WORK AREA

- ■ MIS/Computers/Communications
- ■ Marketing/Sales/Gen. Mgmt.
- ■ Any other_____
- ■ Purchase/Finance/Admn.
- ■ Education/Training

C. YOU WORK FOR

- ■ An. I.T. Company
  WHICH IS IN...
- ■ Govt. Sector
- ■ Private Sector
- ■ MNC
- ■ A User Company
- ■ Public Sector
- ■ Education / R&D
- ■ Any other_____

D. IF YOU WORK FOR AN I.T. COMPANY, IT IS PRIMARILY IN

- ■ Hardware
- ■ Distributor/Retailer/Dealer
- ■ Training/Consultancy
- ■ Software Development
- ■ Peripherals
- ■ Any other_____

E. YOUR ROLE IN PURCHASE OF COMPUTERS

- ■ Approving
- ■ Defining Specifications
- ■ None
- ■ Recommending
- ■ Purchase Formalities

F. PLANNED PURCHASE (NEXT ONE YEAR)

- ■ PCs
- ■ Lan/Data Comm. Equipment
- ■ Software Packages
- ■ Any other_____
- ■ Servers
- ■ Custom Software
- ■ Peripherals

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Y2K Problem: UNIX and C

Here are some suggestions for the UNIX and C world.

• Always use standard library calls. Use strftime(), even if you think it's a waste of time since it's so easy for you to do the conversions yourself.

This way if there is a problem, it's in one place (strftime) and it will be much easier to fix. If you use "sprintfs" or direct string manipulation, changing the code is *much* harder.

• If you have to write your own time functions, keep them in a single place. C++ is very good at this; I have some database management routines which keep meteorological data in files with names based on the date; I have essentially only *one* procedure which does the conversion from date to filename.

• Try to use 4-digit years. If you use two-digit years, be sure to *always* print only the last two digits. For instance, if you decide to ignore #1 and write the code yourself use:

```
::printf ("%2d-%2d-%2d",
tm->tm_year % 100, 1 + tm-
tm_mon, tm->tm_mday);
```

instead of

```
::printf ("%2d-%2d-%2d",
tm->tm_year, 1 + tm->tm_mon,
tm->tm_mday);
```

Simply putting these practices into effect, and correcting existing code during maintenance, will do wonders. If time allows (which, with most management, will be after Thanksgiving 1999) you can also "grep" for usage of terms like "tm_year" to try to find any uncorrected source code.

A potentially very serious problem is the use of the UNIX seconds-since-01-01-1970 ("time_t"):

UNIX maintains the "time_t" date as a signed 32-bit integer containing the number of seconds since midnight, 01-01-1970 GMT. Strictly speaking, you are not supposed to do arithmetic on "time_t" objects, but that rule is often ignored.

19 Jan 2019 03:14:08 GMT: rollover

By my calculations, the largest positive value in a signed 32-bit integer is 2^31-1 = 2147483647 seconds, or a little over 68 years. The base year 1970 + 68 is 2038, not 2019.

```
(2147483647 s) / (60 s/m * 60
m/h * 24 h/d * 365.25 d/y) =
68.04965038533 years, approxi-
mately ;-)
```

I know, I know, 365.25 is not exactly correct, depending on how many leap years versus non-leap years are spanned by the interval in question. That's why we need to have standardized date routines to do all these calculations.

Note that negative times *are* allowed. The man page for ctime(3) in HP-UX version 9.0 states that a time value of -1 is Dec 31, 1969 23:59:59!

The date(1) command on HP-UX only accepts 2 digit years to change the system clock.

I would rank this as being potentially more serious than Y2K. UNIX is heavily embedded in our infrastructure, and this format is now standard for most C/C++ programs. That means it is extremely widespread.

There will undoubtedly be proposals to extend this type to 64-bits well before 2019, but we're talking about a heavily installed base in telephone switches, satellite controllers, etc.

UNIX time structure ("struct tm"):

UNIX/ANSI C also defines a "struct tm" structure for broken-out time fields. The year is offset from 1900; some libraries have improperly handled years outside of the range [00..99] .

Also, *many* application programs have problems with this. Some accept "100" to indicate 2000. Some will print back dates like "01-01-100" (instead of "01-01-00"). Others will complain about your ignorance— years should be two digits only.

Other than that, this time structure has no meaningful "important" dates. Who cares if the year will roll over in 2 billion years?

The standard C library from a major vendor (Sun?) had an interesting failure mode. I specified a date in the 21st century and asked it to give me the ASCII equivalent.

I expected:

07-04-12

What I got was:

07-04-;2

(or something to that effect.)

Conjecture: the library code was "optimized" and year-to-string fields were handled as:

```
*s++ = '0' + tm->tm_year /
10; *s++ = '0' + tm->tm_year
% 10;
```

where "tm->tm_year" is part of one of the standard Unix time formats. The "year " information is an offset from 1900.

This works fine provided the "tm_year" field is in the range 00..99, but blows up on years outside of this range.

I reported this to our systems people; later tests verified that the software had been fixed.

There have been others, but as I recall they were generally local code, not system-level libraries. Or previously reported misinformation— I've had people become extremely hostile to claims that 2000 is a leap year.

Bear Giles <bear@fsl.noaa.gov>

I have tested my own three PCs. Two system fail—both clones. But my 10-year-old PS/2 Model 60 passes all the tests 100 percent! It even has YYYY/MM/DD. In the early day's everyone knows that this PC was too expensive. Nowadays is the machine I use for my networking.

Hans <J Goossens@inter.nl.net>

What is the potential social impact of the Y2K problem?

How stable can your year 2000 software project team be, when the company down the street is in the same predicament and offers huge 'incentives' to your staff to jump ship and help them?

Expect computer programmer salaries to skyrocket as the deadline approaches (high demand and low supply).

Many firms may have large numbers of computer tapes and files unexpectedly erased due to automated systems that haven't been told that time has reversed! Fallout from this is difficult to predict. Probably these same firms will try to

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

hire more of those overpriced programmers. Yum Yum!

If you can't get your accounting system up and running in three months you're out of business. Today's organizations cannot survive three months without cash flow.

Yes, there will be a run on the banks as companies get desperate for cash advances. This is a bad thing.

Assume you have the very best and the very brightest and your system is up and running in a week (loud laughter from the back of the room). How can you survive when a large number of your vendors and your customers are going under? A large depression could result from a large number of business failures. Now all of those overpriced programmers are back on the streets. This could be a very bad thing .

Possible stock market crash?

Add to this the fact that supermarkets could have utterly bare shelves on 4 January 2000 because of the **biggest party**.

And the fact that their ordering system might go haywire. They might even go the other way and order 99 years' worth of supplies, but nothing comes in, due to all of their suppliers' computers being off-line.

What standards exist for computer representation of dates? Where can I get copies of these standards? Are they available on the Internet?

As someone once said, "The great thing about standards is that there are so many to choose from."

Both the American National Standards Institute (ANSI) and the International Organization for Standardization (ISO) have stan... for computer representation of ... Unfortunately, both standards a... number of different formats, inc... some formats that have only two ... for the year.

The ANSI standard is ANSI X... 1985 (R1991) "Representation ... Calendar Date and Ordinal Da... Information Interchange." The ... standard is ISO 8601:1988 "... elements and interchange form... Information interchange Rep... sentation of dates and times."

The text of ANSI and ISO stand... are not on the Internet. They ... copyrighted documents that you ha... to buy, and the prices are exorbit...

Both ANSI and ISO have on... catalogs that you can access and se... on the World Wide Web. You can ge... the catalogs, and other informa... from each organization's home pag...

ANSI http://www.ansi.org ISO ...
www.m...

You can order both ANSI and I... standards from ANSI by calling ... 642-4900 between 8:45 a.m. and ... p.m. Eastern time. They a... MasterCard, Visa, and Amer... Express. For more detail and other w... to order, see the ordering inform... accessible from their home page. ... ordering information seems to say ... you have to have a deposit accoun... them to order by phone, but the... accept credit card orders.) From the ... home page you can find out who ... ISO standards in other countries.

ANSI X3.30-1985 (R1... "Representation for Calendar Date ... Ordinal Date for Informa... Interchange" is two pages and ... $14 plus $4 handling.

ISO 8601:1988 "Data elements ... interchange formats Information ... change Representation of dates ... times" is 14 pages and costs $45 ... $5 handling.

(Prices as of September 1995

Originally created by John ... maintained, edite... copyright Robert J. S... <70023.2572@ compuserve.c... Reproduced with permission. U... available on the Year 2000 Home P... http://www.year2000.com/ maintai... Peter de Jager <dejager@year2000...

In 1992 Mary Bandar, aged 104, of Minnesota, USA, was invited to join kindergarten class because she was born in '88!

In 1990, a 107 year old woman in Denmark received a letter from the local school system welcoming her to first grade. A man of 103 checked into a US hospital and was assigned to the paediatric ward.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVERTISERS - INDEX

This index is to help you in locating a particular advertisement in this issue. However, if you want further information on any product/service advertised in here, just put the appropriate code number in the 'Reader Query' card and mail it back to us. We will forward your query to the concerned company.

Code No	Company	Page
3001	AABHA	17
3002	ADROID TECH	138
3003	ALBIT ELECTRONICS	148
3004	BINARY SEMENTICS	35
3005	BENCH MARK	36, 37
3006	BASE MEDIA	63
3007	BINARY SEMANTICS	191, 183
3008	CREATIVE DATA	145
3009	CORAL S/W	101
3010	C-DAC	120, 121
3011	COMPUTER WARE	76
3012	CORAL S/W	167
3013	COMPU COVER	82
3014	CHAMPION	179
3015	DIGITAL	8
3016	DATAPRO	64, 78
3017	DIGITAL WORLD	87, 89, 90
3018	DATEX	97
3019	ELENT	56
3020	ELNOVA	67
3021	EDP CORPORATION	168
3022	EDP AIDS	106
3023	FIFTH GENERATION	98
3024	FUTECH	103
3025	GOLD STAR	11
3026	GODREJ	28, 29
3027	HP	125, 127, 129, 131, 133, 135, 213
3028	HS TECHNOLOGIES	152
3029	INDUSTRIAL ADART	122
3030	INFOSYS	18
3031	INNOVATIONS	175
3032	INT. EQUIPMENT	188
3033	KIRLOSKAR	196
3034	KUNHAR PERIPHERALS	48
3035	LAN	2, 3
3036	LINEAR & DIGITAL	66
3037	LOTUS	109, 111
3038	LIPI DATA	164
3039	MULTITECH	1FC
3040	MICROSYS	4
3041	MODI XEROX	6, 7
3042	MAX	143
3043	MODULAR	159
3044	MICRO WARE	172
3045	MEDIA TECH	180
3046	MAKHAN LAL	196
3047	N&N	84, 85
3048	NIC	184
3049	ONWARD	68, 69
3050	ORACLE	41
3051	PHILIPS	15
3052	PUSTAK MAHAL	21, 23
3053	PRIYA INTERNATIONAL	25, 34, 47, 104
3054	PEUTRONICS	94
3055	PROLAND	100
3056	PAREKH	156
3057	PUSHPAM	160
3058	QUANTUM SYS	176
3059	REDINGTON	33
3060	RADIANT	133, 115
3061	REAL TIME	155
3062	RADIX	144
3063	SOFTEK	19
3064	SAMTECH	150
3065	SAN TELEQUIP	60
3066	SAMTEL	71, 73
3067	SVAM S/W	75, 117
3068	SPSS	80
3069	SONATA	93
3070	SOFTMART	141
3071	SOFTEK	163
3072	SOFT LINK	171
3073	SUPERTIMERS	187
3074	SQL	194
3075	SEIMENS	199
3076	TUL	13
3077	TVSE	27, 43, 59, 192
3078	TISL	52, 53
3079	VERTEX	1
3080	VISION INFOTECH	146
3081	ZENITH	214

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MICROCHIP's PIC MICROCONTROLLER DEVELOPMENT TOOLS FROM
PARALLAX & AND TransMAC
- Assemblers
- Simulators
- Programmers
- In-circuit emulators and the
- BASIC Stamp products

Available in India from:
AL SYSTEMS
9/35 Dr. NANJAPPA ROAD,
P.O. BOX 3990, COIMBATORE - 641 018.
Phone:(0422) 232561; Fax:(0422) 213849

Good bye CVT
Welcome SPC
EVERON
Presents
STATIC POWER CONDITIONER
- Compact & Light Weight
- Silent & Cool Operation
- Generator Friendly
- Efficient & Low Cost

EVERON SALES & SERVICES
Everon House, 551A,Chirag Delhi,
New Delhi-110017
Ph.: 6221525, Fax: 6479426
Wanted Dealers

- Full range of Printer Spare, TVSE Epson, Wipro, L & T available at lowest rate.
- Repairing of Dotmatrix Printer, Printer head, Motor.
- Logic Card, SMPS, Stepper Motor gear, Knob L.C., Head Cable Bush Tranformer.

MC TECH SYSTEMS (PVT) LTD
- 114 Mansarover 90 Nehru Place New Delhi-19 Ph. : 6222591
- 7255 Ajindra Market, IInd Floor, Shakti Nagar Chowk, Delhi-7 Ph. : 2523470, 2912809

AutoTex 3.4
FOR MS-WINDOWS 3.1
CAD SOFTWARE FOR TEXTILE DESIGNING

SALIENT FEATURES
- Any size of graph or design. Scan, draw or import designs in PCX, BMP, TIF formats.
- Create and use any weave.
- Powerful drawing and editing features.
- Many other textile designing utilities.
- Industry specific printouts for Knitwear, Laces, Carpets, Jacquards etc.
- Graph printout as per the card cutter.
- Colour reduction and colour separations.
- View and print woven result simulation.
- Support for computerised card punching machine and electronics jacquards.

DEMO PACAKAGE : Send Rs. 500/- by DD
AUTOPUNCH–OUR COMPUTERIZED CARD PUNCHING MACHINE IS READY
PERSONALIZED TRAINING CENTRE OPEN

APPLICATIONS
- Furnishings
- Upholstery
- Dress Material
- Sarees
- Bed Covers
- Towels
- Plastic Mats
- Carpets
- Durries
- Blankets
- Lables
- Knitwear
- Laces
- Table Mats
- Suiting & Shirting
- Printed Fabrics

PLC SYSTEMS HOUSE
PLC Consulting Company
Gwalior House, 37 Rajpur Road, Delhi - 110 054, INDIA
Ph: 011-2510320, 011-2522383, Fax: 011-2929917
E – mail : avinash.plc@axcess.net.in Tlx: 031 78209

COMPUTER RIBBONS
Available Excellent Quality Empty Cassettes of various types, Microprocessor controlled Automatic Ribbon Refilling Machine with Refill Packs MFG, INKING Machine for White Nylon Fabrics, etc.
Contact / Write :
TRACK ENGINEERS
317, Ramgopal Industrial Estate,
Dr. R. P. Road, Mulund (W), Bombay-80
Tel: 5671558, 5340446
TLX : 011/72389 TCWE IN
FAX : 91-22-5349070.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

I'm sitting back in the Operations Armchair, watching the computer room closed circuit TV, which just happens to be connected to the frame-grabber's video player (sent off for repair, due back some time in '97) when the phone rings. It must be the second time today. It's really starting to get to me.

"Yes?" I say, pausing the picture.

"I've accidentally deleted my CV!" the voice at the other end of the line says.

"You have? What was your username?"

The fool tells me. What the hell, I *am* bored.

"Ah no, you didn't delete it—I did."

"What?"

"I deleted it. It was full of shit! You didn't even get more than a B- in any of your subjects!"

"Huh?"

"And that crap about being a foreign exchange student, that was your girlfriend and we both know it!"

"Huh?!!"

"Your academic records. I checked them, you were lying..."

"How did y.." He clicks. "It's you isn't it? The bastard operator from hell?"

"In the flesh, on the phone and in your account.... You shouldn't have called you me. You especially shouldn't have given me your username.." *clickety click* "Neither should you have sent that mail to the System Manager telling him what you think of him in such specific terms..."

"I didn't send any.."

Clicketyclick.....

"No, you didn't did you? But who can tell these days? Not to worry though, It'll all be over VERY soon.." *clickety click* "..change my username back, and..."

"B-b-b.." he blubs, like a stood-up date

"Goodbye now" I say pleasantly, "you've got things to pack and a life to start over..."

And hang up.

Two seconds later the red phone goes. I pick it up, it's the boss. He mumbles the username of the person I was just talking to, mentions something about a nasty mail message, and utters the words "You know what to do...", with the dots and everything.

The phone rings again.

"Hello?"

"Hi there," I say.

"Is this the Operators?"

"Yes it is" I say, nice as pie.

"Could you get my printouts out please. I need them urgently. I printed them over 5 minutes ago."

"Your username?" I ask

He gives it to me, and I write it down for later. "No worries at all!" I say, and head to the printers.

There's a HUUUUUUUGE pile of printouts there, and sure enough, his is at the top of the pile. I pick it up, split it out of the rest and pour our ink-stained cleaning alcohol all over it, run it over a couple of times with the loaded tape trolley then slam it in the tape safe door some times as well.

Beautiful.

"Here's your printout" I say "Sorry about the delay, we've got a few printer problems."

He takes a look.

"Well, can I print it again?" he asks, worried

"Sure you can" I say "But no promises, the printer's a bit stuffed today"

"Well can I print it on laser—is that working?"

"Yeah of course, but that'll cost you" I say, oozing compassion for the geek.

"It doesn't matter about the cost, this is *urgent!*"

I slide-on back into the printer room and put in the toner cartridge we save for special occasions—the one that prints thick black lines down the middle of the page and is all faint on one side. It took me quite a while to make it like that too. The printout shoots through and I bring it out immediately—I don't want to miss this!

"W-w-what's happened to my printout?" the geek squeals at me. Lucky I wrote that username down—I'm really starting to develop a taste for torture.

"Well nothing. I mean sure, it's a little soiled, but that cartridge has already done 47 thousand pages and been refilled 17 times. It's quite good compared to some we get."

Geek pays up and starts blubbing.

"Hey now. There's no reason to cry! Have you got a disk with your work on it?"

He gives me a box of diskettes and I step inside and run them across the bulk eraser. I come back out again.

"Sorry, I just remembered, our machine is on the fritz, you'll have to take these to the other side of campus to the machine there, it'll print them ok, and it had a brand-new toner yesterday."

"GREAT!"

"No worries. Oh, and hold the disks above your head the whole way there, the earth's magnetic field is particularly strong today."

"Huh?"

"No arguments, just do it."

He wanders off, hand held high. Shit, I hate myself sometimes!

John W Fox. From the Internet

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The BOFH Chronicles

The Bastard Operator From Hell recounts the basics of file management

Ring, ring...

"I need more space," says the user on the phone.

"Well, why not move to Siberia?" I ask.

"No, on my account, stupid." Stupid? Uh-Oh.. "I'm terribly sorry," I say, so polite it hurts. "I didn't quite catch that. What was it that you said?"

I smell the fear coming down the line at me, but it's too late, he's a goner and he knows it.

"Um, I said what I wanted was more space on my account, *please.*"

"Sure, hang on"

I hear him gasp his relief even though he'd covered the mouthpeice.

"There, you've got *plenty* of space now!"

"How much have I got?," he simps

Now *this* really bugs me. Not only do they want me to give them extra space, they want to check it, then correct me if I don't give them enough! They should be happy with what I give them and that's it.

Back into Jimmy Stewart mode.

"Well, let's see, you have 4MB available"

"Wow! 8MB in total, thanks!" he says, pleased with his bargaining power.

"No" I interrupt, savoring this like a fine red at room temperature, with steak, extra rare, to follow; "4 MB in total..."

"Huh? I'd used 4MB already, How could I have 4MB available?"

I say nothing. It'll come to him.

"aaaaaaaaaaaaaaaaaaaggggggghhhhhH!"

I kill me; I really do!

I'm sitting at the desk, playing X-tank, when some thoughtless twit rings me on the phone. I pick it up. "Hello?" I say. "Who is this?" they say. "It's me, I think" I say, having successfully attended a telephone skills course. "Me Who?" "Is this like a knock-knock joke?" I say, trying any thing to save myself having to end this game.

Too LATE! I get killed.

Now I'm bugged.

"What can I do for you?" I ask pleasantly (one of the key warning signs).

"Um, I want to know if we have a particular software package..."

"Which package is that?"

"Uh, B-A-S-I-C it's called."

click-click d-e-l b-a-s-i-c-...

"Um no, we don't have that used to though.."

"Oh. Oh well, the other thing wanted to know was, could contents of my account be co... tape so I have a permanent ... them to save at home in ca... worst happens..."

"The worst?"

"Well, like they get deleted or some..."

"DELETED! Oh, don't worry about t... have backups! What was your username?"

He gives me his username. (What a... *clickety click*

"But you haven't got a... in your acco... say, mock s... leaping fro... vocal chords

"Yes I hav... must be loo... the wrong g...

So first he ... ny X-tank ga... ...w he's call... ar...

clickety click

"Oh no, I m... ...nistake" I say

Did he mutter... cal" under his ... ??!? Oh dear, oh

"I meant to say: That user doesn't ...

"Huh? [whimper] it must do, I w... using it this morning!"

"Ah well, that'll be the problem, th... a virus in our system this morning, th... da Vinci virus, wipes out users who ar... in when it goes off."

"That can't be right, my girlfriend was ... in, and I'm in her account now!"

"Which one was that?"

He tells me the username. Some peo... learn...

"Oh, yeah, her account was just ... discovered the virus." *clickety click* "... lost all her files"

"But..."

"But don't worry, we've got them a...

"Oh, thank goodness!"

"Paper tape. Have you got a ... glass and a pencil?!"

Oh, this is heavenly.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

SHYAM MALHOTRA
PRASANTO KUMAR ROY
GOVIND MENON
ASAWARI KETKAR
MOHAN SINGH BIST
ATUL CHITNIS
GAUTAMA AHUJA
VIJAINDER K THAKUR

VENAYAK BHATNAGAR
ASHOK GUPTA
RAJINDER
MADAN M SINGH
ANIL KUMAR BHATIA

ARUN SHANKAR
REMA MARAR
PAL SINGH
T SRIRENGAN
DIGAMBER PRASAD
JOSE PM
ALOK KUMAR SHARMA
VIJAY NAGRATH

E ABRAHAM MATHEW
BALAJI N
SRINIVAS AGNIHOTRI

HOSHIEDIAR GHASWALLA
SUDHIR VALVARA
RUPA L NATHANI

PARTHA P BANERJEE
SUJATHA KRISHNAMURTHI

T N PRABHU
MEGHNA RELAN
YOGESH WADHWA

KRISHNA RAO
S SUBHA

ANIL KUMAR R

Published by Pradeep Gupta on behalf of Cyber Media (India) Ltd, 510 Meghdoot, 94 Nehru Place, New Delhi 110019. Phone: 6413908 TLX: 031-71344 INDQ. and printed by him at Sahara Print Communications, C-2, Sector 11, NOIDA 201301.

Annual subscription:
Rs 240 (1 Year) Rs 450 (2 Years) 630 (3 Years).
US $75 for outstation cheques).
US $ 60 (airmail).
Payments favouring: CYBER MEDIA (INDIA) LTD.

Distributors in India: Mirchandani & Co, Bombay.
All rights reserved. No part of this publication may be reproduced by any means without prior written permission.
PC QUEST is not responsible for unsolicited manuscripts.
Phone: 011-6221734 [Modem: 14,400 bps, N81]
Email: pcq@giasbx01.vsnl.net.in
Printed at: PCQ

LEADING EDGE

PRASANTO K ROY

The Pentium Goes Entry-Level

The Pentium isn't new. But toward the end of the financial year just gone by, and despite a plethora of Pentium jokes all over the Internet, it began to take over the Indian market. The Rs 50,000 level is always a benchmark, and for that you now get an entry-level spec for a Pentium PC from low-end brand vendors, or, as we see in this issue, build one up to a good working spec even after buying subassemblies at list price, legally, with receipts.

This level marks a threshold: this is when you stop buying older hardware, except for really spectacular bargains. If you're planning to buy a PC, a 486 is not the one to go for any more. Even if you're on a budget and looking for a non-Windows PC for DOS word processing, an inexpensive Pentium with 2 MB of RAM is something you can very easily upgrade later, and the price difference with a 486 isn't worth mentioning. For office use, a diskless Pentium node on a LAN goes cheap—and is a good investment.

So only if you're getting a basement price on a 486/75 type of machine, and you're willing to live with probably never upgrading, should you consider that option. Naturally, the same applies even more strongly to 386 systems. If you can find one in the market, it's old stock. Don't bother. Unless the price is earthshaking, like under Rs 10,000 for a full system—and if you've got a long-term, low-end application to match.

What about the Pentium-killer clone chips we heard quite a bit about in 1995-96? Most were stillborn, at least as far as actual production went. Few could keep promises of early-1996 shipments. In fact, the first "Pentium compatible" competitor chip has begun to ship only now—in April. Advanced Micro Devices is delivering its AMD 5K86 in volume, after spending $100 million on R&D. The 75 MHz "K5" will sell for $75, about $30 less than what Intel charges for a similar chip.

In 1994-95, Indian users bought nearly 235,000 PCs, 65 percent more than the previous year. Just over half were 486 systems, and most of the rest, 386 PCs; and they didn't touch the 286. The 1995-96 figures won't be in until months later, but PCQ estimates put the numbers at over 390,000. And in the year that we've just begun, we will see sales of over 650,000 PCs, over half of them Pentiums; the 386 will have vanished. And we'll be well on course toward the landmark of users buying a million PCs a year by 1998.

When David Packard died on March 26 at Stanford, the legacy he left behind included not just his $31 billion megacorp, but California's infotech industry itself. The small Palo Alto garage where he started Hewlett-Packard in 1939 with fellow-freshman Bill Hewlett is recorded as the birthplace of Silicon Valley.

The garage operation has turned into a 105,000-people company whose name is a brand synonymous with quality. And Packard and Hewlett are remembered for their unique "management by walking around," and the corporate culture, "the H-P way", that they created and which was so widely copied.

Packard was evidently the rare combination of a hands-on, down-to-earth person of high ethics, a pioneer with a willingness to listen, and a sound businessman. And so there was genuine emotion, not empty tributes, from the chiefs of Silicon Valley, many of them H-P veterans. As one put it, Silicon Valley's companies are all little H-Ps..."a piece of H-P is embedded in many of our corporate cultures."

PKR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The new Sportster Vi with personal voice mail. Guaranteed to leave the competition speechless.

You've heard a lot of modem-talk. So isn't it time you heard a modem talk? The new Sportster Vi 14,400 bps faxmodem from USRobotics with Personal Voice Mail, which accepts and digitally records your incoming voice messages.

The Vi also signals alphanumeric pagers, supports caller ID, automatically detects incoming fax calls and delivers fax on demand. Plus, with its new VoiceView protocol by Radish Communications Systems, you can actually send data during an ordinary voice call.

The Sportster Vi, like all USRobotics products, features award winning quali which has made USRobotics the larges selling modems in the world. The USRobotics range not only includes modems (external and internal), but other access products like PCMIA, network managed systems and ISDN products.

USRobotics is brought to you by Microsense - who offers and supports everything in modems, communicatio software and other access products.

For more details about the Sportster Vi modem or other models in the USRobotics range, do the obvious. Talk to us.

USRobotics
from
MICROSENSE

USRobotics, the USRobotics logo and Sportster are the registered trademarks and Sportster Vi is a trademark of U.S. Robotics Inc. of USA. VoiceView is a registered trademark of Radish Communications Systems Inc. USA

Microsense Computers Pvt. Ltd. • **Bombay:** 808, Embassy Centre, Nariman Point, Bombay 400 021. Tel: (022)2872948, 2831489, 2825441, 2836642 Fax: Email: bomaad90@giasbm01.vsnl.net.in • **Delhi:** 1, Community Centre, East of Kailash, New Delhi 110 065. Tel: (011)6410134, 6465855, 6470619-20 Fax: Email: DELAAB30@giasdl01.vsnl.net.in • **Madras:** 5/D, J.P. Towers, 7/2, Nugambakkam High Road, Madras 600 034. Tel: (044)8276469, 8256529, 8233080-81 Fax: Email: MDSAAA33@giasmd01.vsnl.net.in • **Secunderabad:** 2nd Floor, Emerald House, Sarojinidevi Road, Secunderabad 500 003. Tel: (040)845008,846266, 844781 Fax: Email: bomaad63@giasbm01.vsnl.net.in • **Bangalore:** 209, 2nd Floor, Richmond Tower, Richmond Road, Bangalore 560025. Tel: (080)2210816, 2218037, 2273558-9 Fax: Email: bomaad64@giasbm01.vsnl.net.in • **Calcutta:** AD, 161, Salt Lake City, Calcutta 700064. Tel: (033)3213791, 3213870. Fax: 3376290. Email:CALAAA36@giasbm

Dealer/OEM Enquiries Welcome

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

REAL CAMERAS

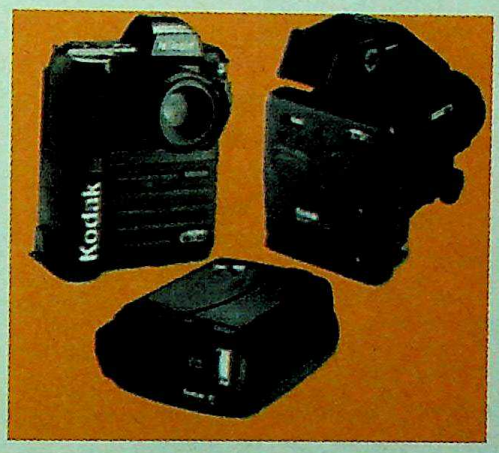
read with interest your w of the Logitech Foto- Pixtura in January, as s the letter from Digital ys and your reply in ders Forum, February. As rld photographer long wer by the virtues of an camera, I can empathize PKR's disdain for a 4,000 camera that is es- ally "point and shoot", a digital one. I don't about Digital Infosys, this is priced way out of each of most Indian pho- phers (amateur or oth- et, and that too for a era unsuitable for any s still photography. e Pixtura reportedly for about $850 in the At an effective conver- rate (including appli- duties) of Rs 55, the ra should cost less than 0,000, instead of the Rs 83,995? Despite sions, computer peri- als are still subject to an bly high taxation. As t were not enough, In- distributors too are g the price increase r. At this rate I doubt if will sell more than 100 cameras in India.

for your reply to Digital e, I would like you to that there are several SLR cameras ranging 35mm through medium ge formats. Although, are no regular retail in India, they can still ured through proper ls. The cameras most to be of interest are ally high-end Nikon cus SLRs where the r camera back is re- with a digital back. Kodak DCS-420 is ally a digital back on the Nikon N90 autofocus SLR, with Kodak's own CCD chip capable of capturing 36-bit color images at a resolution of 1,524 x 1,012 pixels, and with most of the N90's functions. The digital back also includes 105 MB data storage (PCMCIA-ATA) and a built-in mic for sound recording. The more advanced Kodak DCS-460 has a similar configuration but with a 3,060 x 2,036 pixel resolution.

The Nikon E2 and Fujix DS-505, on the other hand, use Nikon F4 bodies with a digital back offering 1,280 x 1,000 pixel resolution. But even the best digital camera cannot match the resolution of 35 mm color film (estimated at 10,000 x 6,000 pixels per frame of 36 mm x 24 mm), although the DCS-460 reportedly produces pictures good enough for publication.

But are such cameras truly affordable? At about $13,000 and above (the DCS-460 costs about $28,000) without lenses, these are expensive even in the US. However, media professionals and studios keen on digital imaging can often afford the price, and to them these offer better choices than the Pixtura. As consumer electronics trends have shown, the cost of making CCD devices is bound to drop as demand increases, technology advances and large-scale chip manufacture is streamlined. Digital point-and-shoot cameras for under $500 are available abroad, and Kodak is reportedly striving for one under $300.

But how about affordable digital backs for some of the high-end SLR cameras many of us already own? I am not a media professional, but still cherish the idea of a digital back for my Nikon N801, simply because I am an advanced amateur photographer and a personal computer buff at the same time. Even in India, I am sure there are a lot of people sharing the same interests. If Kodak could do it for the Nikon N90, I wonder what is preventing them from



doing the same for the Nikon N8000s, or for that matter, the F3 or other models. If digital backs for these cameras were available, those owning such models would also be able to upgrade their cameras to include digital recording capabilities without buying another expensive camera body, marking a huge increase in the number of potential buyers. Wake up, Kodak, Fuji, Chinon, Casio, Sony, Logitech et al!

Subhendu Joardar
Calcutta, WB

BENCHMARK SOFTWARE

✉ At the information systems division of Sri Vishnu Cements, we're looking for software tools to benchmark various hardware components. Could you please give me this information?

Anantha Ramaiah PV
Hyderabad, AP

You haven't specified the hardware platform. For PCs, there's a large number of diagnostics available on the Internet, such as the Z-D Lab benchmarks for PCs, network nodes, and LAN servers. You can also buy the Norton Utilities, which contains the System Information program for a quick check. More detailed checks are available in other commercial diagnostic utilities such as QA Plus and CheckIt.

One comprehensive set of utilities which we occasionally use at our Labs is AMI Diags. You can buy the AMI Diags package from: Megasoft Systems Pvt Ltd, 223, Bomikhal, PO Rasulgarh, Bhubaneswar 751010, Orissa, Tel: 674-481737 Fax: 674-481737.

—Ed

PUZZLING PAGINATION

✉ I have been reading your magazine for the last couple of years now and have found it very beneficial in terms of improving computing power in our organization. I am especially impressed with PCQ Labs because compared to other magazines which reproduce reviews done in the labs of foreign magazines, your magazine does a thorough job and gives us an exact picture of various computing solutions available.

Meanwhile, I would like to mention the strange way in which you number your pages. Your September issue had Leisure/Tech Talk

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

starting on page 192 and continued on page 191. Similarly, in the October '95 issue, you had "Online Netwatch" on page 172, continued on page 44. I feel it odd to read the main article on one page and then leaf back for the rest of the article.

Premnath S Kudva
Mangalore, KT

Almost invariably, published articles progress in the natural order of increasing page numbers. There are two exceptions. In the two-page leisure columns which includes the last page, the column is started on the last page. The reason is that studies have shown that the last page is often the first one readers turn to when they open the magazine! So rather than have this page feature the second page of an article, we make it the first page—and continue inside.

The other exception is rare—when a review or feature exceeds the space available, and it's too important or informative to cut down—and there's some space available elsewhere in the magazine, possibly earlier. In such a case, we could continue the feature on that earlier page, but with a clear "Continued on page..." line.

—Ed

COURT JUDGEMENTS DATABASE

✉ This refers to Manpreet Singh Sood's query in these pages in January, about software that can store court judgements reported in various law journals. The judgements are to be first classified by acts, which open into different sections, each with sub-divisions. The sections or sub-divisions contain the cases with their judgements and abbreviations.

We have a package called SUPREME that does just that and more. It also allows you to cross-index cases so that you can find a single case where multiple acts and laws apply. This is essential because there are many cases which refer to more than one act and section. Many advocates of the Calcutta High Court have installed this software in their personal computers and are quite happy with the product.

The system requirements are also minimal. It requires a computer with at least a 80386 processor with 8 MB RAM and VGA, and Windows 3.x. To store 50 years of case laws takes about 100 MB of hard-disk space (at 6,000 case laws per year).

SUPREME costs Rs 13,500 per copy.

Somnath Ukil
Quint Software Solutions,
EC-5, Sector 1,
Salt Lake City,
Calcutta 700064, WB
Tel: 33-3343538

✉ The Y2K problem, in my opinion, as discussed in your January issue, seems to be disastrous. All computer aided mechanisms running on the dates between 31/12/99 and the beginning of 2000 at midnight (say 01/01/00) may start giving false signals and even the possibility of automatic [missile launches and explosions] can't be set aside.

SP Sharma
Bhatinda, PB

✉ I have a 486/DX2 machine at my place. I performed the Y2K check on my machine by setting the date to 31-12-1999 and time to 23:58 hrs. The machine was set off and when I turned on the machine after 4-5 minutes, the system date was 01.01.1980. Then, I set the date to 01.01.2000 and time to 23:58 Hrs. The machine was again turned off and was turned on after 4-5 minutes. To my surprise I found the date as 02-01-2000.

If the date is set manually on 1st January, 2000, the system will take care of incrementing dates. Maybe your machine behaves the way mine did.

Manjeet S Kalsi
Chandigarh, PB

Yes, the date can be manually set, correctly. In fact, you can leave your PC on through the transition to 2000, and things will be okay. The trouble is that millions of networked computers and the apps running on them will be affected in different ways, many of them with financial or other critical apps. The problem isn't a technological one so much as a management one, at this stage. Individual PCs at home may indeed be affected, but the consequences of this are not going to be significant.

—Ed

NETSTUFF ON CD

✉ I have been a regular reader of PC Quest for the past two years. It's a great idea to distribute a free CD-ROM every quarter.

It would be nice if you could put these on your future CD-ROMs: articles on programming, tutorials, source code for games and utilities, and programming tools.

You could choose items from at various Internet sites. Students and programmers who have no access to the Net will benefit greatly by this.

Varghese AC
Kottayam, KL

We'll begin to put more stuff from the Internet on CD starting with PCQ's Summer CD-ROM its in June. It will include samplings of Web sites, and more.

WE WANT JAVA

✉ We hear a lot about SunSoft Corp's Language which is a revolutionary product. I would like PC Quest to publish articles about Java and its features for the benefit of readers.

From an article in *Business Today*, I understand in June last year Sun had announced free distribution of Java to more than 100,000 developers. Can *PC Quest* try to contact Sun for distributing it on a CD-ROM in the future?

KR P
Mangalore

✉ This is the first time writing to you, through been reading PC Q for the past 18 months.

Thank you for the 95 CD-ROM and Win CD-ROM (which I bou a black-market price Rs 60, despite being a lar PCQ reader and for the Spring 9 ROM.

- Cover games, and games.
- PCQ's Spring 9 ROM has the LINUX O When can we have a hottest language on th which is freely avail the Internet? There is mendous amount of siasm about Java amo college students.

Thanks for the co "RAD using Delphi Thakur. Hoping to s on it. Thanks also fo ing back Atul Chitnis versations".

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Duckback®

CYBER ACCOUNTANTS ON YOUR FINGER TIPS

Start

Duckback presents Value 95—an effortless business accounting software on

WINDOWS 95.

If you are already using an accounting package and wish it was more user friendly. Or have never used one and wondering how to start.

Take a look at Value 95.

Highlights :

- Network ready.
- Independent of data format.
- Business templates built-in.
- Virtually unlimited data volume.
- Unlimited number of companies.
- Cue cards, tool tips & context sensitive help.
- Object oriented.
- Extensive graphics.
- Codeless.

NOW ADD VALUE TO WINDOWS 95.

VALUE 95

EFFORTLESS ACCOUNTING

Microsoft® SOLUTION PROVIDER

Duckback Information Systems Pvt. Ltd.

Duckback House, 4th Floor,
41, Shakespeare Sarani,
Calcutta-700 017.
Phone : 240-2726, 247-1601/2/3, 247-3019
Fax : 033-247-6152 Tlx: 021-2207

Mileage 703

Dealers enquiry solicited all over India.

Authorised Dealers :-
BOMBAY : ARTECH SOFTWARE SYSTEMS 25 Moonlight, Sir M.V. Road, Andheri (East), Bombay-400 049 Ph : 837 0166, Fax : 022-624 3503. MOBU 37 Sagar Chambers, Calicut Street, Fort Market, Bombay -400 001 Ph : 261 0754,265 5219, Fax : 91-22-262 2733. TOTAL SOLUTIONS 1 Ashok Kunj, Plot No. 45 J.B. Nagar, Bombay-400 059 Ph : 837 5362. VERTEX MICRO SYSTEMS 6 Sangeet, 76, Garodia Nagar, Ghatkopar (East), Bombay-400 077 Ph : 524 8421. **CALCUTTA :** CRAWFORD SYSTEMS 1/1, Vansittart Row, Calcutta -700 001 Ph : 248 9477,248 4299. THETA INFOTECH PVT. LTD."LORDS"5th 224-71, Lord Sinha Road, Calcutta -700 071 Ph : 242 8015,242 2378 Fax : 91-33-242 4884. XENIX COMPUTERS PVT. LTD. 30B Shanti Ghosh Street, Warehouse, Calcutta -700 003 Ph : 555 1855 Fax : 91-33-555 1855. **NEW DELHI :** AABHA MANAGEMENT SYSTEMS PVT. LTD. 22A, MIG Flats, Katwara Block, New Delhi -110 016 Ph : 686 8923,661 740 Fax : 91-11-696 8767. BPB PUBLICATIONS Munish Plaza, 20 Ansari Road, Darya Ganj, New Delhi-110 002 Ph : 326 7741,327 2329,328 1723,325 4990 Fax : 91-11-326 6427.

*All brand and product names are registered trade marks of their respective holders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

more favours.

You know the scene. We know the score.

More and more people are getting into more and more film and video productions. By the day. Without much increase in the number of post-production houses. Or the number of post-production options. So how do you handle both quality and quantity?

Do what the big guns like B.R. Films, Zee TV, Doordarshan, Television Eighteen and others do. Stick to Benchmark's all-encompassing range of non-proprietary film and video post production equipment.

Where for example you have ,at the least, 7 options for your Graphics or Animation needs. Like the Inscriber, IlluminatorPRO, VMAXX and others. Another 3 for Video Editing like the Matrox Studio, D-Vision PostSUITE, and Virtual Recorder. Another 5 for Multimedia Subsystems. Getting monotonous, aren't we?

For the entire menu check out the bottom of this ad. For the secret behind it, get in touch with Rinku Roy. You can fax her on 91-44-491 0123.

You'll be doing your clients a big favour.

BENCHMARK

India's film and video post production store.

BENCHMARK MICROSYSTEMS PVT. LTD. Ceebros Arcade Sardar Patel Road Adyar Madras 600 020 India **Phone** 91-44-491 0054 **Fax** 91-44-491 0123

Clarion 5Q1E06

MATROX STUDIO

D-VISION PostSUITE

VR Virtual Recorder

OPTIBASE LEADING THE MPEG REVOLUTION
- MPEG-1 ENCODER
- MPEG-1/2 DECODER
- MPEG-1E1 VIDEO COMMUNICATIONS LINK

Matrox Marvel Millennium

All trademarks, registered trademarks, and logos are of their respective holders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

We have a new BBS in PUNE called "CHANNEL 8", with Siddharth Sharma as the Sysop. The phone number is 358017, 18, 19. We've also discovered that VSNL stands for "Very Sloppy Net Login"—spread the word.

Shinil Subramanian
Bayamon
Pune, MH

Java will be covered extensively later this summer, and the distributable compiler and interpreter are likely to be on a future PCQ CD-ROM.

—Ed

CHAT SITES ON THE NET

✉ At the outset let me thank you for your articles on the Internet in the November 1995 issue. I have learnt a lot after reading this issue. I study at IIT Kharagpur, and have exploited the facilities available with your help. I would like some information on chatlines with their URLs. I already have one for GREX.

Bilash Biswas
Kharagpur, WB

A telnet to any public IRC server will get you into IRC. For instance: telnet caen.fr.eu.undernet.org 6677.

—Ed

ERRATA

Novalink Modem: The NovaLink Novamodem 14.4 kbps PCMCIA modem reviewed in March had its local distribution details omitted. The modem is distributed by Intrend Systems, A-111 Shivalik, New Delhi 110017 Tel: 11-6211828, 6212084, Fax: 11-6433326. Its price is Rs 13,500, plus sales tax.

CD-ROMs: The distribution details for various multimedia CD-ROMs reviewed in previous issues have not been included in the abbreviated reviews of these CD-ROMs. The **Microsoft Home** titles are sold by **HCL Frontline**, as well as in other bookstores such as BPB Publications. The Dorling Kindersley series, consisting of *The Way Things Work* (Rs 1,999), *The Encyclopedia Of Nature* and *The Encyclopedia Of Science* is sold by **BPB Publications**, as is *LearnIT Windows 95 Interactive Training*.

HP Color CopyJet: Captions were inadvertently omitted with the visuals on page 118 in the March 1996 review. The visuals were actually printouts and copies from the HP Color CopyJet.

Nashot: In Pricewatch, February and March, the Nashpack Rel 3.0 package was incorrectly attributed to Tata Consultancy Services. The package is developed and distributed by Nashsoft Systems, Bangalore, winners of PCQ User's Choice 1995 award for their Nashot antivirus software.

The photo credits for **NASSCOM '96** in the March issue were omitted. The pictures were taken by Javed Ahsan.

CMOS RAM: The introduction to the CMOS_ACCESS program in our February issue should have read: "A Turbo C program (with the source code) that accesses CMOS RAM and can store the data to disk—from where it can be restored—by Winny Verghese of St Stephen's College, Delhi can be found at PCQ Online. Along with it is an example program that accesses the data using Turbo Pascal too".

—Ed

WRITING FOR PC QUEST

- ❑ Articles offered must relate to products, applications technology relevant to the personal computer user.
- ❑ They must be no longer than about 1,500 words, unless specified otherwise by the editor in individual cases.
- ❑ PCQ does not accept program listings, except for small programs or modules illustrating a point within an article, or short programs illustrating new or innovative techniques (see SWAP).
- ❑ Every article must be accompanied by a signed letter certifying that the article is original and is not offered for publication elsewhere.
- ❑ Manuscripts should be neatly typed or printed, on A-4 size paper. Articles on floppy (3.5" or 5.25") in plain ASCII text or standard word processor formats will be preferred. Articles may be also be sent by e-mail to **pcq@pobox.com** or to the PCQ forum of **PCQ Online** (11-6221734).
- ❑ Please ensure that the address is clearly printed both on the covering letter *and* on the manuscript. If a floppy is sent, the author's name and address on a label on the floppy as well as in a README.TXT file in the floppy.
- ❑ Letters to the Editor must be marked Readers' Forum, must carry the author's signature, name and address. Letters requesting information of general interest will be published. We regret that we are unable to send a response if necessary. We regret that we are unable to respond individually to Letters to the Editor, or to Help Screen queries.

PRODUCT NEWS

To be considered for publication, a write-up for the Product News pages *must* include all of the following:

- ◆ Name, type and price.
- ◆ Applications and target.
- ◆ Full specifications, special features, advantages.
- ◆ Availability of final, ready package: when and where.
- ◆ The name and telephone number of the person who can be contacted for further details or a demonstration.
- ◆ A product brochure.
- ◆ The write-up must be accompanied by a good black and white photograph or colour transparency. A write-up without a photograph or screenshot may not be published.
- ◆ The product must be available for demonstration and sale in any of the four metros or in Bangalore.

Standard press releases without these supports will not be considered for publication.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tuning Up TCP/IP

Tips on setting up serious Internet accounts, with PPP or SLIP

Kishore Bhargava and I just took off from Madras, en route to Calcutta for the next leg of our "Business on the Internet" seminar tours. Though the flight feels somewhat like a one-eyed drunken sailor in a sack race, I have reasons to grin, for I am typing this on my notebook computer in mid-air.

For a change, I am actually getting some work done on the flight, instead of looking out the window staring at boring clouds. This is what notebook computers were designed for. Just a year back, I would have been chained and handcuffed for even carrying it on board the flight in my hand baggage. Today, an unobtrusive announcement by the Indian Airlines stewardess just asks me not to use the computer during takeoff and landing.

Initially the others would come to their senses! Apart from Indian Airlines and Vayudoot, no other airline in India permits the use of computers on the flight. Considering that most of them position themselves against Indian Airlines by stating that they cater to businessmen, this is rather ridiculous.

Anyway, now that I have some (enforced) time (the flight was delayed by an hour to begin with—some things never change), let me continue with my series on using the VSNL Internet accounts.

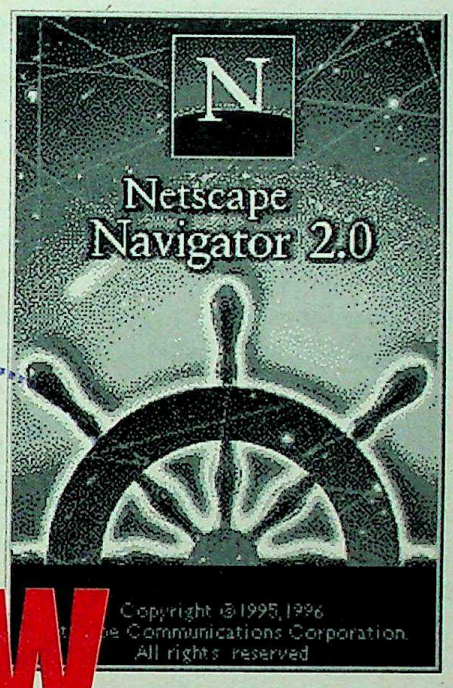
TCP/IP Accounts

In previous columns, I stated that the Internet gateways make almost no sense in business houses. Well, I need to restructure that statement—the SHELL accounts are effectively useless to them. The TCP/IP accounts are surprisingly good value if used properly. As a recap—with a shell account, you can use just those services available off VSNL's server (which apparently has no standard—it changes depending on the city.).

However, with a TCP/IP account, you can run whatever software you want at your end—no one can limit you there. There are plenty of excellent packages available all over the Internet, and Windows 95 even ships with some pretty decent ones that you can use to get more stuff.

VSNL initially tried to sell a package called "Dhara" to its subscribers, but apparently could not keep up with either support or upgrades. While workable (the stuff is made by software who have been around for ages and know their business), there are plenty of freeware and shareware options that work much better.

If you still use Windows 3.x, you will require a Winsock (Windows TCP/IP sockets) program. An excellent one is Trumpet Winsock (available from ftp.trumpet.com.au). Make sure that you get version 2.1f or later. Version 2.1 is time-limited and will stop working after 30 days unless you register it. Version 2.0b is also pretty usable, and does not time out.



With a TCP/IP account, you can run whatever software you want at your end—no one can limit you there

However, the PPP support of all versions of Trumpet Winsock earlier than version 2.1f is kaput—don't even try using them for PPP (PPP is the protocol used to get TCP/IP going over the serial line).

However, a little known fact is that VSNL's routers also support SLIP (another TCP/IP-over-serial-lines protocol). Older versions of Trumpet Winsock work perfectly with SLIP, so you may want to use that instead (more on this later). The same applies to OS/2 users—the Internet Diallers shipped with most versions of OS/2 3.0 Warp have disabled or defective PPP support.

If you use Windows 95, you are almost there. You will need another little package known as Microsoft PLUS! for Windows 95—cheap and easily available from any Microsoft

Atul Chitnis is a datacom and network consultant in Bangalore. You can reach him at achitnis@pobox.com or via his web pages at http://ourworld.compuserve.com/homepages/achitnis

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

dealer. The PLUS! pack has an Internet Wizard that will quickly guide you through the process of setting up your connection.

Setting Up Winsock

No matter what package you use, there are certain parameters you have to set before you strike out.

You will have to set up your IP address to begin with. Because you can never know what your IP address is going to be when you connect (it is assigned to you dynamically from a pool of addresses), set this to "0.0.0.0".

Next comes your net mask. I don't want to get too technical here, so just set this to "255.255.255.0" and move on.

Some packages will ask you for your gateway address—you can usually skip this, but can also use the IP address of your remote VSNL server (shown to you when you connect).

Next comes a mission critical option—the DNS entries.

DNS (Domain Name Service) is the process that resolves internet host names to their corresponding IP addresses. For example, if you ask your web browser to connect to "http://ece.iisc.ernet.in/monster/index.html", the DNS will lookup "ece.iisc.ernet.in" and return the IP address (which is 144.16.64.2). Without this service, you would be limited to using IP addresses instead of host names.

Until recently, VSNL used ERnet's Sangam and Soochak hosts as DNS servers. After complaints poured in from ERnet users about massive degradation of performance due to this, VSNL was forced to set up its own DNS servers. Their IP addresses are 202.54.1.30 and 202.54.1.18. These are the two addresses you should enter in the DNS fields (Windows 95 names them "primary" and "secondary" DNS servers, so enter one address in each of them, while Trumpet has only one field—enter both addresses there separated by a space).

You will have to choose a modem or communications port (the latter is the one your modem is attached to). Trumpet Winsock users should ensure that the "Carrier Detect" box is checked.

Finally, you need to decide whether you are going to use the PPP or the SLIP protocol. Most people (anyone using Windows 95 for sure) will choose PPP, but you can also use SLIP.

In Windows 95, you also need to tell the Internet Dialer that a terminal window should be brought up after connection is made.

Right, now we are almost there. If you are a PPP user, you just need to dial the VSNL TCP/IP number, enter your user [illegible] password, then, at the "giasxxro" [illegible] enter "ppp", and press enter. [illegible] acknowledgement appears stating [illegible] IP address is, press "Continue".

If you use Trumpet Winsock [illegible] "Manual Dialing" and type [illegible] modem commands required to [illegible] to VSNL and to log in. At the "gias[illegible] prompt, type "ppp" and press [illegible] Then press Escape to give [illegible] Trumpet Winsock.

You should now have a [illegible] connection. To check this, use [illegible] program (supplied with any [illegible] suite, including Windows 95, [illegible] Warp and Trumpet) to check if [illegible] getting a response from some ser[illegible] "giasbm01.vsnl.net.in"). You will [illegible] that you have been successful if you [illegible] see timings appearing (measured in [illegible] will prove that both your TCP/IP and [illegible] working—the Ping program will report [illegible] address of "giasbm01.vsnl.net.in" (which [illegible] 202.54.1.18).

The above procedure is fine for PPP [illegible] SLIP is another animal.

Unlike PPP (which negotiates the IP [illegible] on its own) you have to specifically tell [illegible] what IP address has been assigned [illegible] Unfortunately, this means that you [illegible] resort to a script before you can get [illegible] work done. Examples are shipped [illegible] Trumpet Winsock, please go through [illegible] and modify them as required. Make sure [illegible] your script says "slip default" instead [illegible] in the procedure above.

Now That You Are On...

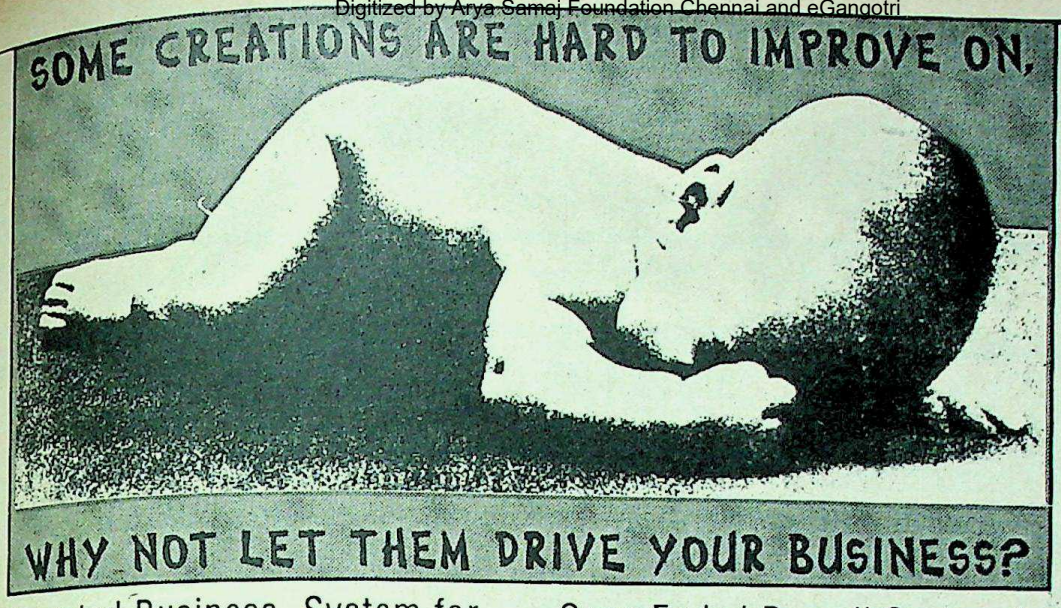
If you are using Windows 95 or [illegible] Warp, you will already have some client [illegible] TCP/IP applications, such as Telnet and [illegible] If not, you will need to get some in order [illegible] foray out into the Internet wilderness. [illegible] can simply get one from a friend, or [illegible] Shell account that comes with your [illegible] account to retrieve one (all TCP/IP [illegible] also have a shell account—simply [illegible] Shell account numbers and log in with [illegible] TCP/IP userid and password. You can [illegible] change your TCP/IP password from [illegible]

Use Lynx to connect to "http://ece.iisc.ernet.in/monster/index.html" and check out the Library there for some useful stuff you can download. These are just links to [illegible] the files themselves are not stored [illegible] pages. Instead, selecting the links will [illegible] the files to be transferred from [illegible] esites—wherever in the world that [illegible]

Use Lynx to connect to "http://ece.iisc.ernet.in/monster/index.html" and check out the Library there for some useful stuff you can download

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



WORKHORSE

Integrated Business System for PCs & PCs LANs

Indias ONLY business system with focus on INVENTORY. It can handle manufacturing/trading inventory, costing, invoicing, ordering etc with ease ! Its accounting module is more powerful than most so-called accounting packages ! User-definable inventory item, transactions and documents !

Open Ended Payroll System for PCs & PCs LANs

Indias ONLY integrated PAYROLL system with in-built capacity to handle I.Tax estimation, deduction with Form 16 & 24. Handles loan & incentive calculations, Arrears, PF, Bonus, Gratuity, etc. with ease. Any number of Pay-heads with user configurable formulas !

VETAN

- **Systems based on state-of-the-art DTR technology. This gives the user undreamt of power and flexibility. It ensures that the systems have capacity to remain in-sync with ever-changing needs.**
- **Available in Stand alone/LAN, DOS/WINDOWS versions !!!**
- **Systems are priced in-line with non-DTR / non-Integrated systems.**

HERE IS A SELECTED USER LIST

Arthur Anderson ❑ Albright Morarji Pandit ❑ Arphi Electronics ❑ Ansul Chemicals Ltd. ❑ BPL mobile ❑ Crystal Audio Ltd. ❑ Divecha Glass Industries ❑ Damania Capital ❑ Datacraft ICIM ❑ Enron Oil & Gas ❑ GE Apar ❑ Guerera Synthetics ❑ Hamilton ❑ Infrastructure Leasing ❑ Indofil Chemicals ❑ Jollyboard ❑ Metro Shoes ❑ National Stock Exchange ❑ Mafatlal Industries ❑ Nagarika Exports ❑ Punjabi Chandu Halwai ❑ Proctor & Gamble ❑ Precision Electricals ❑ Reliance Capital ❑ Saraswat Co-op. Bank ❑ SOTC ❑ Stock Holding Corporation of India ❑ Technocraft Industries ❑ Themis Laboratories ❑ Tata Finance ❑ VOX Industries ❑ World Trade Centre.

SOFTLINK EXPORTS 310, Kharek Bazar, Bombay - 9. Tel.: 343 9545 / 72, 342 1268. Fax: 4153054.

Distributors : *Gujarat* - Nikka Computers, Baroda. Ph. 334796. **Dealers : *Bombay*** - Astromac Computer, Ph. 8075978. Kolte Computers, Ph. 6140520. On Track, Ph. 6480074. Soft Tech Consultants, Ph. 2675958. Prime Systems, Ph. 5167181. ***Bangalore*** - Complete Solution Ph. 6676177. M & M Marketing, Ph. 2256298. ***Madras*** - Adrisc Computing Solution, Ph. 4349487. ***Ludhiyana*** - World Link Computers, Ph. 36944. ***Delhi*** - Kernal Systems, Ph. 6447348. ***Goa*** - Professional Computer, Ph. 250701. ***Ankleshwar*** - Sorofftech, Ph. 24005.

DIPLOMA IN COMPUTERIZED BUSINESS SYSTEM

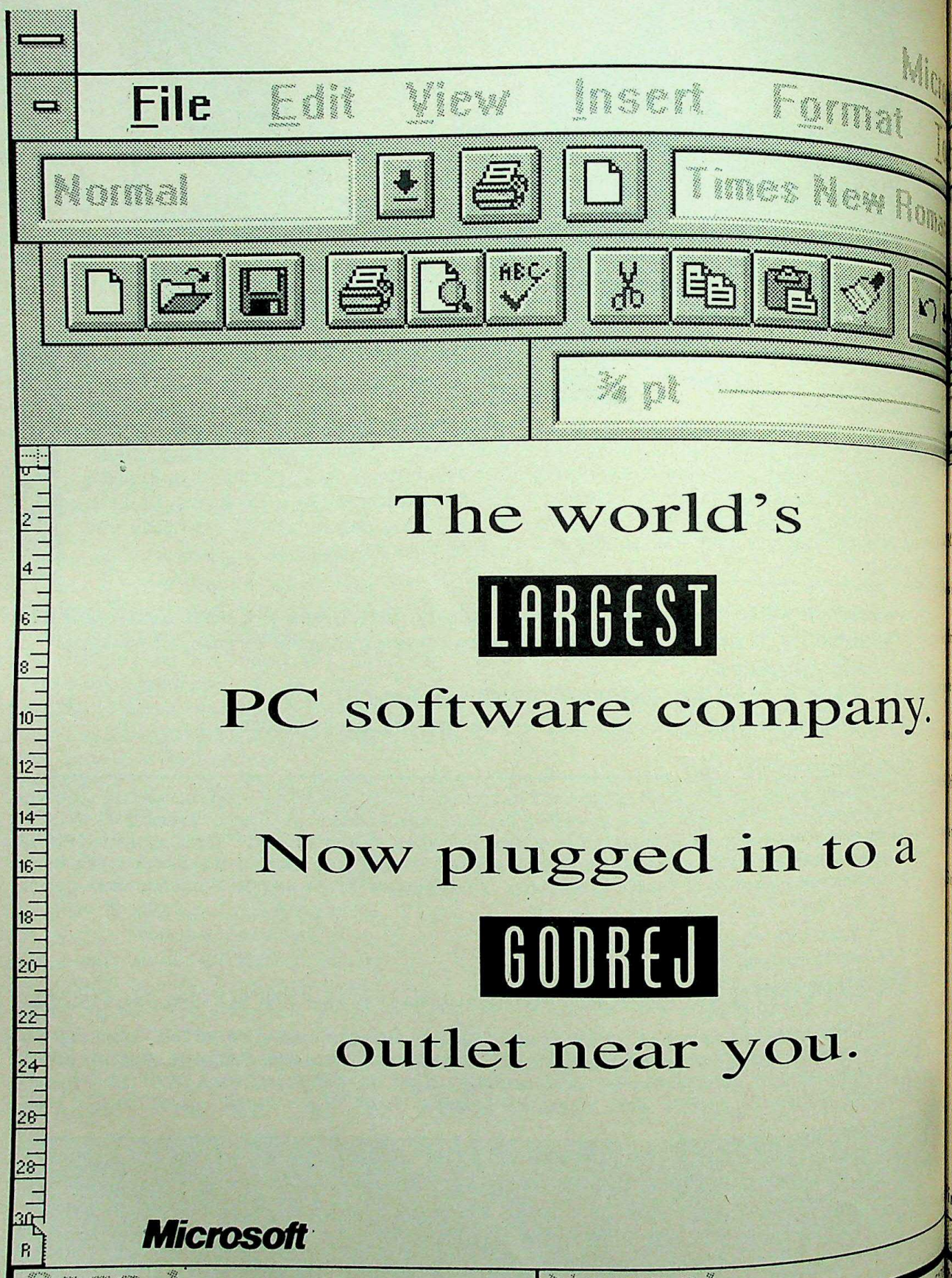
ATC enquiry welcome from existing training centres for conducting the popular DCBS (Diploma in computerized business system) course. A first ever 6 month diploma course that teaches total computerised business from accounts to inventory & ordering on a industry standard system.

ATCs (Authorised training Centres) ***Bombay*** - Softline Infotech, Ph. 3092063. Maratha Mandir Computer Academy, Ph. 3077330. Compuland, Ph. 7682166. ***Bangalore*** - Complete Solutions, Ph. 6676177. ***Anand*** - Informatic, Ph. 23164. Delta Computer Consultant, ***Vidyanagar*** - Micky Micro Systems, Ph. 34184. ***Halol*** - Samanvay Computer, Ph. 22705. ***Nadiad*** - Ganesh Computer Service, Ph. 25260. Prerna Computer Service, Ph. 24606. ***Goa*** - Dbyte Computers, Ph. 314334. ***Rajkot*** - Apex Computers, Ph. 51260.

Dealership enquiry welcome from those with software support expertise. Preferable : Software Developers. Unheard dealer margins.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

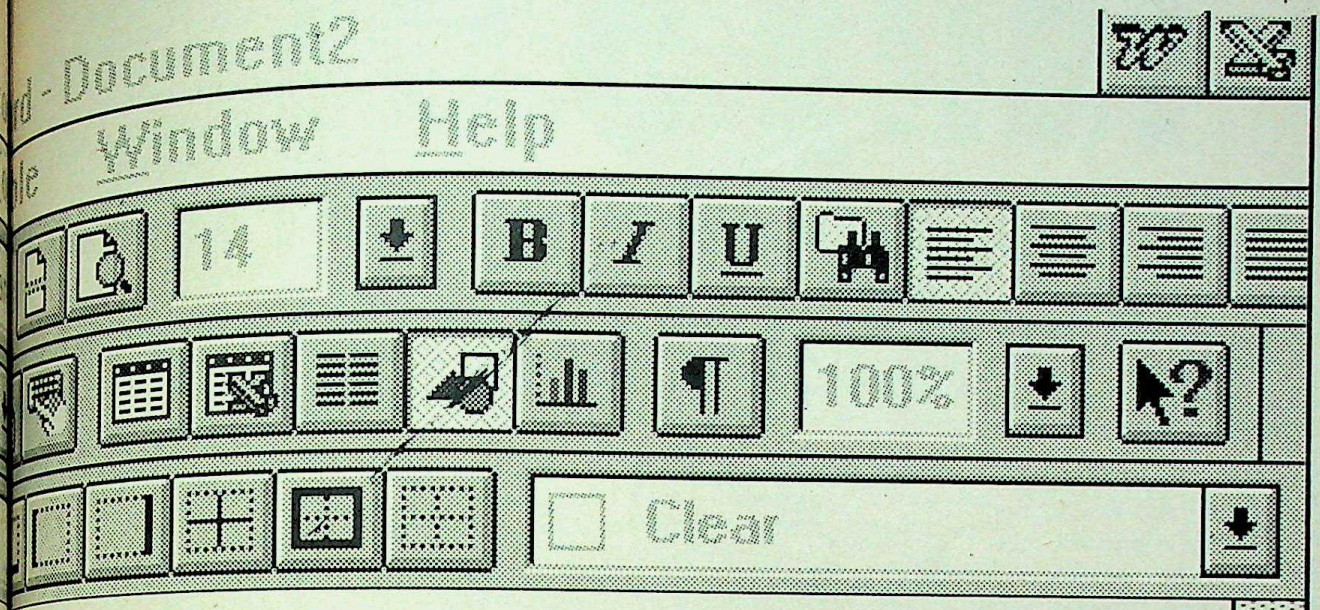
Digitized by Arya Samaj Foundation Chennai and eGangotri



Godrej Trading & Services Co. Ltd. Plant 19A, 2nd floor, Pirojshanagar, Vikhroli (W), Bombay 400 079. Tel: 5171166/77. Fax: 5
BRANCH: Bombay. Tel: 2048371. Fax: 2852079 • **Pune.** Tel: 624588/628971. Fax: 628969 • **Ahmedabad.** Tel: 5831545-9. Fax: 55
Indore. Tel: 539075. Fax: 533735 • **Bhopal.** Tel: 551863. Fax: 550029 • **Jabalpur.** Tel: 316092. Fax: 311776 • **Surat.** Tel: 870125 • R
Tel: 339369. Fax: 451066 • **New Delhi.** 6845002/7, 6830690. Fax: 6841482 • **Lucknow.** 226645/228963/ 221671. Fax:

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



icrosoft, the world's largest PC software company has just tied up th Godrej. So the world of Microsoft can be accessed here and now. m India's largest and most comprehensive dealer network. Ensuring dy availability of Microsoft products, around the country and at st competitive prices. Anything from DOS, Windows, Windows 95, ffice Suite, Word, Excel, Powerpoint, Windows NT, Mouse to a vast nge of multimedia and entertainment products. Microsoft from drej. It's time you got connected.

If you are a Reseller interested in dealing with Microsoft products, send the coupon below to: *Suresh Iyer, Business Mgr. Microsoft, Godrej Trading & Services Ltd., Plant 19A, 2nd floor, Vikhroli (W), Bombay 400 079. Tel: (022) 517 1166/77. Fax: (022) 517 0415.*

Yes! I'm interested in Microsoft products.

Name: _____

Address: _____

_____

Tel: _____

Godrej OFFICE AUTOMATION

re-power for winners

ndigarh. Tel: 773238/705945. Fax: 703047 • **Jaipur.** Tel: 515182/514650. Fax: 515496 • **Madras.** Tel: 655666/6257331. Fax: 6257155
galore. Tel: 2276487/382/465/538/297. Fax: 2219312 • **Hyderabad.** Tel: 202895/201876. Fax: 203587 • **Vishakapatanam.** Tel: 546510/
ax: 545878 • **Thiruvanthapuram.** Tel: 460455/460542. Fax: 75935 • **Kochi.** Tel: 315683. Fax: 371838 • **Calcutta.** Tel: 370895-99/
11/06. Fax: 3378271 • **Bhubaneshwar.** Tel: 405082/404289. Fax: 400599 • **Guwahati.** Tel: 540787/542851. Fax: 543466.

Mudra:GTS:4383

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tally 5.0

The only accounting software you can use on OS/2, Windows, Windows 95 or Power Mac. Or on all of them.

Tally 5.0 is the first accounting software in the world that comes in four widely-used platforms: OS/2 Warp, Windows 3.1, Windows 95 and Power Mac. All in one package.

So, you can run Tally 5.0 on any platform you want.

Or on more than one platform. Simultaneously.

For instance, you can view your balance sheet on your Macintosh while your accountant is busy keying in the day's vouchers on Windows 3.1.

But that's not all. Get Tally 5.0 and you'll discover why it is the complete business solution that's real value for money.

FINANCIAL ACCOUNTING

Tally 5.0 updates all your financial statements and books of accounts. Instantly.

With Tally 5.0, you can take a look at your balance sheet at the press of a key.

And also track bills-receivables and payables, and even advances and on-account transactions.

As a result, you can keep yourself completely updated on the financial status of your company at the touch of a key.

INVOICING AND VOUCHER PRINTING

Tally 5.0 gives you all the standard accounting vouchers as well as the scope to customise your vouchers.

You don't need to do away with your existing invoices or vouchers when you use Tally 5.0. You can generate invoices and vouchers as per your existing format. And even use pre-printed stationery to print invoices, vouchers and cheques.

INVENTORY ACCOUNTING

Tally 5.0 gives you the freedom to value your inventory as per your requirements.

To start with, you can choose from an array of cost or market valuation methods. Like LIFO-both annual and perpetual, FIFO, weighted average, last purchase / sale price and standard cost.

You can use Tally 5.0 to select methods to maximise or minimise your inventory value and give you comparative charts using one or more valuation charts.

Tally 5.0 also supports the concept of batches or lots, consignment-wise costs and consumption.

You can easily take stock of any item in more than one unit of measure as well as complex units of measure.

What's more, Tally 5.0 gives you the flexibility to integrate your inventory with accounts. Or maintain it separately.

DECLARED BEST ACCOUNTING PACKAGE BY PC QUEST IN '94

FINANCE MANAGEMENT

You can use Tally 5.0 to obtain accurate details of cash flow statements at any point in time. You can examine inflows and outflows to be in total control of your cash flow.

Further, you can analyse data with the help of graphs.

With Tally 5.0, you can allocate a revenue or non-revenue transaction to one or more cost centres. At the same time.

To help you take decisions faster, you can refer to the position-at-a-glance statement on a single sheet.

FLEXIBLE MULTI-YEAR REPORTS

Tally 5.0 helps you view information within a financial year or for any period determined by you. For example, if you want the sales trend over the last 3 years, you get it.

If you want a report from the start of a project to its completion date, you get it.

MULTI-COMPANY ACCOUNTS

Tally 5.0 lets you manage information across any number of companies. Both individually and on a consolidated basis.

You can combine or decombine companies at any time without any impact on the rest of your information.

You can even maintain accounts for different companies. And view balance sheets of two or more companies in the same report.

So get Tally 5.0 today. And have the world's most complete business solution at your fingertips.

To get in touch with your nearest Tally Shop, call:

Bangalore:
Tel: 080-221 1477.
Fax: 080-221 8647.

Bombay:
Tel: 022-631 6416.
Fax: 022-627 0627.

Delhi:
Tel: 011-622 8498.
Fax: 011-621 8197.

Tally
The Complete Business Solution

... for prosperous accounts

Created by : Peutronics Pvt. Ltd.
331-336, Raheja Arcade,
Koramangala, Bangalore 560 095
Tel: 080-553 3156 Fax: 080-553 [illegible]
Email: mktg@tally.ernet.in

OS/2, Windows 3.1, Windows 95 and Power Macintosh are the registered trademarks of the respective companies.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

d TCP/IP Apps

re are some definite "must-haves" ur TCP/IP suite of programs.

tscape Navigator: The Web ser of choice. Now in version 2.0, owser owns 75% of the market. It e for download and personal use. ble for both Windows 95 and dows 3.x (as well as the Macintosh), talls quickly and easily. Also es FTP and News reading, as well Mail.

S FTP: Probably the most usable program for Windows. Again ble for both flavors of Windows, gram does away with the kludgy mmands and allows you to click, drag and drop your way through e godowns of the Internet.

S Archie: Don't know where a file ated on the Internet? Use this l applet to quickly locate them. telneting to busy Archie sites and mbering sitenames. It also works in combination with WS FTP. the file has been located, just click and WS Archie invokes WS FTP to download it.

Eudora: The best known among the Windows based E-Mail programs. Don't leave home without it. Even allows file attachments, and handles Mime and UUencode/decode. However, this application is superfluous if you have Windows 95 and the PLUS! Pack installed—this gives you Microsoft Exchange, which is a far more powerful E-Mail program. (OS/2 users will learn to love a program called PMMAIL—similar to Eudora, it is very fast, very usable and very powerful.)

Juggling Internet apps

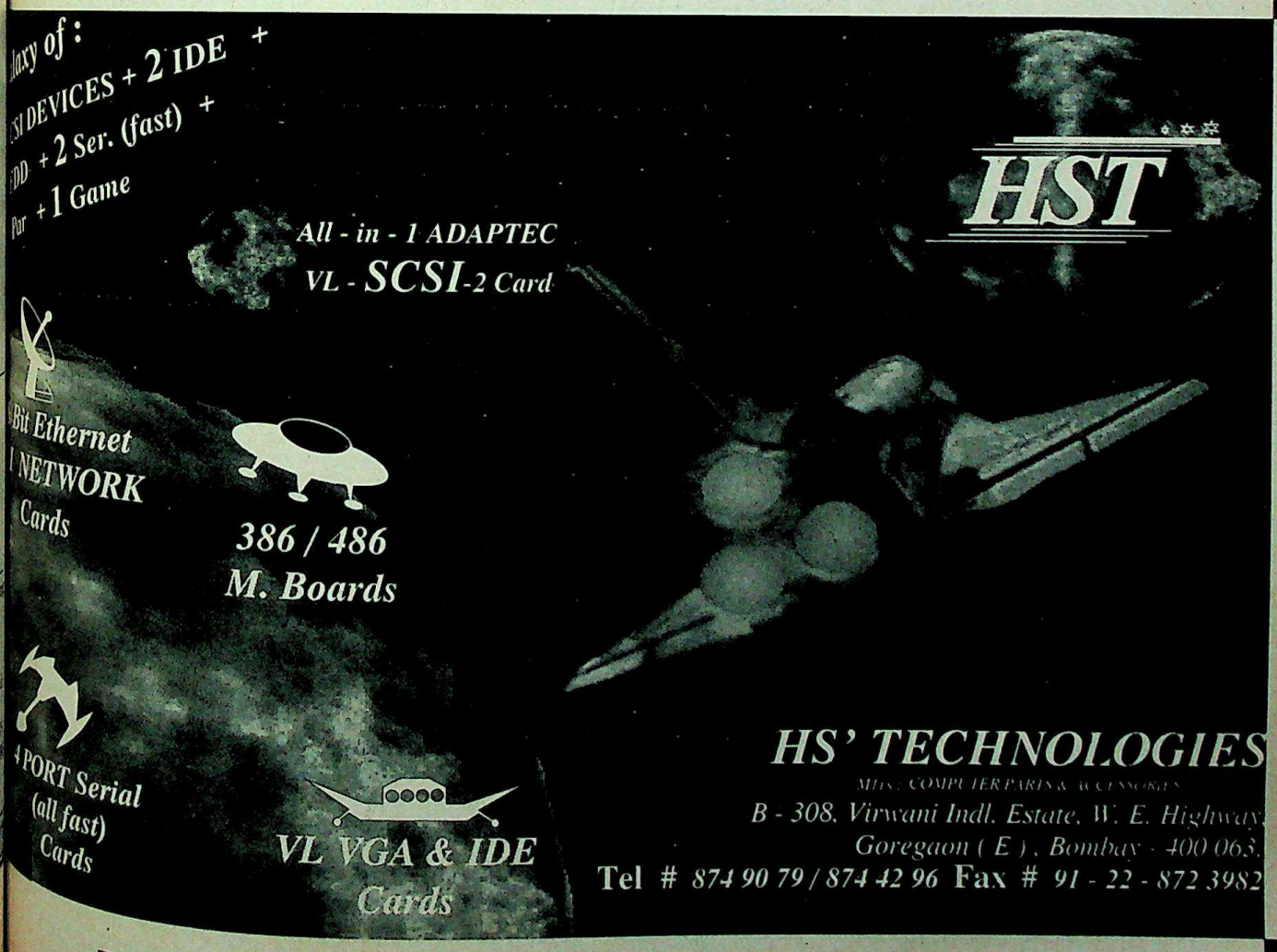
Many people with past experience in communication will find a pleasant surprise waiting for them, once they are connected in TCP/IP mode—you can not only run multiple applications at a time (that's what Windows is for, after all) but can also have multiple connections running over the single TCP/IP link, as well. For example, you could tell WS FTP to start transferring a file, then switch over to Eudora and send it off despatching and receiving e-mail, and then start up a telnet connection to an IRC server to go into a chat session with someone—all at the same time, over the same link.

Winding Down

That's about what I have space for this month. But before I sign off, I'd like to apologize to the many people who write to me via e-mail. The volume of e-mail I have been receiving from *PC Quest* readers has increased tremendously over the past few months, and it has become virtually impossible to answer each and every message I receive. This does not mean that I don't want you to write—your inputs are extremely valuable to *PC Quest* and me, because it helps shape this column into something that reflects what you are looking for.

So keep the notes, tips, comments and criticisms coming.

Cheerio! ■



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

RADical performance Windows and client server development tools

Development tools that provide the ***Rapid Application Development*** benefits of Visual Component-based design. The unrivalled performance of a world-class optimizing native code compiler and a scalable client/server solution.

Delphi and Delphi Client/Server

The comprehensive suite of visual design and debugging tools accelerate development so you move seamlessly from prototyping to development. Reuse components to maximize productivity.

With Delphi and Delphi Client/Server, you can always get to your code, and everything you can do visually can also be done in code. Innovative ***Two-Way Tools*** maximize your productivity.

Believe it!

They compile Windows applications at more than ***350,000 lines per minute?*** The resulting executable files are lean, highly efficient, and run ***10 to 20 times faster*** than interpreted p-code. Delphi EXEs are immediately deployable, ***royalty-free*** and require no runtime interpreter DLLs.

You prefer to work with a variety of programing tools?

Delphi and Delphi client server are the perfect additions to your toolset. They also use standard VBX controls, OLE 2.0 servers, DLLs created by other development tools.

Want to create high-performance client/server applications?

Delphi Client/Server includes the integrated Borland SQL Links 2.5, a set of high performance native drivers that interact directly with Oracle, Sybase, MS SQL Server, Informix and InterBase Servers.

The Binary Advantage

We are an organisation which is over 10 years old. Amongst the top 100 IT companies in India, we have over 200 people working out of a network of 10 offices, including one in the US, and a 100% software EOU near Delhi, to execute large business application projects using RDBMS and GUI development tools. We have executed several large projects like East-West Airlines, Minda Industries Limited, ICI, UNICEF, Nirula's, CRY in the recent past.

Binary Semantics is the single largest source for ***Microsoft, Lotus, Borland, SCO, Autodesk, Novell, Oracle, Sybase*** and many more software packages. With our vast experience and technical expertise we offer integrated solutions based on these products. We have recently connected over 400 branches of Corporation Bank on e-mail. Similarily we have connected Sandoz, Boots and other large organisations. We also train the end-u effectively use these products.

We are the largest provider of A products in the country. Our CAD Division has strategic alliances for CAD plant design software for process fr from Orange systems, USA, electrical panel design software called promi ECT Inc., USA, and CrystalEyes StereoGraphics, USA. We offer expe dedicated manpower for handholdi troubleshooting CAD / CAM softwa

With the immense popularity in m products, we have added a large n CD-ROM titles for Games, Education, C our range.

So the next time you think softwa Binary, you're in safe hands.

Delphi Client Server with InterBase RDBMS free *Rs. 10*
with Corel Office Companion free, or
with 2 Corel Professional photo free, or
with Windows 95 free, or
with Windows 95 upgrade and Windows 95 C

WIPRO SYSTEMS is the Country Distributor of Borland products.
Binary is the National Reseller for Borland products.
For attractive offers and bundles of a vast range of products contact:

For a free colourful Software Finder covering thousands of products from round the world please write to:

All names are the trademarks respective

BINARY SEMANTICS LIMITED

CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, ***TEL:*** 91-11-541 5615, 541 8069, 543 7078, 543 7084, ***FAX:*** 91-11-545
OVERSEAS OFFICE: PENNSYLVANIA STATE, P.O. BOX NO. 483, P.A. - 17001, ***U.S.A. TEL:*** 717-731-8468, ***FAX:*** 717-731-9857
BRANCHES: BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, ***TEL:*** 91-080-221 5785, 224 0222, 224 1222, 224 3283, ***FAX:*** 5885; ***BOMBAY:*** 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, ***TEL:*** 91-022-621 0867, 620 ***FAX:*** 91-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, ***TEL:*** 91-033-473 3109, 473 2101, ***FAX:*** 91-033-473 0687; ***CHANDIGARH:*** 14, SE CHAMBERS, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, ***TEL:*** 91-0172-706722, ***FAX:*** 091-0172-706043; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARRED SECUNDERABAD - 500 026, ***TEL:*** 91-040-773 0399, ***FAX:*** 091-040-773 2811; ***PUNE:*** AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI 411 030, ***TEL:*** 91-0212-44 8063, 43 2352, ***FAX:*** 91-0212-47 7829; ***MADRAS:*** 675, ANNA SALAI, 1000 LIGHTS, MADRAS - 600 006, ***TEL:*** 91-044-852 4438, ***FAX:*** 91-044-852

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

VIJAINDER K THAKUR

Digitized by Arya Samaj Foundation Chennai and eGangotri

When Slogans Are A Let-Down

Indian IT potential is being squandered by poor leadership

As a young pilot officer, while training at the Fighter Training Wing, Kalaikunda, WB, I was very impressed with a slogan painted outside our crew room that said: "Through these portals have passed the best fighter pilots in this world". My chest would swell with pride every time I looked at that slogan. However, the pride didn't stop me from wondering: Says who?

Over 20 years later, I'm elated by references to Bangalore as India's Silicon Valley. However, once again I wonder: Says who?

Actually, the parallel between Bangalore and Silicon Valley is almost bizarre. Silicon Valley is where the best minds and technology on this planet are engaged in conquering the IT frontier. Bangalore is where India's IT industry captains protect their bottom lines through low-tech ventures devoid of risks. Or it's about US IT giants taking advantage of Indian talent and shifting their second- and third-line operations here.

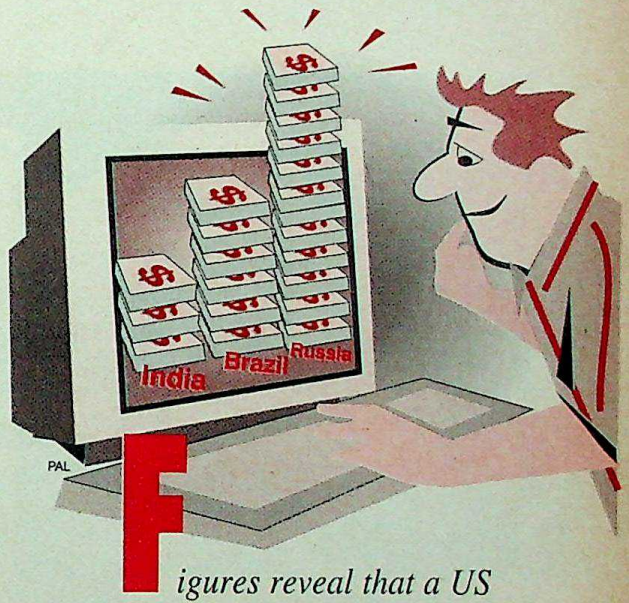
Many Bangalore-based Indian software companies want us to believe that they're earning foreign exchange by exporting software whereas they're merely executing offshore projects. Though both may earn dollars they aren't exactly the same thing. Besides most offshore projects are low-tech in nature. A lot of them involve reengineering applications written in proprietary environments.

Many offshore projects that Indian companies implement involve database applications. There is a lot of interest in databases and C/S applications amongst young programmers and such projects serve as the right outlet for them. We should be farsighted and bid for contracts in the state-of-the art C/S environment so that our programmers stay up to date and our long-term interests are protected.

But we won't become a credible force in the global IT industry by merely implementing C/S applications. We need to look beyond offshore projects and at developing software products.

We have the resources all right. India has the largest number of software engineers outside of the US (130,000 as reported by Computerworld Feb 26). With that much talent around we couldn't be lacking in ideas either. What we lack is leadership. Indian IT industry leaders exhibit the instincts of good traders, not bold entrepreneurs. They reduce every business opportunity to a simple SP-CP equation. That is why offshore projects make sense to the leaders. On the other hand, risky ventures such as developing and marketing software products gives them an epileptic fit. As a result we have talent that could be working on high-tech projects but isn't.

The Indian IT industry's failure to absorb talent presented an opportunity that US IT companies seized. India has the largest pool of software talent available at the lowest prices worldwide. (Figures reveal that a US company in India pays a salary of Rs 30,000 per month to a skilled programmer with five years experience. In Brazil, they pay four times that amount and in Russia they pay more.) US companies setting up ventures here can't be faulted from the economic point of view, but it should pinch our national pride.



Figures reveal that a US company in India pays a salary of Rs 30,000 per month to a skilled programmer with five years experience. In Brazil, they pay four times that amount and in Russia they pay more

While we must be proud of our IT potential we must be pragmatic about it too. There's no harm in harboring the dream that Bangalore can become India's Silicon Valley but we need to be objective enough to acknowledge that currently it's no more than a software development ghetto. The dream will be realized only if the country can throw up some bold new leadership with entrepreneurial skills. ■

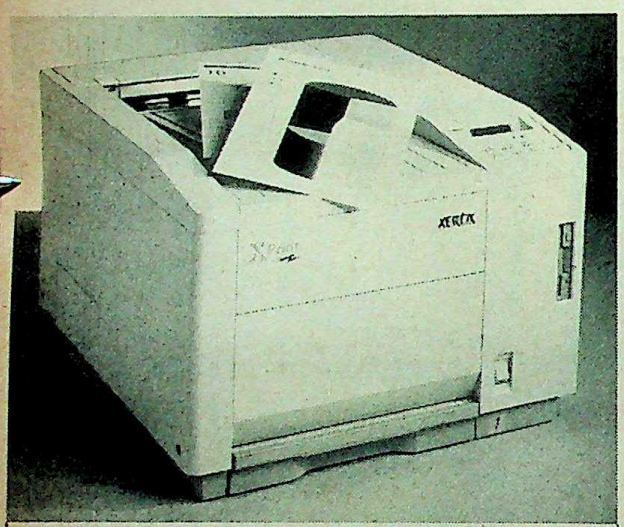
V K Thakur, a former IAF pilot, is a database and software consultant in Delhi, and a PCQ contributing editor. He's vkt@pobox.com on the Internet, and THAK on PCQ Online

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

hennai and eGangotri

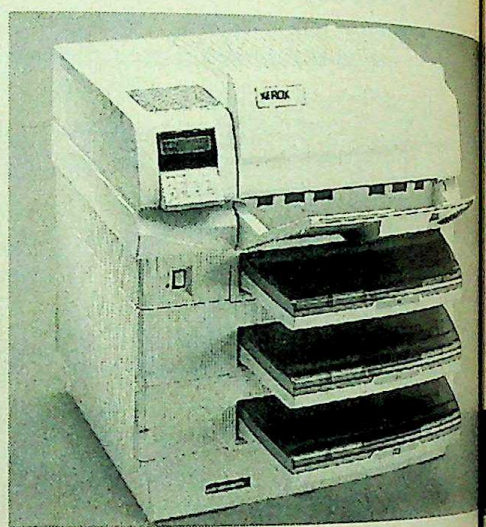
Business, they say, is about making the right impression.

Modi Xerox printers show you how.



Xerox 4900 Opal

- High quality colour output • 1200 x 300 dpi resolution
- IBM PC & Macintosh connectivity.
- Media Server Kit – for printing without a computer



Xerox 4520.

- A3 size capability • 20 pages per minute
- 3 paper trays • Networking capability
- Hard disk option (125 MB)

For more information, do send this coupon to : Modi Xerox Limited, ODS Business Division, 8th Floor, Hemkunt Tower, 98, Nehru Place, New Delhi - 110019

Name : _____ Designation : _____

Company : _____ Address : _____

_____ Tel.: _____ Fax : _____

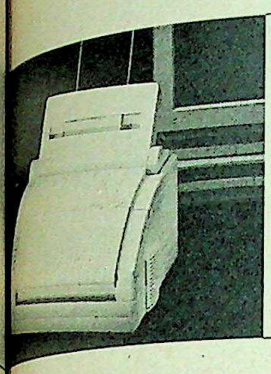
COPIERS ■ PRINTERS ■ FAX MACHINES

For more information on the Modi Xerox range of printers, please contact : **Customer Business Units : • North:** Modi Xerox Limited, Jagannath Bhawan, 33, Community Centre, New Friends Colony, New Delhi-110065. Tel.: 6834294, 6828750, 6828760, Tlx: (031)66745, Fax: (011) 6852856 • **Central :** Modi Xerox Limited, B1/1, Kursi Road, Mahanagar Extension, Lucknow-226006, Tel.: 70551, 75781, Tlx: (0535) 2369, Fax: (0522) • **West :** Modi Xerox Limited, Nyloc House, 1st floor, 254-D-2, Dr. Annie Besant Road, Worli, Bombay-400025, Tel.: 4940936, Fax: (022)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

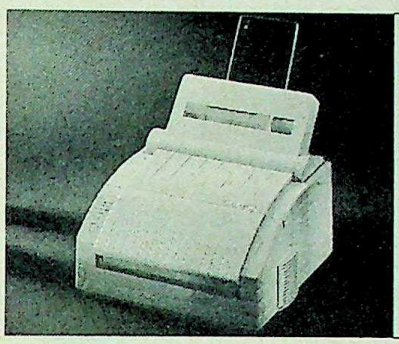
Digitized by Arya Samaj Foundation Chennai and eGangotri

Presenting the new line of printers from Modi Xerox.



Modi Xerox
6300 Laser printer

- 6 ppm speed
- Straight paper path
- Macintosh connectivity option
- Economode and Remote Printer Console

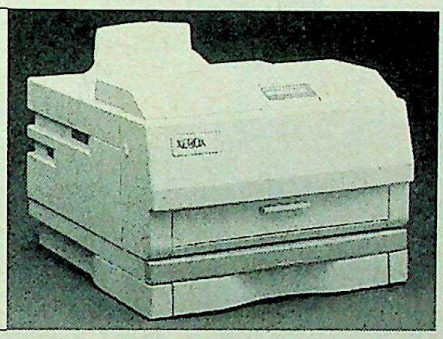


Modi Xerox
6600 Laser printer

- 6 ppm speed
- Macintosh connectivity
- Economode and Remote Printer Console
- 600 x 600 dpi
- Data compression
- PostScript option

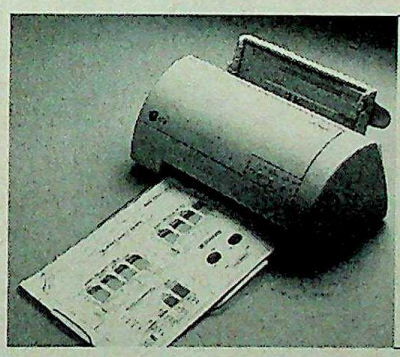
Xerox 4510

- 10 pages per minute
- High resolution (600 dpi)
- Wide range of fonts
- Network connectivity options



Modi Xerox
JP-450 Colour Inkjet Printer

- Quality colour printing
- High print speed (5 ppm)
- High resolution
- Tractor Feed option for continuous stationery



Modi Xerox
JP-170 Inkjet Printer

- Small footprint
- Colour upgrade facility
- 200 CPS print speed
- Serial Port option

THE DOCUMENT COMPANY

MODI XEROX

Xerox, The Document Company Xerox/Rank Xerox and the stylised X are the registered trademarks of Xerox Corporation, U.S.A. and Rank Xerox Ltd., U.K.

OFFICE SUPPLIES ▪ BINDERS ▪ LAMINATORS

Central : Modi Xerox Limited, Hasubhai Chambers, 5th floor, Near Town Hall, Ellis Bridge, Ahmedabad-380006, Tel.: 402838, 466413, Tlx: (0121) 6194, (079) 427639. • East: Modi Xerox Limited, 107/1, Park Street, 3rd floor, Calcutta-700016, Tel.: 296348, 296349, Tlx: 4467, Fax: (033) 297709 • West: Modi Xerox Limited, VDS House, 26, Cathedral Road, Madras-600086, Tel.: 8276705 (7 lines), Tlx: (041) 8030, Fax:(044) 8257308 • South Modi Xerox Limited, Akshaya Commercial Complex, 26, Victoria Road, Bangalore-560047, Tel.: 569143, 5543306, Tlx: (0845) 2971, Fax: (080) 5543653.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Step Into the 21st Century With....

DesignCAD
The Expert Series

An Investment in DesignCAD is an Investment in YOUR FU

DesignCAD Expert is the only complete CAD solution. It's 5 packages in one!

- **DesignCAD 2D** has all the tools and power necessary to produce professional architectural or mechanical blueprints. It will make you much more productive than drafting by hand !

- **DesignCAD 3D** gives you the power to create and manipulate solid or wireframe objects with quick, easy commands. Visualize your designs with outstanding photo-realistic color!

- **ScanPRO** converts (Raster to Vector) scanned images into files readable to DesignCAD or most other CAD programs. You will never have to redraw existing drawings!

- **The Expert Tutorial** will show you how to use the Expert Series more efficiently. It includes four interactive lessons and much, much more!

- **Symbol Libraries** contain over 6,000 pre-drawn architectural and industry standard symbols, which will save you tremendous amounts of time and money!

NEWEST WINNER!
PC MAGAZINE
EDITORS' CHOICE
Oct. 25, 1994

BUYERS ASSURANCE SEAL — IDG WORLD

COMPUTER SHOPPER — BEST BUY — OPI

System Requirements:

2D - 286 or better - 3 Meg RAM - 5 Meg HD
3D - 286 or better - 3 Meg RAM - 5 Meg HD
ScanPRO - IBM Compatible - 640K RAM - Scanner
Symbol Library - 37 Meg HD for all symbols

SVAM SOFTWARE LTD.

AUTHORISED DISTRIBUTORS IN INDIA
SVAM SOFTWARE LTD.

NEW DELHI: 70, JANPATH NEW DELHI-110001 PH: # 11-3320224, 3731844-45, 3324551, 3326313 FAX: 11-3723266
BANGALORE: 84/2, S.T. HOUSE, IIND FLOOR, RICHMOND ROAD, BANGALORE-560 025 PH. # 080-2240396 FAX # 080-2240397
BOMBAY: 104, ADARSH, 1ST FLOOR, 86, MAIN S.V. ROAD, SANTA CRUZ (WEST) BOMBAY-400054 PH: # 022-6462053 FAX: # 022-6487845
CALCUTTA: FLAT NO. 306, B-BLOCK, MANSAROVER BUILDING 38, CAMAC STREET, CALCUTTA - 700 016 PH: # 033-2292621 FAX # 033-2429044

American Small Business Comp

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

GAUTAMA AHUJA
Digitized by Arya Samaj Foundation Chennai and eGangotri

Megatrends

Two major trends in business applications

This month I will discuss the two major trends that will shape business applications over the next year. These trends will affect packaged software and in-house application development. In fact some of the more far-sighted developers have begun to factor these trends into their current work.

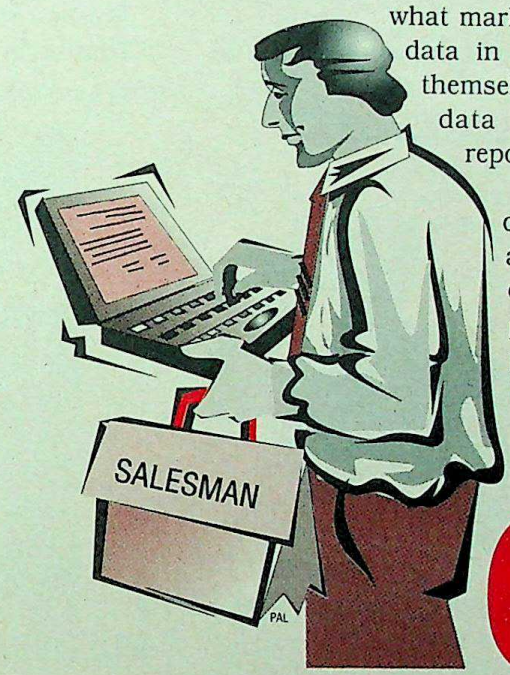
The first trend is the increasing use of computers by front line staff. Corporate bodies now want transactions to be captured as they occur and not be keyed in later. To illustrate this, I will discuss two application areas—sales and production.

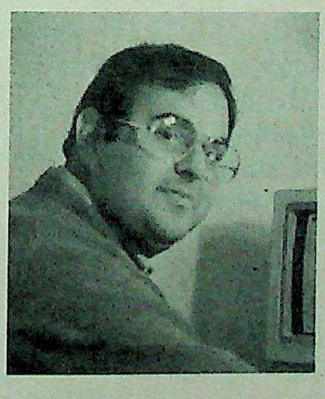
In the early days, sales departments would generate invoices that formed the basis for the sales vouchers later keyed into the machine. The computer's main function was to derive accounting information from these vouchers. Luckily, this phase didn't last long and users soon began generating invoices directly on the computer. The advantages were many; errors were reduced, tedious calculations could be automated and invoices were generated faster than by manual typing.

It was not always possible to do this exercise in real time. The only companies who could completely automate invoicing were those without widespread distribution networks. This was particularly true for consumer goods manufacturers with thousands of retail outlets. The high costs of computers coupled with low general awareness made it prohibitively expensive to try to capture all transactions at source.

Today, all this has changed. Consumer goods firms are deploying PCs at all stock holding locations and equipping sales staff with laptops to ensure that the flow of goods is always online. Companies such as Colgate-Palmolive and Hindustan Lever go a step further; the sales staff downloads delivery instructions daily through modems to central servers.

A similar change is also taking place in production. Management is no longer content with store personnel keying in issue and receipt notes. Every production manager wants eyes all over the shop floor, with instances of material flow being captured as they occur. The low cost of PCs and equipment such as bar-code readers make this vision feasible for anyone capable of investing a few





Gautama Ahuja is a contributing editor of PC Quest. He also owns and manages AHC Infotek, a Delhi-based turnkey software development company. You can reach him at sga%dartnet@uunet.uu.net or via the COL forum of PCQ Online

The second major trend is increasing end-user pressure towards integrating business applications with spreadsheets and word processors. Many middle managers now realize that the only way to satisfy their information needs is to get raw data out of the application and into their spreadsheets.

I wrote my first major invoicing application seven years ago. I spent a lot of time implementing Sales Analysis Reports. A few months ago I designed an invoicing system for a company the same size as my earlier client. We put in a few sales analysis reports, but what marketing really wanted was raw sales data in Excel which they would analyze themselves. We spent more time ensuring data portability and less on writing reporting programs.

This trend has two interesting corollaries. The first is that end users are waking up to the need for centralized coding systems. In the past, one could find lots of companies where the customer would be identified by a six character code by sales and a four character code by accounting. End users now go berserk when they discover that the customer name field varies between 25-70 characters depending on the application. The second is that application designers are not alone in writing programs; end users too write short routines in WordBasic to format the sales report. So, the developer must take care that all data structures, tables, etc. are designed to facilitate, and not hamper this kind of activity.

Consumer goods firms are deploying PCs at all stock holding locations and equipping sales staff with laptops to ensure that the flow of goods is always online

The bottom line—The need of the hour is user-centric application designers. ■

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

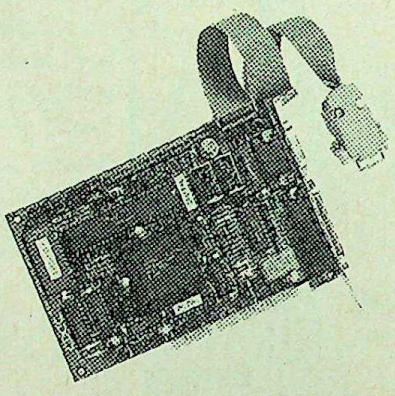
GIST Series of Multilingual Products

Multidimensional in Appearance ◆ Multi faceted in Performance

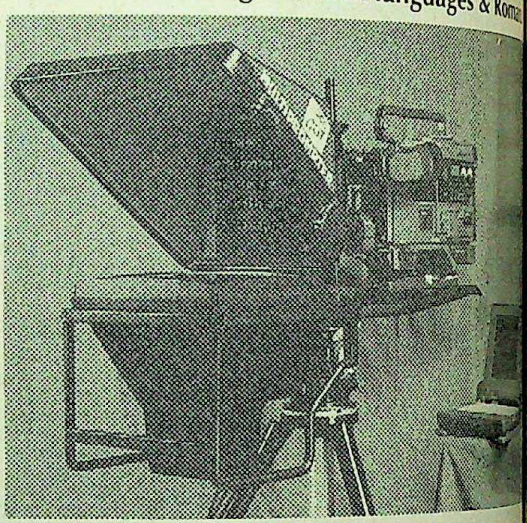
SALIENT FEATURES OF GIST PRODUCTS

- Phonetic BIS/DOE INSCRIPT keyboard overlay-common for all the Indian scripts.
- ISFOC code for a script defines optimal character-set for printing.
- Apart from Indian scripts, GIST software caters to Tibetan/Druk and Sinhalese too.
- Unique spellchecking facility in ALP & LEAP.
- Novell Netware versions available.
- Site licensing available.
- GIST Card/Terminal additionally supports Pe Arabic, European, Sinhalese, Tibetan/Bhutanese a Thai scripts.
- Transliteration amongst Indian languages & Roma

GIST Card

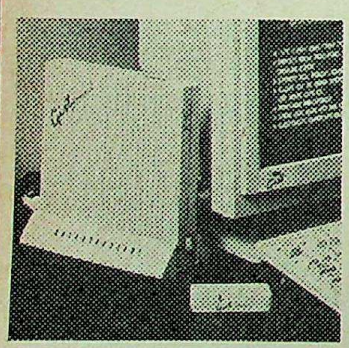


is the much needed multilingual interface add-on card for all existing character-oriented packages like *dBase, FoxPro, Lotus 1-2-3, QuatroPro, WordStar, QBasic* etc., and compilers like *C, C++, Clipper* etc. on DOS. GIST Card comes with its own built-in multilingual word-processor, called Apex Language Processor (ALP). Support for GIST Card is also available on PC-based UNIX platforms and network (Novell NetWare 3.x) environment (node-specific) compatible to VGA Cards on PCI & VL bus.



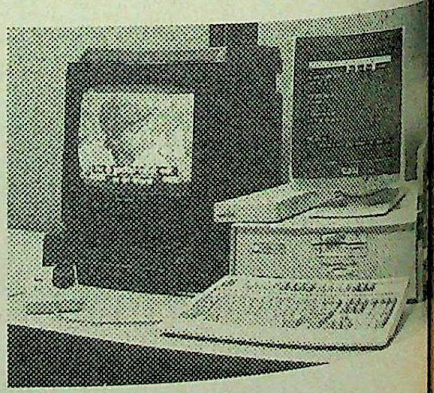
MULTIPROMPTER

Allows a news-reader to conveniently read news in English/Hi languages while shooting in front of the Camera.



GIST Terminals

are compatible with the popular DEC VT52/100/220/320 and ANSI terminals, and provide a multilingual interface for character- oriented application packages like *Lyrix, FoxBase, Word- Perfect,* and RDBMS packages like *Oracle, Ingres, Sybase* on UNIX, XENIX, VMS etc., with HGA display adapters.



LIPS

LIPS CREATION STATION

Allows interactive creation of multilingual Subtitles, fused as w electronically inserted.

GIST SHELL Library Software

This is the only software solution converting your existing text mode (80 x 25) DOS application to support multilingual capabilities.

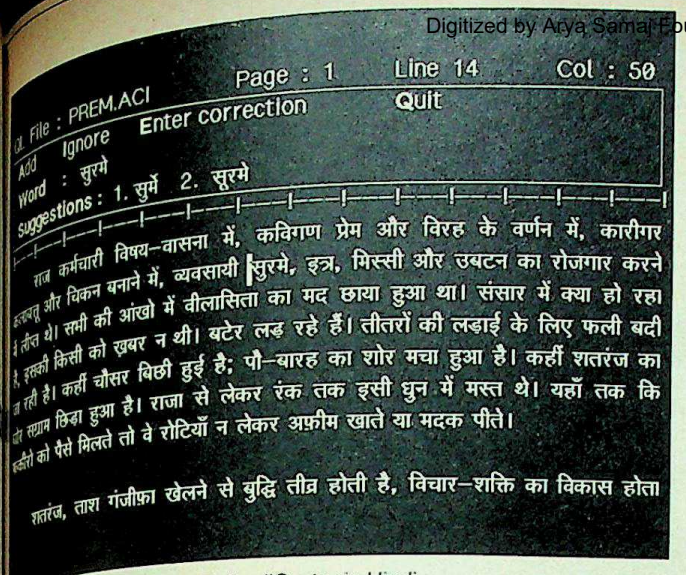
অ অঅঅঅঅঅ অ অ । থ অ অ অঅঅ অ অ অঅঅঅঅঅ অ অ । থ অ

AUTHORISED DISTRIBUTORS FOR GIST SOFTWARE **Ahmedabad:** Shreedip Services Pvt. Ltd. **(079)** Ph.:407173 Fx.:6425570 **Amravati:** D.P. Systems (072) Ph.:555902 **Bhopal:** Turning Point Systems **(0755)** Ph.:565147 Fx:558342 **Bhubaneshwar:** Oritech Systems Pvt. Ltd. **(0674)** Ph.:406180 Fx:405875 **Calcutta:** Graphics **(033)** Ph.:2206668 ■Rahul Commerce (P) Ltd. **(033)** Ph.:4408926 Fx.:4408935 **Chandigarh:** Alsun Systems **(0172)** Ph.:702589 Fax:700547 **Coimbatore:** Systems Ltd. **(0422)** Ph.:43916 **Guwahati:** S.M.Computer Consultants **(0361)** Ph.:522156 Fx:520348 **Hyderabad:** Keshava Technologies **(040)** Ph:218366 **Jaipur:** Systems **(0141)** Ph:382948 **Kanpur:** Quark Computers Pvt. Ltd. **(0512)** Ph.:217 **Kanpur:** Collection: Haridwar CO-O. IN Public Domain. Gurukul Kangri Fx.:546570 **Kolhapur:** Print Aid Centre (Pune) Pvt.Ltd. **(0231)** Ph.:672149 **Madras:**

Digitized by Arya Samaj Foundation Chennai and eGangotri

CDAC
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Gist
Nurturing the Living Languages

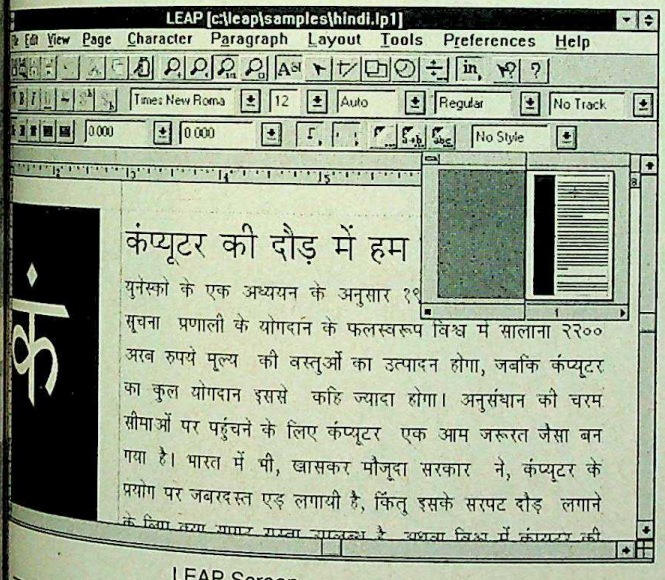


ALP Screen with SpellCaster in Hindi

APEX LANGUAGE PROCESSOR (ALP) for DOS/UNIX

Apex Language Processor is a multilingual word processor which allows you to do word processing in the language of your choice. Allows spell checking of documents in Hindi, Gujarati and Marathi.

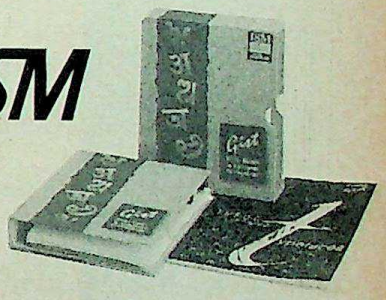
ISM on Page Maker Screen



LEAP Screen

LEAP

The Multilingual Word Processor under MS-Windows for aesthetic document preparations. It allows simultaneous usage of all Indian scripts with the spellchecking feature. It also incorporates the features of most popular English wordprocessor under Windows.



ISFOC Script Manager (ISM) for MS-Windows / Video Graphics / Macintosh

ISM is an Indian Language interface to applications running under **MS-Windows**.

ISM for Video Graphics is an Indian language interface for professional work in Video animation, titling and special effects. It can be used with 3D Studio, Topas, Animator, etc. Scripts available such as **Assamese, Bengali, Bhutanese, Devanagari, Gujarati, Kannada, Malayalam, Oriya, Punjabi, Sinhalese, Tamil, Tibetan & Telugu** along with a large number of aesthetic fonts for professional use.

CDAC
Gist
GROUP

For further details contact :

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
Ganesh Khind, Pune 411 007.
Tel.: (0212) 357020, 352461/79/83, 350484, Tlx.: 0145-7615 CDAC IN,
Fax.: 91-212-357551 e-mail: gist@cdac.ernet.in

All brand names and trademarks are properties of their respective owners.

Computers Pvt. Ltd. **(044)** Ph.:611641 Fx.:6413879 ■ Transmatic Systems Ltd. **(044)** Ph.:4990544 **Madurai:** Transmatic Systems Ltd. **(0452)** Ph.:27358 **Mumbai:** Lipi Data Systems **(022)** Ph:2882960 Fax:2873314 **New Delhi:** Alsun Systems **(011)** Ph.:6473306 Fx.:6438780 ■ C-three-i Systems Pvt.Ltd. **(011)** Ph.:6821533 Fx.:6843309 **Pune:** Data Informatics Pvt. Ltd. **(0212)** Ph.:449297 ■ CyberSpace Systems & Solutions Pvt.Ltd. **(0212)** Ph.:657342 Fx.:657342 **Raipur:** Priyanka Computer Services **(0771)** 556817 Fx.:534957 **Trivandrum:** Transmatic Systems Ltd. **(0471)** Ph.:433805 Fx.:432465 ●●● **BHUTAN, Thimpu:** Centre for Computer Application **(009752)** 20789 Fx.:22716 **Nepal:** Integrated Computer & Information Services **(009771)** Ph:410126 Fax:411642 **U.K., Huddersfield:** Lingua Languages Services **(0044484)** 529434 Fx.:689594 **U.S.A.:** Shree Computers, Inc. **(315)** Ph.:655-3204.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Range matters.

(Because wallets matter)

CALL US TO SUIT YOUR BUDGET !

AABHA

SYSTEMS SERVICES SOLUTIONS

AABHA MANAGEMENT SYSTEMS PVT. LTD.

22 A, MIG, Katwaria Sarai, Opp. Qutab Hotel, New Delhi - 110 016.
Ph.: 686 8923, 651 1740 Fax: 696 8767
E - mail: infotek.aabha@axcess.net.in

DEALER ENQUIRIES SOLICITED

All trade marks/trade names appearing in this advertisement are property of their respective owners.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

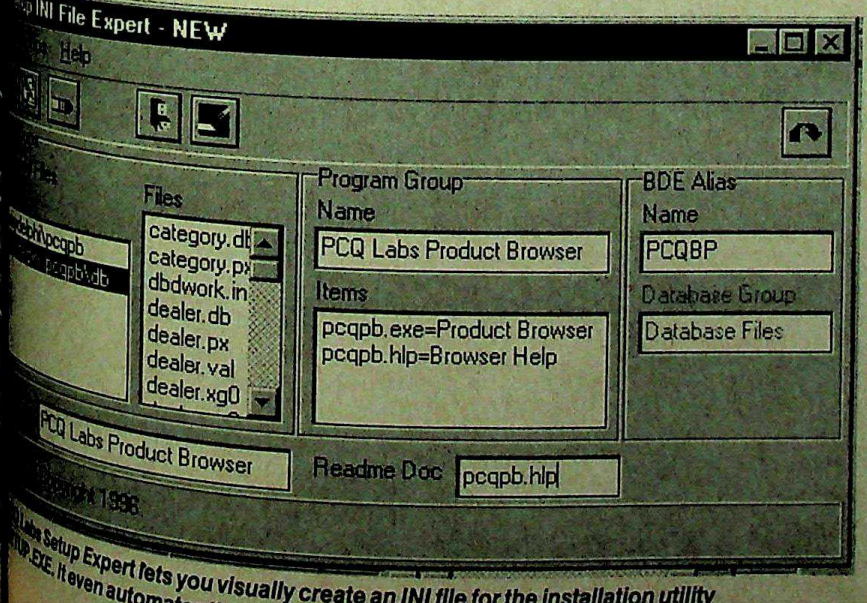
Digitized by Arya Samaj Foundation Chennai and eGangotri

PCQ Labs Setup.INI File Expert

An application to create the INI file from which the installation utility takes instructions

As promised, this month we present an installation INI file expert. The expert reduces the somewhat boring task of writing an INI file for PCQSETUP.EXE (See RAD in PCQ March 96) to a routine task, quite in the spirit of Delphi and RAD. This is a utility to the one that we presented last month so unless you have been through the earlier column you may not understand the following discussion.

You can use the visual interface of the expert to create File Groups for the files and specify other install information such as the Program Manager Group and items, the BDE alias, the documentation file and the application name. The expert will then write the INI file—PCQSETUP.INI—for you. The expert does not stop there. It lets you edit an existing INI file and it automates the process of creating the distribution disks. Equipped with the two utilities, PCQSETUP.EXE and PCQEXP.EXE you can say good-bye forever to the headaches of distributing your applications.



PCQ Labs Setup Expert lets you visually create an INI file for the installation utility PCQSETUP.EXE. It even automates the task of the creating the distribution disks

If You Are Not A Delphi Developer

Though this column targets Delphi developers, the utility that we present this month should be of interest to anyone who develops and distributes application. The utility along with the documentation and help

files is available for download from the DEV forum on PCQ Online as PCQWIZ.ZIP. The archive consists of

PCQEXP.EXE
PCQEXP.HLP
README.TXT

Oops

Before we proceed any further, we must admit to, and apologize for, two minor shortcomings, or even bugs, in the PCQSETUP utility. A new version of PCQSETUP.EXE which fixes these bugs, and adds an additional feature, is available for download from PCQ Online. The new version can automatically de-compress any file compressed with Microsoft's COMPRESS.EXE.

If you'd like the new version e-mailed to you please send a request on vkt@pobox.com. For those of you who don't have access to PCQ Online or an e-mail account we will point out the

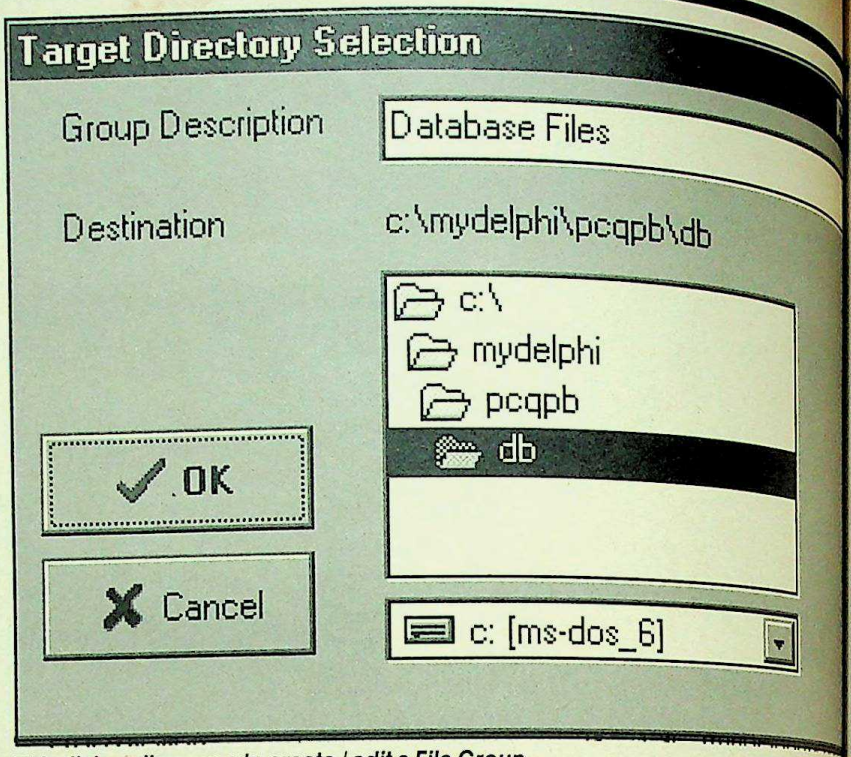
CC-0. Mumukshu Bhawan Varanasi Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

shortcomings below and trust you to write the patch up code yourself.

With the version that we presented last time you'd need to place a copy of the file PCQSETUP.INI on all you distribution disks. Otherwise the application would not be able to prompt you for a disk change after disk 2. Neither would it be able to create the Program Manager or the BDE alias. The patch up is obvious. At the start of the installation process, you'd need to copy the INI file to the hard disk and then delete it on completion of the installation.

In the unlikely event that you were to install any File Group to the root directory and that group had a file that was to serve as a program item, PCQSETUP.EXE would incorrectly put two backslashes after the drive letter in the command line for the program item. Study the code that creates the program item and correct it.



This dialog allows you to create / edit a File Group

The Main Interface

Let us first examine the interface of the Expert and get a feel of how it works. See the screenshot of the main form. At the top we have the menu, a feature that we haven't seen in our earlier utilities. Below it there is a power bar with speed buttons for a single click access to menu options. Some of the glyphs on the speed button don't ship with Delphi so you may need to substitute them with the ones that do ship with Delphi in your version.

Coming to the client area of the form we have three group boxes. The group box on the left is captioned 'File Groups' and contains the following components:

- Three label controls. One to display the name of the file group and others as labels for the list boxes.
- A list box to display the destination directories of the File Groups
- A list box to display the files within the File Group currently selected in the Destination directory list box.

As you scroll through the items in the Dest Dir list box the expert displays the list of files associated with the currently selected group in the Files list box changes. How we achieve this is interesting and the technique should come in handy on many subsequent occasions. The group box in the center is captioned **Program Group**. It has two main controls, an edit box to let you specify the name of the Program Manager Group that PCQSETUP should create after installing your application and an Items listbox below displays the program items and their associated names. There is an item each in the list box for every item in the Program Group. The third group box is captioned **BDE Alias**. It has two edit controls, one to specify the BDE alias that you'd like to create on the target machine and the other to specify the name of the file group that has the database files.

Below the three group boxes you have an edit box each to specify the name of the Application and the name of the documentation file. Detailed help on using the interface is available in the help file distributed with the application. Here we will briefly cover the steps involved so that we understand the subsequent code.

Creating/Editing File Groups

To create a file group you select the New menu item under the Groups menu or click the group speed button on the tool bar. This pops up a dialog box (See illustration) that lets you enter the name of the group in a edit box and allows you to select the destination directory using a drive combo and Directory list box combination. If you close the dialog box by clicking on its **Ok** button the expert adds an entry for the new group in the Dest Dir list box.

To edit an existing file group select the entry in the Dest Dir list and choose the Edit menu item from the Groups menu or click on the speed button on the Power Bar. The same dialog box that you used for creating a new File group now allows you to edit the currently selected entry.

To add files to a file group choose the Add Files menu item under the Groups menu. This will pop up Delphi's standard file selection dialog and let you select one or multiple files for adding to the Files list box.

To delete a file in the Files list box select the file and press the delete key or select Delete File menu item from the Groups menu, or click on the Delete file speed button on the power bar.

To delete a Group, select the group in the Dest Dir list box and press the delete key, or select Delete menu item from the Group menu, or click on the Delete group speed button on the tool bar.

Program Manager Group

If you want PCQSETUP to create a program manager group on completion of the installation, first specify the name of the group in the edit box and then insert items into the items list box below. You cannot enter items

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

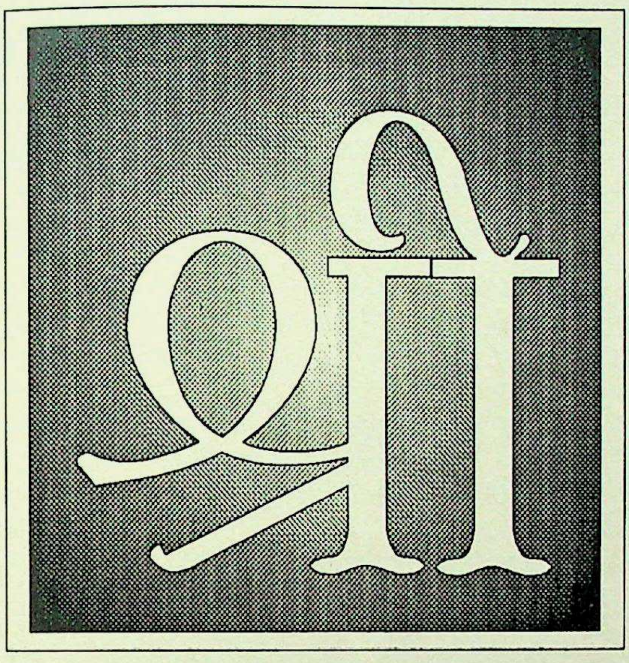
Digitized by Arya Samaj Foundation Chennai and eGangotri

OVER 1300 FONTS .. ALL INDIAN LANGUAGES...

DTP Solutions

OVER 6000 USER BASE ...
ON IBM 386/486 as well as Macintosh ...
WORKING UNDER WINDOWS-PAGEMAKER/CORELDRAW/VENTURA

Modular Systems has the largest library of fonts in Indian languages. You can have a unique choice of fonts. You can also have any two Indian languages of your choice in even the smallest package. Most popular windows applications like Pagemaker, Coreldraw, Ventura, MsWord are well supported. Even the smallest package comes with a built in multilingual text editor,



SHREE-LIPI

From

MODULAR SYSTEMS

format conversion utility and HP mirror printing utility. All these can be directly invoked from Windows. Shree-Lipi supports a large variety of popular keyboard layouts. Shree-Lipi fonts are also available on Macintosh platform. Using Shree-Lipi makes you a member of over 6000 satisfied Modular DTP software user base, who keep getting good after sales support.

26,Electronic Co-op.Estate,Pune-Satara Road
Pune 411 009, INDIA.
Tel.: (0212) 437994,423510 Fax: (0212) 425896, 452323

AUTHORISED DEALERS:

AMRAVATI: ◆M.M.Enterprises Ph-662567/661508 Gupta Sales & Services Ph-78165 **BANGALORE:** File Server Ph-6637564 **BARODA:** Cosmos Computer Services Ph-541473 **BHUBANESWAR:** Oricom Systems Ph-400343 ◆Lalani International Ph-402013 **BOMBAY:** Prografik Ph-3856044 ◆Embient Computers Ph-2612659 ◆A1 Systems Ph-4375484 **CALCUTTA:** Compu Care Ph-2444452 **CUTTACK:** Computer Lab Ph-612893 **DHULE:** Micro-Tech Computers Ph-20340 ◆PSP Enterprises Ph-25177 **GUWAHATI:** Analac Services Ph-571739 ◆Datamation Ph-548610 **GWALIOR:** Revon Reprographic Systems Ph-328927 **HUBLI:** Computech Graphics Ph-53064 **HYDERABAD:** Anu Graphic Systems Ph-230576 **INDORE:** Veltronics Ph-430194 ◆The Software People Ph-493561 **JAIPUR & RAJASTHAN:** Nirmal Kumar Mani Kumar Ph-311420 **KOLHAPUR:** Real-Time Computers Ph-663662 **MADRAS:** Anu Graphic Systems Ph-4344594 ◆Picatype Ph-4330783 **MALKAPUR:** Excel System and Services Ph-22625 **NASIK:** Arvind Computers Ph-72673 ◆ Pratik Microsystems Ph-576550 **PHALTAN:** Alfa Computers Ph-3126 **PUNE:** G.J.Ghaisas & Co. Ph-321825 ◆DSS Ph-622501 ◆Picatype Ph-620154 ◆Priya Informatics (p) Ltd. Ph 449297 ◆Heera Computers. Ph 457188 **ROURKELA:** Unitech Engineers Ph-8267/893127 **SANGLI:** Computer Systems Ph-77019 ◆Digicomp Systems Ph-340286 ◆Karan Computers Ph-76348 ◆Shri Computers Ph-74597 **SOLAPUR:** Skylark Computer Centre Ph-20537 **ULHASNAGAR:** Super Computers Ph-550095

NATIONAL DISTRIBUTORS: CIRRUS ELECTRONIC SYSTEMS LTD.
Cirrus Chambers, Kamala Height, 433, Somwar Peth,
Pune- 411001 Tel. : 633226 / 632236 / 630237 Fax: 0212-631132

Branch Offices / Service Centres:
AHMEDABAD: 449694 BANGALORE: 3320083 BOMBAY: 4943544 / 4933950 COCHIN: 361023
HYDERABAD: 294985
KANPUR: 217598 / 297327 MADRAS: 8274938 NAGPUR: 531414 SURAT: 32055

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

items list box unless you assign a name to the program group. An item in the program group can only come from the files that you install on the target machine.

Therefore, the file must be in one of the file groups. Select a file in the Files list box and double click it. The expert will prompt you for the name of the program item and then insert an entry such as 'PCQBP.EXE=PCQ Labs Product Browser', where PCQBE.EXE is the program item and 'PCQ Labs Product Browser' is the name of the program item in the Program group. To delete an entry in the Items list box select the entry and press the delete key.

The BDE Alias

The setup program, PCQSETUP, can create a BDE alias on the target machine if you specify the name of the Alias and the file group it must point to. In the interface you have direct access only to the Name edit box. The Database Group edit box is disabled to protect the integrity of the information entered..

First specify the name of the alias and then in the Dest Dir list box of 'File Groups' double click the entry that represents database files. The expert will automatically insert the name of the file group in the Database Group edit box. It is the name of the database group, and not the directory, that is written to the INI file since the destination of the database group files can be changed by the user during installation.

Application Name And Documentation File

For both, the Application Name and the Readme Documentation you need to manually type in the information. The entry in the Readme Doc edit box should be a file with a HLP, WRI or TXT extension, from one of the file groups to be installed on the target machine. (It is possible to take advantage of visual techniques such as drag and drop to move a file from the Files list box to the Readme Doc edit box. This would make entering information simpler and less error prone. However, we chose not to implement it in order to limit the size of the code. We leave it as an exercise for the reader. You may refer to the RAD column in the Jan issue of PCQ on how to use Drag and Drop).

Can We Have Some Action Please?

Having understood how the expert interfaces with the user let us RAD it!

Create a new directory for the project e.g. c:\mydelphi\pcqexp.

Start Delphi and create a new project. Name the blank form as 'GroupsDlg'

Place two panel components on the blank form. One of them serves as the Status Panel. You'd need to make the following changes to its properties.

```
Name = StatusPanel
Align = alBottom
Alignment = taLeftJustify
BevelInner = bvLowered
Caption = ''
```

The other Panel component serves as the Power Bar. Make the following changes to its properties

```
Align = alTop
BevelOuter = bvLowered
Caption = ''
```

Select the Powerbar panel and place three speed button components on it. Name them, from left to right as 'NewGroupBtn', 'GroupEditBtn' and 'GroupDeleteBtn'. Select appropriate glyphs for them.

Creating The File Group

Place a group box component on the blank form of the project and set its caption property to 'File Groups'. With the group box selected place two list box components and three label components within it. Set the caption of the label component that displays the Group Name to 'Group Name' and name it 'GroupNameLbl'. For the other two label components set the captions to 'Dest Dir' and 'Files'. Position and size the components as in the screen shot. Name the Dest Dir list box as 'GroupList' and the Files list box as 'FileListBox'.

Save your work. Name the unit as 'Groups'. Name the project as PCQ-EXP.DPR.

Creating The Program Group

Place another group box component next to the File Group and set its caption property to 'Program Group'. With the group box selected place an Edit, a list box and two label components it. Set the captions of the label nents to 'Name' and 'Items' and and size the components as in the shot. Name the edit box as 'Pgrou and the list box as 'ProgItemsL Set the text property of the edit

Creating The BDE Alias Grou

Place the third group box co to the right of the Program Gro set its caption property to 'BDE Within it place two edit and components each. Set the capti the label components to 'Name 'Database Group' respectively. the two edit components as NameEdit and AliasGroupEdit. S Text property of both the compo to ''. Position and size the compo as in the screen shot. Set the properties for the AliasGroupEdi ponent and the label captioned base Group' to false. Below the groups place two label and components each on the form. S label captions to 'App Name' and me Doc'. Name the edit compone 'AppNameEdit' and 'DocFileEdi set their text properties to ''. A them as shown in the screen sh

Non-Visual Components

The expert uses Delphi compo that are not visual at run time OpenDialog and SaveDialog c nents. Drop one each on the form with that we are ready to code. S Filter property of SaveDialog1 to

```
Files (*. INI)|*.INI
lets code!
```

Application Constants

We will be using some const our applicaton. Place the follow below the uses section in the part of the unit.

```
const
    PgmSection = 'GROUPS';
    FormCaption = 'Setup
Expert';
    CopyrightStr = 'PCQ
Copyright 1996';
    SetupApp = 'PCQSETUP.EX

type
  EDiskFullError = class(E
```


CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ing The File Group List With File List

s we learnt while creating the icon er, the items in a Delphi list box e associated with objects. In the grabber we associated the icons Bitmap objects. In this application ill associate the items in the eList list box with a user defined . Place the following code after the EDiskFullError declaration.

```
ype
TGroup = class(TObject)
 Description: String;
 Destination: TFileName;
 FileList: TStringList;
rivate
ublic
  constructor Create(Descript:
);
 destructor Destroy;
nd;
```

the implementation part write the r the two public methods Create Destroy.

```
tructor TGroup.Create(Descript:
);
gin;
FileList := TStringList.Create;
scription := Descript;


tructor TGroup.Destroy;
gin
FileList.Free;
```

TGroup object stores information a file group. It has a field called of type TStringList that stores es of the files within a group. ntry in the Dest Dir list box is ed with a TGroup. The files the FileList field of the Group are d in the Files list box.

oup Create/Edit Dialog

Expert uses just two forms—the rm that we have just created alog to let the user create/edit oup. The second form is the the DirSelDlg form that we for PCQSETUP. All we need to it into the project. Also, in the ntation section of the unit add

```
Dlgs, IniFiles, FmxUtils;
```

We used FmxUtils last time also. The unit is part of a sample application that ships with Delphi and provides some handy file management routines. (Those of you who are new to the RAD column would need to get a copy of the March issue of PC Quest or create the form on your own.)

We now have all the components to create and edit the file groups. Lets go through the code that links them together.

The event handler for the OnClick event of the 'NewGroupBtn' handles the job of creating a new file group.

```
  procedure TGroupsDlg.NewGroupBtn
Click(Sender: TObject);
  var
    NewGroup: TGroup;
    Dir: TFileName;
  begin
    DirSelDlg.ShowModal;
    if DirSelDlg.ModalResult <> mrOk
then
      Exit;
    Dir := DirSelDlg.Label1.Caption;
    if (DirSelDlg.GpDescriptEdit.Text
<> '') and
    (GroupList.Items.IndexOf(Dir) = -
1) then
    begin
                        NewGroup    :=
TGroup.Create(DirSelDlg.GpDescriptEdit.Text);
      try
              NewGroup.Destination  :=
LowerCase(Dir);
        GroupList.Items.AddObject(Dir,
NewGroup);
        GroupList.Update;
      except
        NewGroup.Free;
        raise;
      end;
      Changed := True;
    end;
  end;
```

The event handler displays the Group Create/Edit dialog to let the user enter a group name and select the destination directory for the file group. If the user closes the dialog box by clicking the Ok button we make sure the group has a name and another group does not have the same destination. If all is well we create a new group and associate it with a new entry in the GroupList listbox. (See the Delphi online help for the AddObject method if you don't understand the code) Finally, we set the Boolean variable Changed to True. We haven't yet declared this variable as yet so let us declare it now. Place the following entry in the Private section of the TGroupDlg object.

```
  Changed: Boolean;
```

The event handler for the OnClick event of the GroupEditBtn has the code that lets us edit an existing File Group entry.

```
  procedure TGroupsDlg.GroupEditBtn
Click(Sender: TObject);
  var
    Group: TGroup;
  begin
    with GroupList do
      if (ItemIndex > -1) then
                          Group    :=
(Items.Objects[ItemIndex]) as TGroup
      else
        Exit;
    with DirSelDlg do
    begin
      DirectoryListBox1.Directory :=
Group.Destination;
        GpDescriptEdit.Text  :=
Group.Description;
      if ShowModal = mrOk then
      begin
              Group.Destination  :=
DirectoryListBox1.Directory;
              Group.Description  :=
GpDescriptEdit.Text;
            GroupNameLbl.Caption  :=
Group.Description;
    GroupList.Items[GroupList.ItemIndex]
:= Group.Destination;
        Changed := True;
      end
    end;
  end;
```

This handler also uses Group Create/Edit dialog and is straight forward. We load the dialog with the existing values and if the user closes the dialog box with the Ok button we update the existing values.

The handler for the OnClick event of the GroupDeleteBtn lets us delete an existing group.

```
  procedure TGroupsDlg.GroupDeleteBtn
Click(Sender: TObject);
```

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SLEEPLESS NIGHT

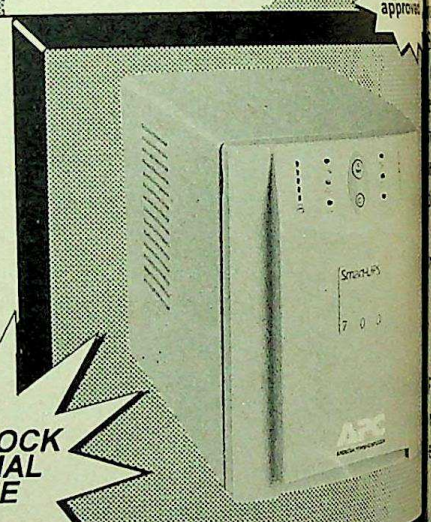
Thinking of Valuable Data on Server

HAVE PEACE OF MIND THROUGH

SMART - UPS

SMART SOLUTION FOR SERVERS

ISO 9002 approved



A) INTELLIGENT INTERFACE WITH SERVERS
B) COMPATIBLE WITH MOST NETWORK OPERATING SYSTEMS
C) MULTIPLE SERVER SUPPORT
D) INTELLIGENT BATTERY MANAGEMENT
E) SUPPORT FOR SNMP
F) PURE SINE WAVE OUTPUT
G) SUPPORT GENERATOR POWER

Range 250 - 5000 VA

EX-STOCK SPECIAL PRICE

yes NetWare Tested and Approved

Solaris COMPATIBLE

Lotus. BUSINESS PARTNER

Microsoft LAN MANAGER CO-DEVELOPER

yes It runs with UnixWare

ARTISOFT COMPATIBLE LANtastic

Microsoft SOLUTION PROVIDER

APC PRODUCTS HAVE WON MORE AWARDS FOR PERFORMANCE THAN ALL OTHER UPS VENDORS COMBINED!

APC™
AMERICAN POWER CONVERSION

BROUGHT TO YOU IN INDIA BY

VIDUR & CO. PVT. LTD.

707, Manjusha, 57, Nehru Place, New Delhi-110019
Phone : 6223085, 6404215, 6404216, Fax : 6215

SALES & SERVICE SUPPORT AVAILABLE IN ALL MAJOR CITIES

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

```
with GroupList do
 if (ItemIndex > -1) then

.List.Items.Objects[GroupList.ItemIndex].Free;
   Items.Delete(ItemIndex);
   FileListBox.Clear;

 end;
end;
```

ding The Form Menu

e hope you have been saving your k periodically. Its time to add a u for our application. Drop a main u object and construct a menu as ws. The menu bar should have e items with captions & File, & ups and &Help. Under the File menu te menu items with captions &New, pen, &Save, Save &As, Create & ss and E&xit. Under the Groups u create menu items with captions w, &Edit, &Delete, -, &Add Files d Delete &Files.

Under the Help menu create menu s with captions &Contents and & ut.

Since we are currently working with Groups we will first write the menu associated with the File Groups. ever, before we do that let us add e more declarations to the Private on of the TGroupsDlg object

```
rivate

  LoadedIniFile: TFileName;
                    procedure
romIniFile(IniFileName: TFileName);
rocedure DisplayHint(Sender:
ect);
  function SaveAndInit: Boolean;
  procedure FreeGroups;
```

om here onwards your code will ompile till we have coded the private ods that we have just declared. we will store the name of the ully loaded INI file in the variable dIniFile. The method DisplayHint s as the event handler for the cation hint event. (Refer to Icon application in the Jan 96 issue of Quest). Its implementation is as ws:

```
ocedure TGroupsDlg.DisplayHint
der: TObject);
gin
  with StatusPanel do
    if Application.Hint <> '' then
    Caption := Application.Hint
    else
      Caption := CopyrightStr;
end;
```

We will cover the implementations of the other methods later. Let us get back to the menu code.

File|New Menu Option

The New menuitem under the File menu loads a new file.

```
procedure TGroupsDlg.New1Click
(Sender: TObject);
  var
    I: Integer;
    Ret: Word;
  begin
    {if the user selected cancel on
being prompted to save}
    if not SaveAndInit then
      Exit;
    LoadedIniFile := 'NEW';
  end;
```

It calls the private method SaveAndInit. Write its implementation as follows:

```
function TGroupsDlg.SaveAndInit:
Boolean;
  var
    Ret: Word;
  begin
    SaveAndInit := False;
    {If there have been changes warn}
   if Changed and (GroupList.Items.Count
> 0) then
    begin
      Ret := MessageDlg('Save Changes
before opening new file', mtConfirmation,
        [mbYes, mbNo, mbCancel], 0);
      Case Ret of
        mrCancel: Exit;
        mrYes: Save1Click(Self);
      end;
    end;
    GroupNameLbl.Caption := '';
    FreeGroups;
    PgmGpEdit.Clear;
    ProgItemsListBox.Clear;
    AliasNameEdit.Clear;
    AliasGroupEdit.Clear;
    AppNameEdit.Clear;
    DocFileEdit.Clear;
    Changed := False;
    SaveAndInit := True;
  end;
```

SaveAndInit method prompts the user to save the INI file if changes have been made to it. If the user okays the suggestion it calls the OnClick event handler for the Save menu item, passing Self as an argument. We will see the code for this event handler in a short while. The method also calls another private method FreeGroups which frees the TGroup objects associated with the items in the Group List listbox. Just clearing the list does not free the associated objects. Add this code for FreeGroups in the implementation section.

```
procedure TGroupsDlg.FreeGroups;
var
  I: Integer;
begin
  if GroupList.Items.Count > 0 then
  begin
    FileListBox.Clear;
    with GroupList.Items do
      for I := 0 to Count - 1 do
        (Objects[I] as TGroup).Free;
    GroupList.Clear;
  end;
end;
```

File | Open Menu Option

Next we code the event handler for the File|Open menu item as follows:

```
procedure TGroupsDlg.Open1Click
(Sender: TObject);
  var
    Ret: Word;
  begin
    {If the user chose cancel when
prompted to save}
    if not SaveAndInit then
      Exit;
    with OpenDialog1 do
    begin
        Filter := 'Ini Files
(*.INI)|*.INI';
      Title := 'Setup Initialisation
File';
        Options := Options
[ofAllowMultiSelect];
      if Execute then
        LoadedIniFile := FileName;
      ReadFromIniFile(LoadedIniFile);
```


CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

```
      Caption := FormCaption + ' - ' +
ExtractFileName(LoadedIniFile);
    end;
  end;
```

The handler first calls SaveAndInit. It then sets up Delphi's Open File dialog to view only the INI files and then displays it. If the user closes the dialog by clicking the Ok button it sets the LoadedIniFile private variable to the name of the file selected and calls the ReadFromIniFile private method passing it the LoadedIniFile variable as an argument. ReadFromIniFile is a heavy duty private method whose code runs as follows:

```
  procedure TGroupsDlg.ReadFromIniFile
(IniFileName: TFileName);
  var
    IniFile: TIniFile;
    Group: TGroup;
    I: Integer;
  begin
    if not FileExists(IniFileName) then
      Exit;
                  IniFile        :=
TIniFile.Create(IniFileName);
    try
      {Read File Group}
      with GroupList do
      begin
       IniFile.ReadSection(PgmSection,
Items);
        if Items.Count > 0 then
         for I := 0 to Items.Count - 1
do
          begin
  Group := TGroup.Create(Items[I]);
           try
                Group.Description :=
IniFile.ReadString(PgmSection, Items[I],
'');
  Group.Destination := Items[I];
       IniFile.ReadSection(Items[I],
Group.FileList);
          GroupList.Items.Objects[I]
:= Group;
           except
             Group.Free;
             raise;
           end;
         end;
      end;

      {Read Program Group Items}
  PgmGpEdit.Text := IniFile.ReadString
('ProgmanGroup', 'Name', '');
      with ProgItemsListBox do
      begin
    IniFile.ReadSection('ProgmanGroup',
Items);
        if Items.Count > 0 then
        begin
          {Delete the Name entry that
we have already read}
          Items.Delete(0);
          {We display the Items with
the values}
          for I := 0 to Items.Count -
1 do
           Items[I] := Items[I] + '='
+ IniFile.ReadString('ProgmanGroup',
Items[I], '');
        end;
      end;

      {Read BDE Alias Info}
          AliasNameEdit.Text  :=
IniFile.ReadString('BDE', 'Alias', '');
          AliasGroupEdit.Text  :=
IniFile.ReadString('BDE', 'Group', '');
       if AliasGroupEdit.Text <> ''
then
       AliasGroupEdit.Enabled := True;

      {Read Misc Options}
           AppNameEdit.Text  :=
IniFile.ReadString('Misc',
'Application', '');
           DocFileEdit.Text  :=
IniFile.ReadString('Misc', 'DocFile',
'');
    finally
      IniFile.Free;
    end;
  end;
```

Though the code is long the logic is straightforward. (For explanation on reading and writing INI files see RAD in the Jan issue of PC Quest) The only point of interest is the way the code creates a TGroup object for every File Group and then associates it with an item of GroupList.

File | Save Menu Option

We have seen how the expert reads an INI file. Let us now write the code that lets it create an INI file.

```
  procedure TGroupsDlg.Save1Click
(Sender: TObject);
  var
    I, J: Integer;
    IniFile: TIniFile;
    BackupFile: TFileName;
    StringList: TStringList;
  begin
    if LoadedIniFile = 'NEW' then
      Save As1Click(Sender);
    if (GroupList.Items.Count = 0)
    begin
        MessageDlg('No file
specified', mtError, [mbOK], 0);
      Exit;
    end;
    if FileExists(LoadedIniFile)
      DeleteFile(LoadedIniFile);
                  IniFile
TIniFile.Create(LoadedIniFile);
    try
      with GroupList do
      begin
       for I := 0 to Items.Count -
        begin
       IniFile.WriteString(PgmSection,
Items[I],
                (Items.Objects[I] as
TGroup).Description);
                  StringList :=
(Items.Objects[I] as TGroup).FileList;
         for J := 0 to StringList.Count
- 1 do
         IniFile.WriteString(Items[I],
StringList[J], '');
        end;
      end;
      {Reset flag}
      Changed := False;
      {Write the optional section}

      {Program Group}
      with ProgItemsListBox do
        if Items.Count > 0 then
        begin
      IniFile.WriteString('ProgmanGroup',
'Name', PgmGpEdit.Text);
        for I := 0 to Items.Count - 1
do
      IniFile.WriteString('ProgmanGroup',
Copy(Items[I], 1,
                Pos('=',Items[I]) - 1),
                Copy(Items[I], Pos('=',
Items[I]) + 1,
                Length(Items[I]) -
Pos('=', Items[I])));
        end;

      {BDE Alias}
      if AliasGroupEdit.Text <> ''
      begin
          IniFile.WriteString('BDE',
'Alias', AliasNameEdit.Text);
          IniFile.WriteString('BDE',
```


CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVANTAGE

Intelligent Anti-Virus Toolkit

selected to be on guard for protection of the New Delhi Online Trading System by

DELHI STOCK EXCHANGE

after an expert evaluation. The others evaluated were

Norton Anti Virus, Dr. Solomon Toolkit, Nashot, Red Alert, etc.

1000+ installations at one of the premier Stock Exchanges of the country

IAVT passed tough selection criteria because it offers features like :

Releasing **ALL NEW** Generic File Scanner & Cleaner

- STOP VIRUS BEFORE DOS
- VIRTUAL INDICATOR (IBVC)
- GENERIC SCANNER
- CLEAN WITHOUT CLEAN DOS
- GENERIC BOOT/PARTITION VIRUS CLEANER
- CLEAN FILE VIRUSES WITHOUT DESTROYING FILES
- CLEAN MULTIPARTITE/POLYMORPHIC VIRUSES
- STOP VIRUS WHILE COPYING/OPENING OF ANY FILE
- 100 % INDIAN & ONLINE UPDATES/SUPPORT AVAILABLE
- INSTANT PROTECTION AGAINST INFECTIONS FROM FLOPPIES

STOP VIRUS BEFORE DOS

IAVT

Protect Your Computer Intelligently

FEATURES	IAVT	RED ALERT	NASHOT
GENERIC B/P CLEANER	YES	NO	NO
GENERIC FILE SCANNER	YES	NO	NO
VIRTUAL INDICATOR (IBVC)	YES	NO	NO
CLEAN WITHOUT CLEAN DOS	YES	NO	NO
STOP VIRUS WHILE COPYING	YES	NO	NO
CLEAN FILE VIRUSES WITHOUT DESTROYING FILES	YES	NOT ALWAYS	NOT ALWAYS
THREE YEAR WARRANTY	YES	NO	NO
PRICE (In Rs.)	1888.00	3000.00	N/A

All names are property or copyright of their respective companies. The above comparison is between IAVT Ver 3.01, Red Alert Ver 4.0 & Nashot Ver 17.0

FIFTH GENERATION™

Fifth Generation Software Limited

Corporate Office : 140, Zamrudpur, Nehru Mkt, Opp. LSR College, New Delhi - 48 Ph : 6210808, 6229805, 6452200 -2201 -2202 Fax : 6210580 ; Registered Office : 5, Ashoka Park (Main), Rohtak Road, Delhi - 35. Ph : 5103299, 5458018
Mumbai : Raj Villa 2, Outpost Military Camp, Vakola, Santa Cruz (East), Mumbai - 400029 Phone/Fax : 6185669 Ahmedabad : 27, Vijay Complex, Vasna, Ahmedabad - 380007 Phone/Fax : 415770
Secunderabad : 95C, Siddamsetty Complex, Park Lane, Secunderabad - 500 003 Phone : 814816, 812378, 847838, 847994
NOW !! Also available at : HCL-Frontline Super Store : Madras - 8231662, 8231663; Delhi - 6423503, 6424779

Amritsar : Computer Associates - 228769, Bangalore : Link Systems - 3350389, Namratha Electronic Centre - 6619116, Bhopal : I.D.E.A. - 552134, Bombay : Gem Elecomp - (0251)-471322, Gripp Computer Services - 5341301, H.T.P. Systems - 8729989, Micro-Tech Enterprises - 5426728, Sainath Overseas - 4943585 Calcutta : Jain Computech - 2394374, Lalani International - 260441, 260442, 264819 Delhi : Ansun Electronics - 6414613, BPB Publications - 3325760, Computer Zone - 6462068, Computer Professionals - 6449960, First Computers - 2415743, Lotus Graphics - 6418046, P. K. Traders - 5550656, Omniscent Computers - 5731185, Shivom Computers - 5512815, Softman Computers - 6483376, Vikmans Peripherals - 6429547, Goa (Mapusa) : Spectrum Software & Services - 250405, Jabalpur : The Computer Shoppe - 25216, Jaipur : MicroPlus Computers - 317800, Computer Jyoti - 514107 Hyderabad : NetCom - 547618, Jalandhar : Software Solutions- 238476, Lucknow : Rakshit Computers - 240895, Madras : Devraj Computers - 8525856, Moradabad : XL' Brain Computers - 317769, Patna : Shree Sati Computers - 659806, Indore : M. K. Electronics - 435428, Varanasi : Computer Shoppe - 362566, Surat : Nemji Services - (0261)-426484, Vapi : Dynamic Computers - (02638)-32645 Vijaywada : Andhra Computer Services - 431707,

DEALERS/DISTRIBUTORS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PROTECTOR PLUS ver 5.0

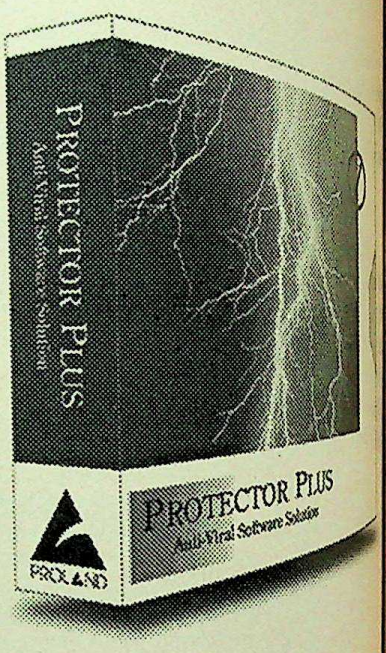
Anti-viral Software Solution

Compatible with:

- Windows 95
- Windows 3.1
- MS-DOS
- Novell-DOS
- OS/2

Introducing **Protector Plus ver 5.0**. The anti-viral software solution for stand-alone PCs. Its installation immunises the system against virus infiltration. Unlike other products in the anti-virus category that largely depend on a scan routine to detect the presence of virus, **Protector Plus** has on-line virus prevention system working round-the-clock.

- All types of boot viruses—known or unknown are automatically eliminated. Boot sector and partition table can be rebuilt.
- Monitors system for viral-like activity, preventing new file viruses from entering the system.
- Can detect changes in status of files and reconstruct them to their original state.
- Scans all files accessed, through any operation—read, write, copy, install, download, unzip, execute, etc...
- Select directories or entire drives can be scanned automatically at pre-scheduled intervals.
- Extensive and exhaustive reports on viral activity and scan results.



Anti-Viral Software Solution

PROLAND

Write, call or fax us for further information on this exciting new anti-viral software

PROLAND SOFTWARE PVT. LTD.,
19, Gangadhar Chetty Road, Bangalore-560 042
Phone: (080) 570033, 5511091 Fax: (080) 5511091
E-mail: subbu.proland@axcess.net.in

WE PRODUCE INTELLIGENT SOLUTIONS

Protector Plus For NetWare
Your Future Proof Solution to virus problems
yes It runs with NetWare

Distributors:
ADIT MICROSYS (P) Ltd., **Ahmedabad** Tel: 079-408045, Telefax: 6425256
ANSI SYSTEMS (India) Pvt. Ltd., **New Delhi** Tel: 011-6863287, 6854196 Telefax: 6968663

Dealers:
Ahmedabad: Manan Enterprises Tel: 490338, Fax: 493-406; Bhavi Electromech, Telefax: 6633234 **Bombay:** Software Consultancy Group, Tel: 022-4301175/4302072, Fax: 4224912, E-Mail: bombay.scg@axcess.net.in **Coimbatore:** D.S.C. Systems, Tel: 0422-212328 **New Delhi:** R.R. Computers, Tel:7510479 Astra Infotech, Tel: 6222191, Fax: 6447252 **Goa:** [illegible] **Ernakulam:** Spiegel, Tel: 348202 **Gangtok:** Sikkim Computer Services (P) Ltd., Tel: 03592-22279, Fax: 22543 **Hubli:** Tolas Electronics, Tel: 65 227 **Hyderabad:** Susha Technologies Tel: 391954, Enterprises Tel: 0832-736262/3 Fax: 243634; **Jamshedpur:** Engineers & Consultants, Tel: 0657-29655, Fax: 26450 **Kanpur:** Jyothi Electro-Mech, Tel: 310811 **Kochi:** Spiegel, Tel: 0484-348202, Fax: 370136 **Ludhiana:** Litratim Microspecialities, Tel: 0161-456891 455860 **Madras:** Software Consultancy Group, Tel: 044-4340942, 4342938 Telefax: 4348912 **Nagpur:** Datacode Computer System, Tel: 221128, Fax: 236398 **Poona:** Link Software & Systems (P) Ltd., Tel: 335988/349342, Fax: 212-365694. **Punjab:** Rihal Computer Services, Tel: 01882-26294, 22385 **Rajkot:** Softrak Computer Consultancy Tel: 48840 **Secunderabad:** Software Consultancy Group, Tel: 816216, 817075, 867039, Fax: 817075 **Trivandrum:** D.C. Computer Systems Pvt. Ltd., Tel: 471-62094

DEALERSHIP ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

```
Group', AliasGroupEdit.Text);
  end;
  {Misc Section}
  if AppNameEdit.Text <> '' then
    IniFile.WriteString('Misc',
Application', AppNameEdit.Text);
  if DocFileEdit.Text <> '' then
    IniFile.WriteString('Misc',
DocFile', DocFileEdit.Text);
  finally
  { Free the ini file object }
  IniFile.Free;
  end;
end;
```

Once again the code is long. The point of interest here is that we recreate the INI file every time we save it. This makes the coding simple.

File | Save As Menu Option

If all this code has left you somewhat breathless there is some good news for you. But for one more heavy duty event handler what follows is short and straightforward. Here is the event handler for the Save As menu item under the File menu.

```
procedure TGroupsDlg.SaveAs1Click
(Sender: TObject);
begin
  if SaveDialog1.Execute then
  begin
        LoadedIniFile    :=
SaveDialog1.FileName;
    Save1Click(Sender);
  end;
end;
```

Other Menu Options

We will leave the Create Disks menu option for the time being and instead write some simpler event handlers. The Exit menu option simply closes the form.

```
procedure TGroupsDlg.Exit1Click
(Sender: TObject);
begin
  Close;
end;
```

To make sure that the user does not loose unsaved information write the following event handler for the Form-Close event

```
procedure TGroupsDlg.FormClose
(Sender: TObject; var Action: TClose
Action);
  var
    I: Integer;
  begin
   if Changed and (GroupList.Items.Count
> 0) then
       if MessageDlg('Save Changes',
mtConfirmation, [mbYes, mbNo], 0) =
mrYes then
        Save1Click(Sender);
    FreeGroups;
  end;
```

Notice the call to FreeGroups to free the memory that we allocated.

The code for the on click events of the GroupBtn, GroupEditBtn and GroupDeleteBtn speedbuttons is also shared by the handlers of the OnClick events for Group|New, Group|Edit and Group|Delete menu items respectively. You'd need to associate the handler accordingly.

Additional File Groups Handling Code

When the user clicks on an item in the Group List the expert displays the files associated with the group in the Files listbox.. Here is the event handler for the OnClick event that does this.

```
  procedure TGroupsDlg.GroupListClick
(Sender: TObject);
  begin
    with GroupList do
      if (ItemIndex > -1) then
      begin
            FileListBox.Items  :=
(Items.Objects[ItemIndex]    as
TGroup).FileList;
          GroupNameLbl.Caption  :=
(Items.Objects[ItemIndex]    as
TGroup).Description;
      end
      else
        FileListBox.Clear;
  end;
```

We have earlier seen the code, attached to the GroupDeleteBtn that deletes the currently selected group in the Group List. You can also delete an item by pressing the delete key.

```
  procedure TGroupsDlg.GroupListKey
Down(Sender: TObject; var Key: Word;
    Shift: TShiftState);
  begin
    if (Key = VK_DELETE) then
      GroupDeleteBtnClick(Sender);
  end;
```

As discussed earlier a double click on an item in the GroupList inserts the description of the group into the AliasGroupEdit.

```
  procedure TGroupsDlg.GroupList
DblClick(Sender: TObject);
  begin
    with GroupList do
        if (ItemIndex > -1) and
(AliasNameEdit.Text <> '') then
      begin
          AliasGroupEdit.Text  :=
(Items.Objects[ItemIndex]    as
TGroup).Description;
        Changed := True;
      end;
  end;
```

Let us now add two speed buttons to handle the file list. With the PowerBar selected place two speed buttons within it. Name them 'NewFileBtn' and 'DeleteFileBtn' respectively. Select appropriate glyphs for them. Write the following event handler for the OnClick event of the 'NewFileBtn':

```
  procedure TGroupsDlg.NewFileBtnClick
(Sender: TObject);
  var
    I: Integer;
    FileList: TStringList;
  begin
    if (GroupList.ItemIndex > -1) then
      with OpenDialog1 do
      begin
       Filter := 'All Files (*.*)|*.*';
        Title := 'Setup Initialisation
File';
          Options  :=  Options  +
[ofAllowMultiSelect];
        if Execute then
          with GroupList do
                                  if
Items.Objects[ItemIndex] <> nil then
            begin
                      FileList  :=
(Items.Objects[ItemIndex]    as
TGroup).FileList;
  for I := 0 to Files.Count - 1 do
  ifFileList.IndexOf(LowerCase(Extract
FileName(Files[I]))) = -1 then
  FileList.Add(LowerCase(ExtractFileName
(Files[I])));
```


CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Your multimedia educational CD school is here!

Soon Available for Macintosh

Dealership Enquiries Solicited

Seaware Multimedia Software available on floppy and CD.

- Nursery Park Series (for kids 3-5 years)
- Primary Park Series (for kids 5-8 years)
- Maths Series (for classes 6 to 10th)
- Science Series(Phy, Chem, Bio for classes 6-8th)
- General Series(Evaluators and Computer Language quiz)
- English Series (Grammar and parts of speech for ages 5 to 15)
- Competitive Exams for admissions (GRE, GMAT,IIT, Medical)
- Competitive Exams for jobs (IAS, Bank PO etc.)
- Management Series (Marketing, Personnel, Finance etc)
- Puzzle Series (Games & Puzzles for kids 5 to 15 years)

Write for a free catalogue to:

INNOVATION SOFTWARE EXPORTS LIMITED

II Floor, Rathna Building , 581, Mount Road, Madras - 600 006. INDIA,
Tel: 044-4349443, 4349924 Fax: 044-4349505, 8252828

Available at: **Bangalore:** Saitek, Tel:2239467; **Bombay:** Lan Multimedia, Tel:8366914;ARC, Tel : 5126534, Microware, Tel:8727446; **Calcutta:** SA Informatics, Tel: 266987; **Chandigarh:** Vision Asia Tel:692898; **New Delhi:** BPB Publications, Tel: 3325760; Comnet, Tel: 6912381; **Nagpur:** Artefact, Tel:525219; **Ranchi** : Shyam Color Lab, Tel : 311232; **Trivandrum** : Datamate, Tel : 64912.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

```
      end
      else
       for I := 0 to Files.Count

 do
 FileList.Add(LowerCase(ExtractFileName
iles[I]));
    GroupListClick(Sender);
    Changed := True;
  end;
end;
```

The code first sets the options for phi's open file dialog and then splays it. The user is permitted to ect multiple files. If the user closes dialog by clicking on the Ok button code adds the selected files to the List field of the TGroup object sociated with the currently selected Group. If the FileList already has s then the code first confirms that ile is not already there before ding it.

Notice how we update the display in File List listbox with a call to oupListClick(Sender).

This event handler is also used to dle the OnClick event of the ups|Add Files menu item so make necessary association.

Write the following event handler for OnClick event of the DeleteFileBtn:

```
rocedure TGroupsDlg.DeleteFileBtn
k(Sender: TObject);
r
 FileList: TStringList;
egin
 with FileListBox do
  if (ItemIndex > -1) then
  begin
                FileList    :=
pList.Items.Objects[GroupList.Item
ol as TGroup).FileList;
 FileList.Delete(FileList.IndexOf(Items[
Index]));
 FileListBox.Items.Delete(FileList
temIndex);
   Changed := True;
  end;
nd;
```

Notice how we delete the entry for the ath from the list box component as as the FileList field of the TGroup. event handler is also used to handle OnClick event for the Groups|Delete menu item so make the necessary ciation.

A double click on an entry in the File List listbox sets up the file as an item Program Group item list. This is the code that does it.

```
  procedure TGroupsDlg.FileListBoxDbl
Click(Sender: TObject);
  var
    PgmItem: String;
  begin
    PgmItem := '';
    with FileListBox do
  if (ItemIndex > -1) and (PgmGpEdit.Text
<> '') then
     if InputQuery('Program Manager
Group','Item Name', PgmItem) then
       begin
    ProgItemsListBox.Items.Add(Items[ItemIndex]
+ '=' + PgmItem);
         Changed := True;
       end;
  end;
```

Event Handlers For Other Form Components

We will now give you the event handlers for the remaining from components. The code is self explanatory:

```
  procedure TGroupsDlg.PgmGpEditChange
(Sender: TObject);
  begin
    if Changed = False then
      Changed := True;
  end;

  procedure TGroupsDlg.PgmGpEditExit
(Sender: TObject);
  begin
    if PgmGpEdit.Text = '' then
      if ProgItemsListBox.Items.Count
> 0 then
        ProgItemsListBox.Clear;
  end;

  procedure TGroupsDlg.ProgItemsList
BoxKey Down(Sender: TObject;
    var Key: Word; Shift: TShiftState);
  begin
    if Key = VK_DELETE then
      with ProgItemsListBox do
        if ItemIndex > - 1 then
        begin
          Items.Delete(ItemIndex);
          Changed := True;
        end;
  end;
  procedure TGroupsDlg.AliasNameEdit
Change(Sender: TObject);
  begin
    if Changed = False then
      Changed := True;
  end;

  procedure TGroupsDlg.AliasNameEdit
Exit(Sender: TObject);
  begin
    if AliasNameEdit.Text = '' then
      AliasGroupEdit.Text := '';
  end;

  procedure TGroupsDlg.AliasGroupEdit
Change(Sender: TObject);
  begin
    if Changed = False then
      Changed := True;
  end;

  procedure TGroupsDlg.AppNameEdit
Change(Sender: TObject);
  begin
    if Changed = False then
      Changed := True;
  end;

  procedure TGroupsDlg.DocFileEdit
Change(Sender: TObject);
  begin
    if Changed = False then
      Changed := True;
  end;

  procedure TGroupsDlg.FormCreate
(Sender: TObject);
  begin
    Caption := FormCaption + ' - NEW';
    LoadedIniFile := 'NEW';
    GroupNameLbl.Caption := '';
    Application.OnHint := DisplayHint;
    Changed := False;
  end;
```

Notice how the DisplayHint event handler that we wrote earlier is assigned to the Application.OnHint event in the FormCreate event handler. For the help hints to appear on the status bars you'd need to set the Hint and Show Hint properties of the power bar speed buttons and other components. We have covered how you do this in these columns earlier.

The Punch Line

The ability to automate the process of creating distributions disks is perhaps the most time saving feature of the expert. I am afraid we barely have

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Attention decision makers!

Still want to be steps ahead. Welcome to the Victory Multimedia technolog zone. We are offering incredibly Fast **CD-ROM Drives**, 3D-STERE quality **SOUND CARDS**, high tech **VIDEO CARDS**, relia **CD-ROM RECORDERS**, high - speed Six Disc CD-RO **CHANGERS**, high quality **3-in-1 SCANNER / FAX / COPIE** ... for less than you ever thought possible. So with yo dreams and our reliable, high - tech value price Multimedia products success'll be yours.

AST COMPUTER
Authorised Dealer

For Further Details Contact

MEDIA TECHNOLOGIES INDIA LIMITED

H.O : 204, Bhandari House, 91 Nehru Place, New Delhi -110 019. Tel 646 8695, 6420117
Telefax : 642 7241, E-mail - D E L A AC4 7 @ G I A S D L 0 1.VS NL.NET.IN
B.O. : 24-A, Dadyseth House, 44, Cawasji Patel Street, Fort, Bombay - 400 001. Tel. 2853830

DEALERS:

Allahabad : LANSYS Computers (P) Ltd. Tel. 644330, 644473,642152, 640489. **Bangalore** : Premium Logic Sy Tel. 3339602. **Calcutta** : Unique Sales Agency, Tel. 275356. **Chandigarh** : Samson Software Technolo Tel. 690505. **Gorakhpur** : Sam Computers Pvt. Ltd. Tel. 33558. **Jallandhar** : The Computer Concept, Tel. 22 236989. **Kanpur** : Multi Business Machines Tel. 290986, 293738, 355731. **Lucknow** : Syber Systems & Sol Pvt. Ltd., 386325, 76107. **Noida** : COMPUCOMM Services Tel. 522357, 558402. **Patna** : Graphic Tel. 651740.**Udaipur** : Vardhman Computers Tel. 414543. **Varanasi** : Jwala Distributors Tel. 356338, 35631

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

space to give you the code. I am sure
u will figure out how
the code works. However, before we
ve you the code add the following
ity procedure to the implementation
ction:

```
procedure Wait(WaitFor: LongInt);
var
 WaitStart: LongInt;
begin
 WaitStart := GetTickCount;
 repeat
  Application.ProcessMessages;
until ((GetTickCount - WaitStart) >
itFor);
end;
```

Here we go with the grand daddy of the event handlers that we have seen.

```
procedure TGroupsDlg.CreateDisks1
k(Sender: TObject);
var
 FileList: TStringList;
 I, J, DiskNo: Integer;
 Dest, Src: TFileName;
 IniFile: TIniFile;
 DiskFull: Boolean;
 Drive: Char;
 SearchRec: TSearchRec;
begin
 if GroupList.Items.Count = 0 then
  Exit;
 if Changed then
  Save1Click(Sender);
 DiskNo := 0;
 DiskFull := False;
 with DirSelDlg do
 begin
  GpDescriptLbl.Visible := False;
  GpDescriptEdit.Visible := False;
  ShowModal;
Dest := DirectoryListBox1.Directory;
  GpDescriptLbl.Visible := True;
  GpDescriptEdit.Visible := True;
 end;

 if Copy(Dest, Length(Dest), 1) <>
then
  Dest := Dest + '\';
 Dest := UpperCase(Dest);
 Drive := Dest[1];
 if (Drive = 'A') or (Drive = 'B')
then
  if MessageDlg('Expert will now
e the distribution disks. Ensure
 #1 in drive',
        mtWarning, [mbOk, mbCancel],
0) = mrCancel then
        Exit;
     if not FileExists(SetupApp) then
       with OpenDialog1 do
       begin
            Title := 'Specify Setup
Application';
             Filter := 'Exe Files
(*.EXE)|*.EXE';
             Options := Options -
[ofAllowMultiSelect];
        FileName := SetupApp;
        if Execute then
          Src := FileName
        else
          Exit;
       end
     else
       Src := SetupApp;
     {Allow screen update}
     Wait(500);
     CopyFile(Src, Dest);
     CopyFile(LoadedIniFile, Dest);
                 IniFile :=
TIniFile.Create(LoadedIniFile);
     try
       with GroupList do
        for I := 0 to Items.Count - 1 do
        begin
          Src := (Items.Objects[I] as
TGroup).Destination;
         if Copy(Src, Length(Src), 1)
<> '\' then
           Src := Src + '\';
         FileList := (Items.Objects[I]
as TGroup).FileList;
         for J := 0 to FileList.Count
- 1 do
         begin
                   FindFirst(Src +
FileList[J], faAnyFile, SearchRec);
           try
            if DiskFree(Ord(Drive) -
Ord('A') + 1) < SearchRec.Size then
                              raise
EDiskFullError.Create('Destination drive
is full')
    else if DiskFull = True then
           begin
             Inc(DiskNo);
             DiskFull := False;
           end;

            StatusPanel.Caption :=
'Disk#' + IntToStr(DiskNo+1) +
                ': Copying File ' +
FileList[J];
           Wait(500);
           CopyFile(Src + FileList[J],
Dest);
           except
             On EDiskFullError do
               if MessageDlg('Insert
new disk in dest drive', mtWarning,
                [mbOk, mbCancel], 0)
= mrOK then
               begin
                 if DiskFull = False
then
                 begin
                   DiskFull := True;
           IniFile.WriteInteger('Disk
Change', FileList[J], LongInt(DiskNo+1));
                 end;
                 Dec(J);
               end
               else
                 raise;
           end;
         end;
       end;
     finally
       IniFile.Free;
     end;

     if (Drive = 'A') or (Drive = 'B')
then
      if MessageDlg('Setup needs Disk#1
again!'#10#13'Click Ok when ready',
          mtInformation, [mbOk], 0) =
mrOk then
        CopyFile(LoadedIniFile, Dest);
        StatusPanel.Caption :=
'Distribution disks created!';
   end;
```

Next Month

This month the column has been unusually long. Next month we promise to cut its size by half. However, we also promise to make it twice as interesting.

We will show you how to make the PCQSETUP application that we created in our last episode into a Delphi component. As a component it will be a lot more versatile since it will have events. You will be able to write event handlers and customize the utility to suit the application that you are distributing. More importantly, Delphi developers can learn how to write your own Delphi components.

VK Thakur is a PC Quest contributing editor and a Delhi-based database and information consultant. You can reach him at kuku.thak@axcess.net.in or as THAK on PCQ Online.

CC-0. Prof. Satish Chandra. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MORE HEADS ROLL
AS BLOODLESS REVOLUTION CONTINUES

Week after week hundreds of dot matrix printheads roll to TRANSDOT for remanufacture. After all, in India only TRANSDOT has the technology and equipment to remanufacture printheads with the flawless precision and ruthless efficiency it calls for.

■ **WORLD CLASS TECHNOLOGY FROM DOT SHOP INC., USA.** ■ **EXTENSIVE LIST OF CORPORATE CLIENTS** ■ **REASONABLE PROCESS PERIOD, MEGA SAVINGS**

TRANSDOT
(A Transmatic Group Company)

TRANSDOT ELECTRONICS PVT LTD
Golf Links Road, Kowdiar, Trivandrum-695 041, India.
Tel: 91-0471-435608, 433805 Fax: 91-0471-432465
Tlx: 435-6217 TSL IN

WARNING ONLY UNTAMPERED PRINTHEADS WILL BE ACCEPTED FOR REMANUFACTURE

DEALERS' LIST: ● AHEMEDABAD - V Repair, Ph: 405620 ● ALLAHABAD - Grain Technologies, Ph: 602982 ● AJMER - Unicom, Ph.50981 ● AMBALA CANNT.-Computer Touch, Ph.643285 ● [illegible] - Digitelek Systems & Services, Ph: 3374465; Trinity Business Systems, Ph: 645324, 648029 ● BARODA - Patwa Kinarivala Electronics, Ph: 326588 ● BELGAUM-Microlink, Ph: 21482 ● BHAVNAGAR - Computer,Ph:24164 ● BHILWARA - S.R. Enterprises, Ph.22362 ● BHOPAL- Compquest Consultants, Ph:554089, Computer & Computers, Ph: 554089 ● BOMBAY - Automate Technologies, Ph: 2634[illegible] Computers & Technologies, Ph: 6232002, 6235604, Up-Time Computer Services Pvt: Ltd., Ph:4925111, Video-Tech, Ph:3826357 ● COIMBATORE - Krisan Office Automations, Ph:210747 ● [illegible] Marketing Computers, Ph.538831 ● DEHRADUN - Elegance, Ph:651881 ● GANDHIDHAM - Pars Building Products, Ph: 23824, 22138 ● GOA - Foundation Business Systems, Ponda, Ph: 312491 ● [illegible] - Vedic Computers, Ph: 320928 ● HUBLI-DHARWAR - Kidiyoor Electronics, Ph: 347504 ● HYDERABAD/SECUNDERABAD - Orient Business Services Pvt. Ltd.,Ph:847478 ● INDORE- Systematix Computer [illegible] Ph: 491577 ● JALANDHAR CITY- Primrose Computer Aids, Ph.252975, 255249 ● KHOTA- Shobhit, Ph.28282 ● KOCHI- Sighnetics Systems , Ph.345290 ●KURNOOL - Fair Deal Enterprises, Ph:[illegible] LUDHIANA- Secant Technologies, Ph.456891 ● MADRAS - Transdot Electronics Pvt. Ltd., Ph: 4990544, 4993927. VRP Electronics, Ph: 8274827, 8283663 ● MANIPAL - Dot-Care, Ph: 44089 ● [illegible] - Key Computers, Ph: 536263 ●PONDICHERRY- Microplus Computers, Ph: 38913● PUNE - Shree Engineering Corpn., Ph: 334533 ● RAJKOT - Mihir Computers, Ph: 46668; Wiptech Peripherals, Ph:[illegible] ● SATNA - Shubham Computers, Ph: 47277 ● SURAT - Samrudhdhi Systems, Ph: 411019 ● TIRUCHIRAPALLI - Sri Vadhana Enterprises, Ph: 432892 ● TRICHUR -IRS Systems & Services, Ph:[illegible] ●TRIVANDRUM - Blue-Jay Global, Ph: 441753 ● UDAIPUR- Apex Informatics, Ph.28330 ● VIJAYAWADA - Andhra Computer Services, Ph: 431707 ● VISAKHAPATNAM- Micronet Technologies, Ph:[illegible]

BUY ★ SELL ★ LEASE ★ HIRE
MICROMART
CLASSIFIED

GENIA SOFTWARE PROTECTION & USAGE CONTROL SYSTEM
DOS WINDOWS LAN * NO LASER HOLES * NO APPENDAGE * ANY MEDIA * ANY ENVIRONMENT * ANTI-VIRUS * FOOL PROOF SECURITY * NO SIDE EFFECTS
.....
INFORM:NETWARE ADMINISTRATION TOOL
COMPLETE LAN REPORTING * TRAFFIC * OBJECT EDITING INTERNETWORKING * USER CREATION * EXTREMELY FAST NO BUGS * NETWARE EDUCATION TOOL * MUST FOR ALL
TECHVISION SYSTEMS.270,SEC-28, NOIDA.
PH: (91)11-8552685 (DEALERS ENQUIRE)
AVAILABLE AT ET&T(DELHI): NEHRU PLACE, MALCHA MARG, AKBAR HOTEL ANNEXE

MICROSENSE-CYBER MEDIA INTERNET BONANZA

CORRECTION

The last date for the receipt of your Internet Registration forms and Microsense Questionnaire has been extended upto April 30, 1996 and the Lucky Draw will be held on May 15, 1996.

The Ultimate in Computer Sourcing
- PCMCIA Cards
- Notebook Computers
- Multimedia & Upgrades
- CD-Recordable
- Magneto-Optical Drives
- CD-R Disks, M/O Disks
- High Capacity Hard disks

GANLUX
Computer Services Pvt. Ltd.
G-3 Aggarwal Bhawan
35-36 Nehru Place
New Delhi 110019
Tel : 6427333, 6473458
Fax : 6435459

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MEDICINE Internet

Continuing our series on sites for professionals, and those interested in medical advice and developments

The World Wide Web is full of health and medical information. But to look for things of serious practical use, you have to be armed with time, registered accounts and information.

But there's plenty for health news and developments, often on the public-access sites.

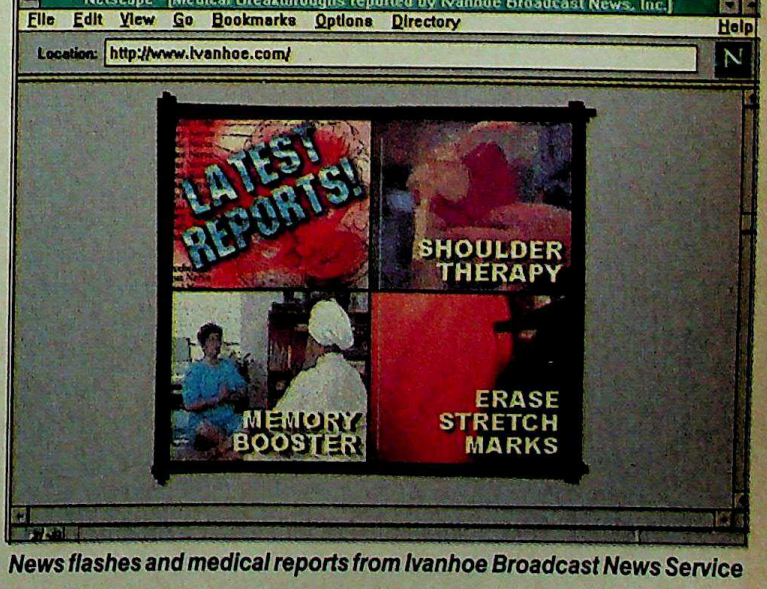
For seriously useful medical articles, **Medical News** is a professional's site at http://www.pslgroup.com/mednews.htm. Here there are updated medical alerts and complete articles with sources available without registration. You can scan the articles for the past week, the last three months, or browse through a list to find those of interest to you. There are updates on conferences, literature and newswires and the site is updated daily. Visits to this site will update you on non-medical headlines and news as well. This is a site best visited in text mode or with a text browser, since it will get you to the text information much faster.

The New York Times Syndicate's health and medical news service, **Your Health Daily** (http://nytsyn.com/medic/) has both new and archived news articles. This is a free service, at least for now, and doesn't require registration. YHD features articles, columns, and analyses from sources in Europe, the United States and Asia. Some of the articles are from the Medical Tribune News Service. Information can be accessed through topic lists or with a keyword search at this site. There are also Health Daily Discussion Groups on fifteen broad topics including AIDS, Asthma, Cancer, Blood Pressure, Herpes, Diabetes and other diseases. In the discussion groups, you can post your messages and exchange views on the listed topics online.

The **Medical Breakthroughs** site at http://www.ivanhoe.com is interesting, though slightly slow-loading because of its graphics. This is a top-five-percent Point-rated site. Here, to begin with, you have a News Flash: news clippings with comments on research covering a variety of health related topics. There is also a section featuring Latest Reports on everyday health problems, therapy—including alternative medicine—and research studies.

These reports can be downloaded in script or video clip form and for a fee, as a complete movie clip with all its extras. Each week, there are special topics featured in articles. Keyword searches and browsing through archived articles or selecting from among 13 topic categories will help you find news that interests you. You can also visit the 'Consultation Rooms' to post up information or queries for discussion. This web site also welcomes story ideas. By subscription, there is a First to Know Bulletin giving advance

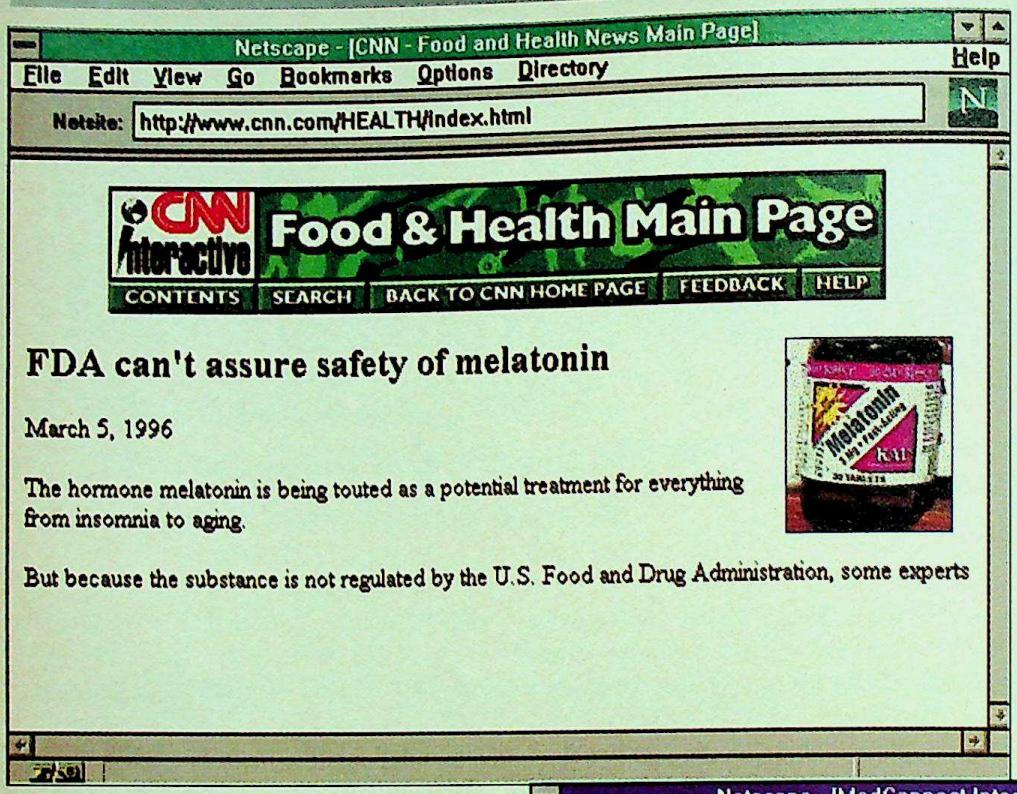
Your Health Daily from the Medical Tribune



News flashes and medical reports from Ivanhoe Broadcast News Service

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

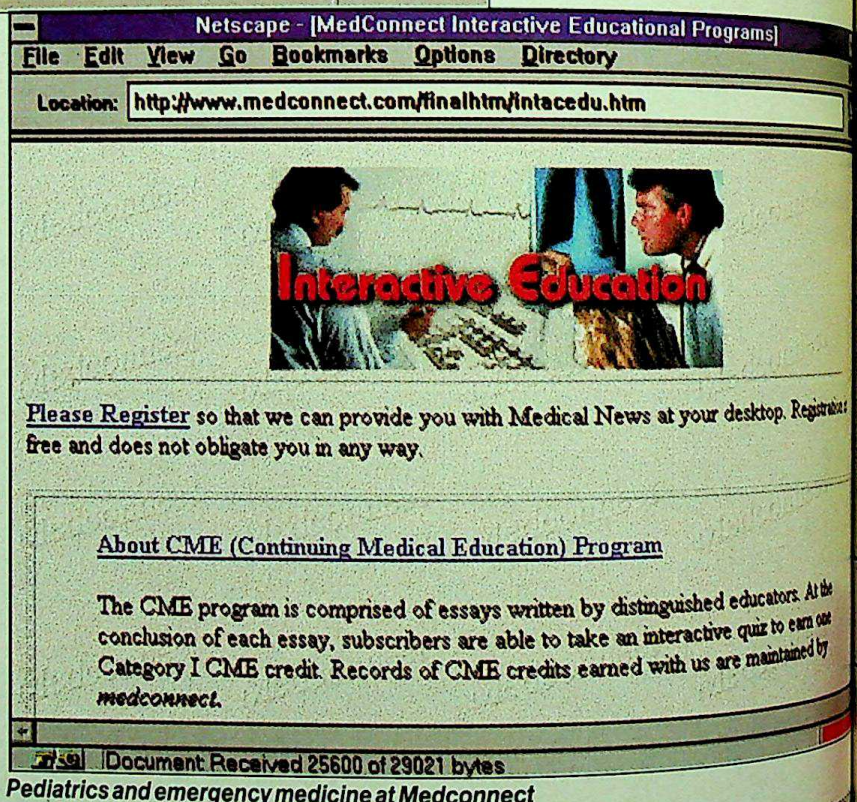


Health stories are easily accessible at the very popular CNN site

information by e-mail about medical breakthrough reports. Updates are also sent by e-mail to subscribers. Medical Breakthroughs comes from Ivanhoe Broadcast News, IBN.

CNN Interactive features a **Food and Health Main Page** athttp://www.cnn.com/HEALTH/index.html. There are full story versions of some selected news items, some general and some concerning the US Food and Drug Administration. There are Health Briefs on a mix of medical and related topics including research. Aside from news briefs there are more health stories on topics such as research on some HIV strains showing a greater risk for women, walking being better than running for exercise, the discovery of a gene that could help in a cure for cancer, etc. Visitors to this site will also be alerted to upcoming health related programmes on CNN television. Like many other news sites, searches are available.

The search engines, such as Yahoo's Medicine, Health, News categories, will get you to a list of links to medical news. The majority of these however, will be by subscription. **Health News Daily** at http://198.250.183/60/hnd.htm is a source of links to medical news sites such as the **Healthcare Newspage** at http://www.newspage.com where registration is compulsory but free and



Pediatrics and emergency medicine at Medconnect

after which you can access full story versions of news articles on many health topics. Access to the **Medscape News** page at http://www.medscape.com is also free but a registration is needed to get to the full text articles from the Medical Tribune news service. There are also columns and editorials at this site. At **USA Today Healthline** at http://web.usatoday.com/life/health, there are full versions of recent news stories which are accessible. News from selected areas is also available at many sites, such as Pediatric news, Emergency Medicine news at **conect,** http://medconnect.com.

Doctors finding medical news on web need to be wary with their interpretations—just as they would about health issues in the However, reading medical news has one strong advantage—contact doctors or researchers through and through discussion groups. contact is set up with people working a common area of interest, and more useful information exchanged.

The medically inclined layman wsing the Internet for medical also must be wary and remember none of the news items or articles be taken for medical advice. are sometimes anecdotal, which

them sound dramatic and interesting humanized as they are with real characters and circumstances these do not take the place of statistically significant research samples methodology that takes into the multitude of variables that part in any illness and tries to their effects in understanding problem thoroughly.

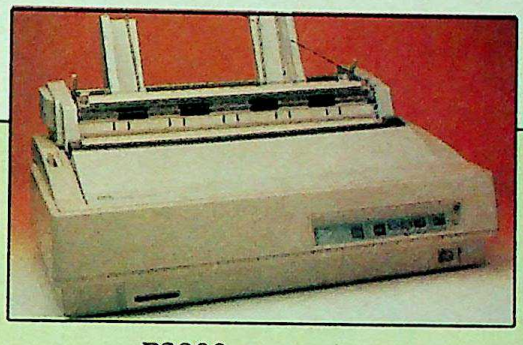
Mala Bhargava <mala@pobox.com>, psychologist at AIIMS, Delhi, is an multimedia reviewer for

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CALL,
NEC JAPAN OR
DIGITAL WORLD, INDIA

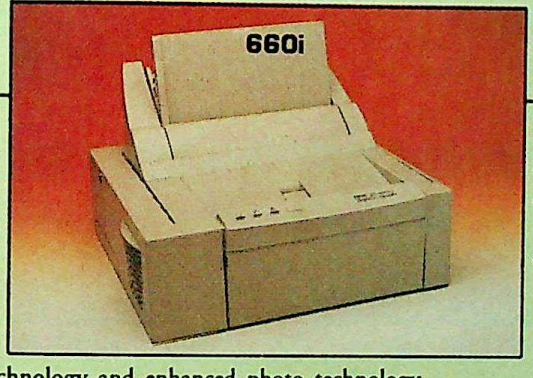
Pinwriter P1200/P1300/P3900



P1200/1300 :
- 24pin, 192cps@10cpi
- 80/136col
- Push/Pull tractor with tear off function
- Scalable Fonts
- Noise level-46dBA
- Cut sheet feeder
- 360x360 dpi

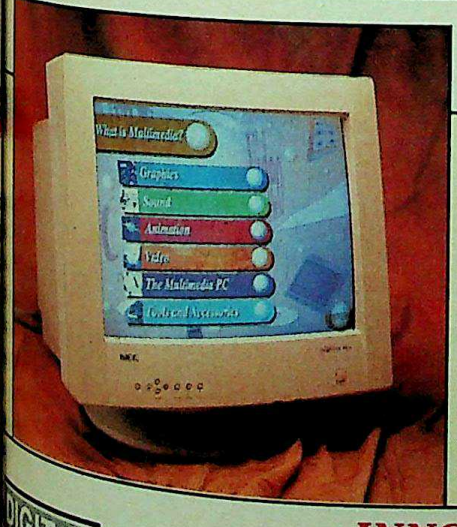
P7300:
* 24 pin, 300cps@10cpi
* Colour Kit Option
* Automatic paper width detection
* LCD Display
* Colour Kit Option

P3900 :
* 24 pin, 216cps@10cpi
* 136 col
* Push/Pull tractor with tear off function
* Superb print quality.
* 360x360 dpi
* 16 KB Buffer.



Features
- High-resolution laser printing
  - 610 plus:300 x 300 dpi
  - 660/600i:300 x 300,600 x 600dpi
- Low power consumption
- Low noise
  - Less than 46dB in print mode
  - Lower standby noise levels
- High-quality printing via Sharp-Edge technology and enhanced photo technology (SET) for crisp,sharp text and graphics without jaggles
- S/W available for WFW network and PostScript emulation (610plus)
- Spot colour capability-add colorful logos and watermarks with optional red, ye llow or blue toner catridges

* Sleeek, aesthetic, desktop size
* With Windows 95,OS/2 drivers
* Microsoft Windows 95 compatible
* Toner/paper-saving mode with 2Up/4Up Printing
* Emulation
  - 610 plus: GDI (Windows3.1) PCL 4.5 (Host based S/W)
  - 660i: GDI (Windows 3.1) & DOS PCL 5e (Resident controller)
* Plug in and use instantly
* High-Speed throughput (6ppm)
* True Type Fonts
* PostScript (optional)



NEC MultiSync X Series Monitors

XP (Professional Series) 1600 x 1280
XE (Enterprise Series) 1280 x 1024
XV (Value Series) 1280 x 1024

VARBusiness PRODUCT OF THE YEAR 1994

* 60-HZ Refresh Rate at 1280 x 1024 Resolution (addressable)
* Flat Square Technology, OptiClear surface eliminates glare
* AccuColor Control System to adjust colours (red, blue and green) individually
* On-Screen Manager to adjust screen size, geometry, position and more
* Intelligent Power Manager to minimise power consumption
* Compatible with Microsoft Windows 95 Plug & Play Standard
* Compatible with PC, Macintosh, Power Macintosh Systems

DIGITAL WORLD INDIA LIMITED

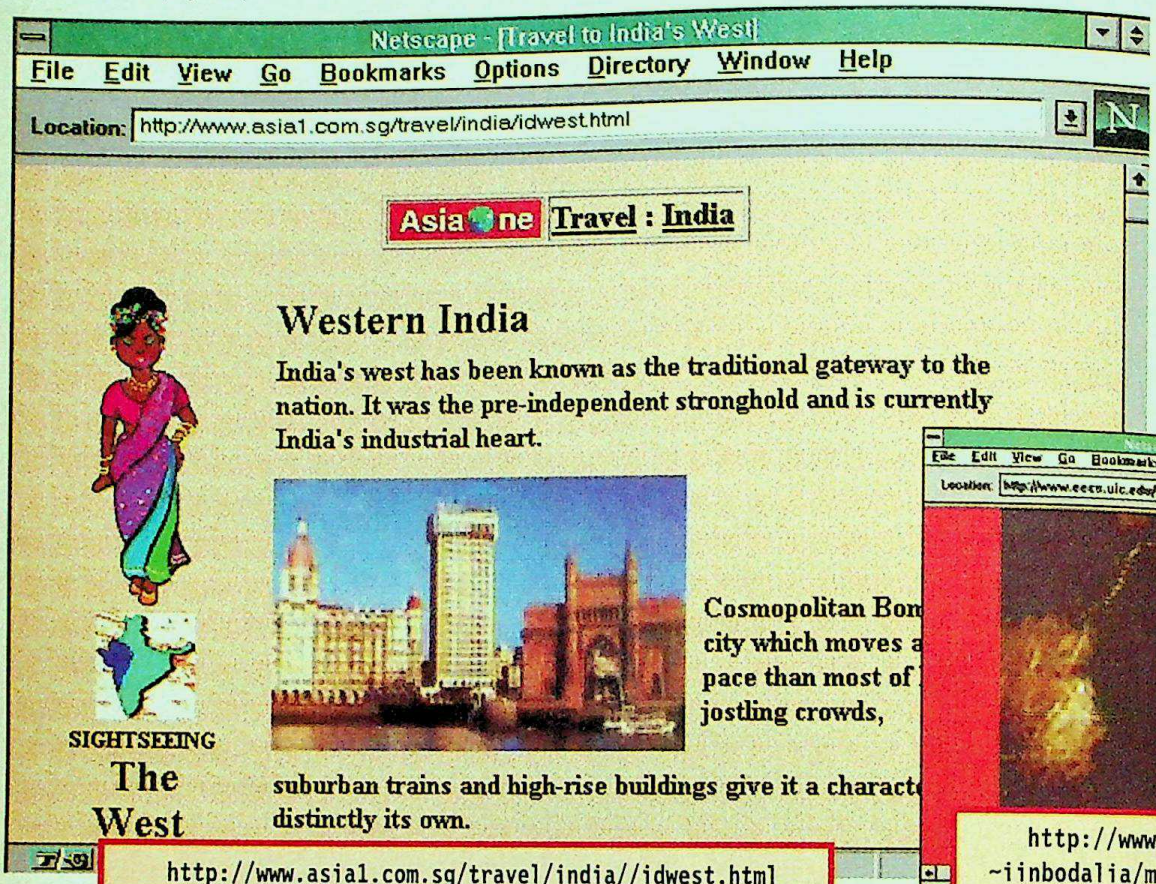
INNOVATIVE PRODUCTS....
NATURALLY YOUR FIRST CHOICE

• Authorised distributors : **DIGITAL WORLD INDIA LTD.**, National Headquarters97, Marol Co-operative Industrial Estate, Andheri-Kurla Road, Marol, Andheri (East), Bombay-400 059. Tel.: (22)8381922/8385686/8343500/8344600 Fax : (22)8381074
• Ahmedabad Tel:(79)468292 • New Delhi Tel:(11)6466463,6404268/6404207 • Luckhnow Tel: (522)274396
• Jaipur Tel (141)382378 • Madras:Tel:(44)6429600/6429610 • Banglore Tel: (80)2221143 • Hydarabad Tel: (40)867218

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

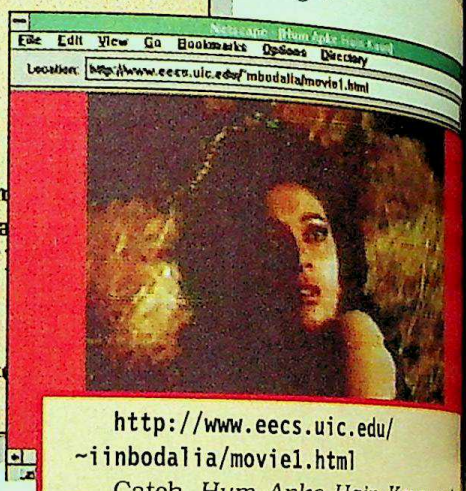
(Continued from page 170)



http://www.asia1.com.sg/travel/india//idwest.html

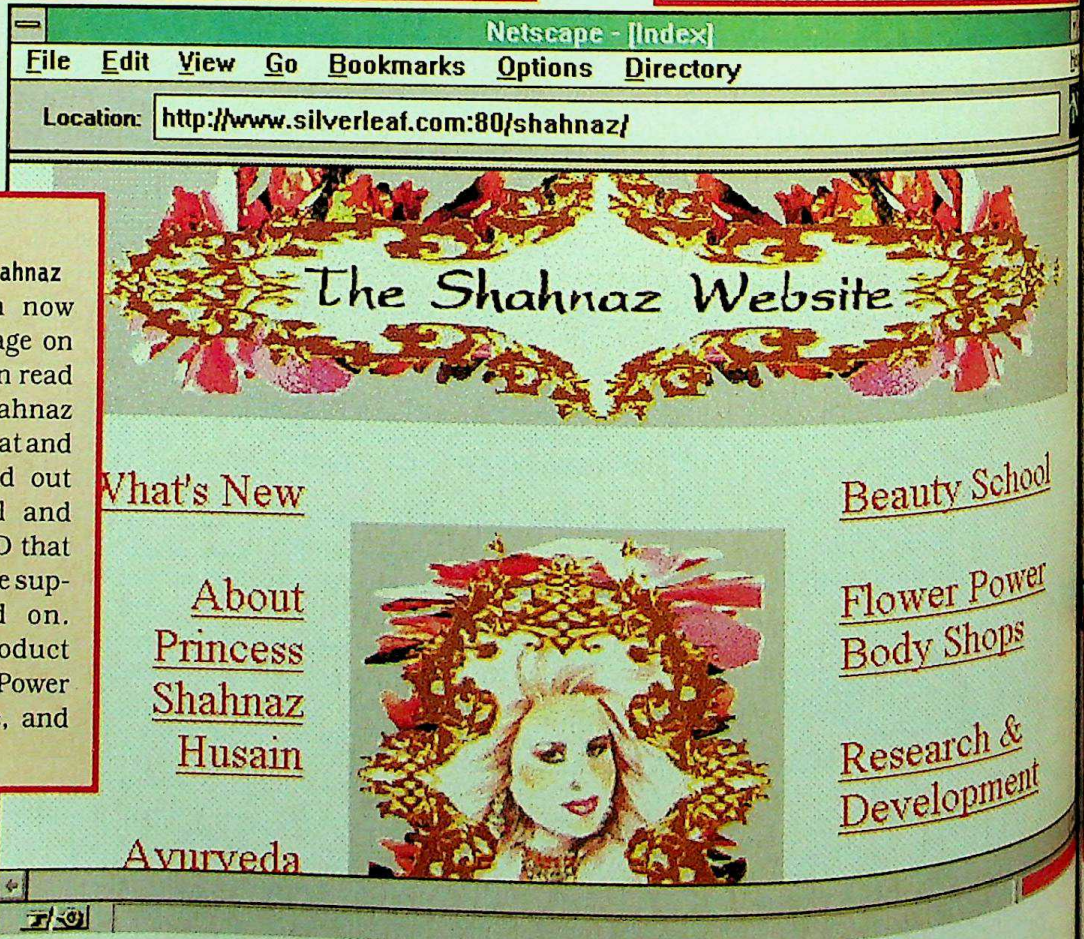
Asia One maintains travel pages with information on how to get around, sightseeing, food, hotels, shopping, travel tips and fast facts. This page describes Bombay and Jaipur and the sights in these cities.

this Web site. Find out
the Calcutta Metro, and
to stay, rent a car, and
and where to eat. Read
what Calcutta prides
and browse through an
of images and black and
photographs from the
Joy. The index at this
cludes the weather,
in Calcutta's theaters
certs, and a section on
Bengal.



http://www.eecs.uic.edu/~iinbodalia/movie1.html

Catch *Hum Apke Hain Kaun* on the Web at its own home page. You can read the story of the film and find out about Madhuri Dixit and Salman Khan.

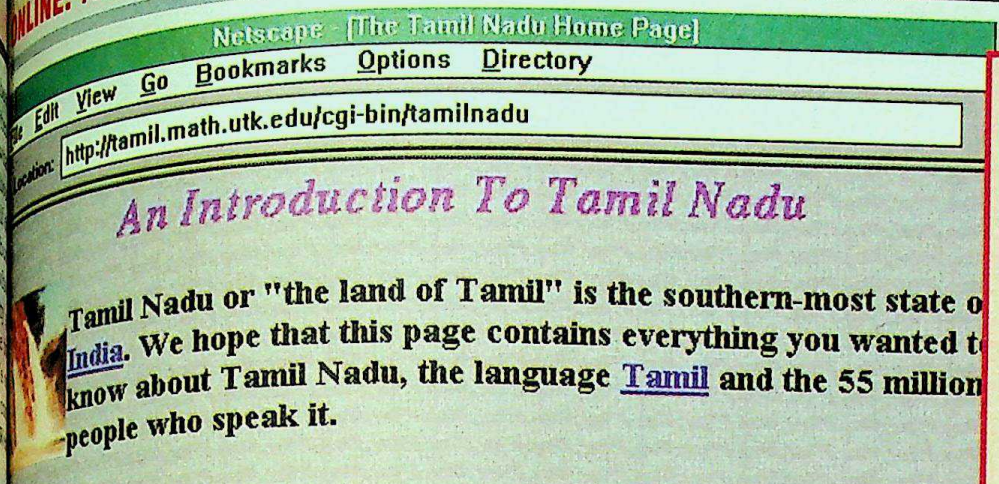


http://www.silverleaf.com/shahnaz

Shahnaz Hussain now has her own home page on the Web. Here, you can read about "Princess" Shahnaz herself, learn about what and who is beautiful, find out about beauty school and Ayurveda and the R&D that Shahnaz's products are supposed to be based on. Shahnaz's entire product range and her Flower Power Shop is featured here, and you can order online.

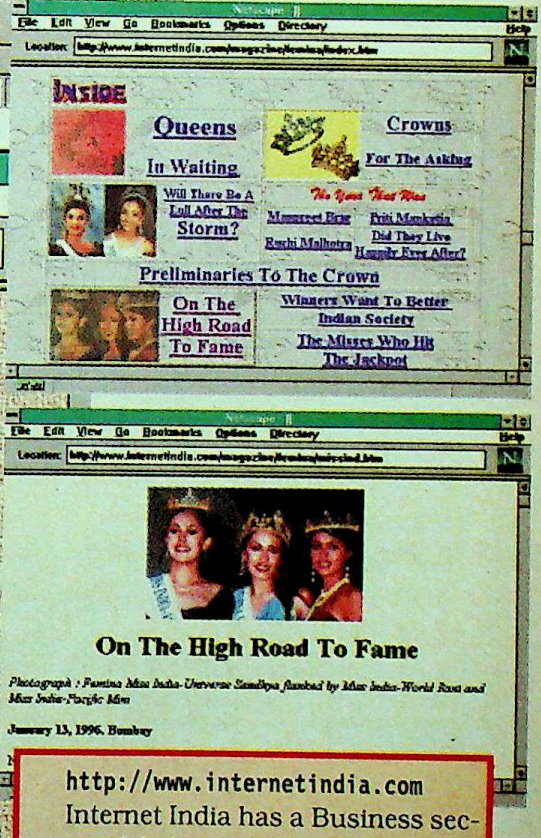
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

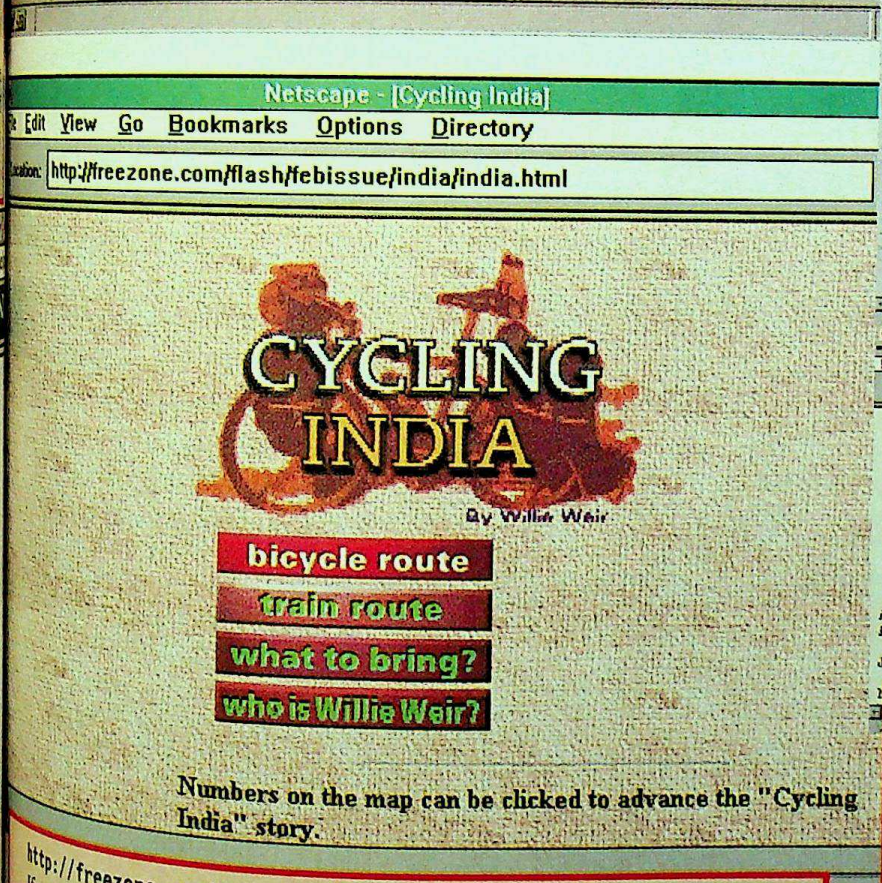
Digitized by Arya Samaj Foundation Chennai and eGangotri



http://tamil.math.utk.edu/cgi-bin/tamilnadu

Tamil Nadu has been on the Web for quite a while now, and this is one of its most comprehensive sites. At its home page, an index includes dance, festivals, food, movies, poems, music, literature, religion, news, pictures, upcoming events, tourism, services and even Tamil fonts. There's also a Message Board, an active map that takes you to places in and around Tamil Nadu where you can post up messages, getting in touch with people. There are also other Tamil Nadu related links here.





http://freezone.com/flash/febissue/india/india.html

If you've ever wondered what it would be like to cycle through India, visit Willie Weir's Cycling India page. Willie and his friend cycled 5,000 miles through India and this page contains stories and sounds from this long journey. This somewhat slow loading, but nonetheless interesting Web site has a train route, information on bicycles and cycling, and a map that can apparently be used to advance the story.

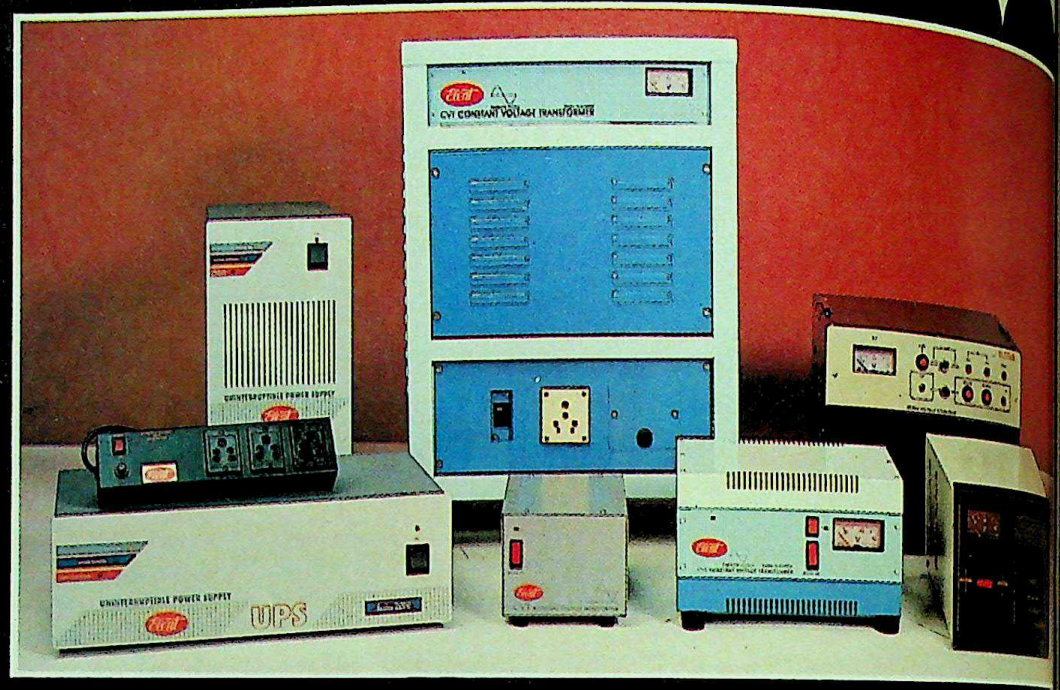
http://www.internetindia.com

Internet India has a Business section, with links to some industry pages, a Culture section that features SPIC Macay, and a section devoted to Pranic Healing. There is an Art section, featuring two artists, a Stage section on a theater foundation and there are articles in an Impressions section. Travel is featured with some tour options from *Swagat* magazine. At this Website you will also find the Femina Miss Indias'.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Happiness is not always a state of mind



While computing it is always the state of main-line power

While computing don't let the state of main-line power dictate your state of mind. Let Elent's state-of-the-art range of Power Conditioning equipment -

HIGHEST QUALITY Elent

UPS & CVTs in a wide rating take care of all the hassles and let you carry on totally worry-free. Get Elent on your side and ensure your happiness.

ELECTRONIC ENTERPRISES

67 DSIDC Complex, Okhla Phase I, New Delhi 110020 Ph.: 6810515, 6818608 Fax : 91-11-6818608 Grams : STABELEC

Authorized Dealers:

NORTH •Chandigarh: 702395, 704138 •Faridabad: 289367, 289902,218696 •Hissar:76930, 79416 •Karnal:252769 •Shimla: 78438,204020, 204026 •Palampur (H.P.):31059 •Jammu: 44773, 548854, 43547, 546805, 533154 •Srinagar:72528,52056 •Ambala:643122 •Amritsar: 555470, 548852 •Bhatinda:210701 •Jalandhar:227124,252975 •Ludhiana:31856,400765,475568,471402 •Patiala:71849 •Agra:52580,54760,51313 •Allahabad:609192 •Bareilly:78585, 473033, 478707, 470838 •Dehradun:28016 •Ghaziabad:717131, 714617,718612 •Gorakhpur:333598, 33[illegible] •Kanpur:319056,319916,210130,210993 •Moradabad:317769 •Muzaffarnagar:405123 •Saharanpur:3440 •Varanasi:57212,57254, 352717,352[illegible]

CENTRAL •Bhopal:555955,553030 •Gwalior:325965 •Indore:432902, 550649, 554080,494499,400455 •Jabalpur:20086, 26395 •Jhansi:444[illegible] 442207 •Raipur:535817, 533882 •Ratlam:20088, 31088 •Sagar:22234 •Satna: 3625,2097 •Ajmer:32988 •Alwar:71330 •Bhilwara:26216 •Chittorgarh: 42468, 40672 •Jaipur:366862, 369818 •Jodhpur:27958 •Kota:20952 •Udaipur :413311

EAST •Guwahati: 31250, 540845 •Jamshedpur: 428381 •Patna: 230007 •Ranchi : 205795 •Imphal: 310783 •Shillong:223949, 222847, 220[illegible] 221817 •Calcutta:298295, 297175 •Darjeeling:2040 •Siliguri:430146 •Berhampur (Orissa): 203187

WEST •Goa: 223712,228644 •Ahmedabad:6638575,460883 •Rajkot:42955 •Jalgaon: 28470 •Vadodara: 338039,341364, 557542 •Chandrapur: 32101, 32662 •Akola:40781, 28710 •Amravati:74105 •Bombay: 5554830, 5555218 •Nagpur: 526862 •Nasik:579510 •Pune: 3346[illegible] 346690 •Kopargaon: 23206, 22168 •Ulhasnagar: 550401, 551402

SOUTH •Belgaum:32482 •Madras: 8256893, 8277729, 458664, 453512, 512808, 5230195 •Madurai:31615, 35533 •Pondicherry:36446, 3[illegible] •Salem:448271 •Tirupur:28790, •Trichy: 48400 •Port Blair (Andaman):30873 •Hyderabad:216850 •Vijaywada:72217,77248 •Visakhapatnam:547131, 53555 •Bangalore: 5591843, 8396561,5530791,5531841 •Mangalore:458852 •Cochin:368461 •Kollam: 204311, 204115 •Coimbatore:231736,232087

For Dealers in Delhi, please contact our Office

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Netscape - [Rediff On The Net - http://www.redifindia.com/]

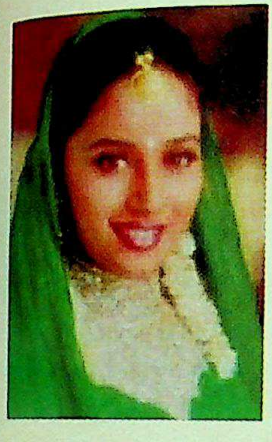
File Edit View Go Bookmarks Options Directory Window Help

What's New! | What's Cool! | Handbook | Net Search | Net Directory

- India News
- India Business
- Sport
- Destinations India
- Computers
- Entertainment
- Young World
- Investments in India
- Indian Databases

Rediff On The NET

India's first online information and entertainment service on the Web



Madhuri Dixit at her sparkling best!

SUBSCRIBERS: Please click here Click here to subsc...k

Rediff On The Net

"India's first online information and entertainment service on the Web?" If you overlook the tautology and the inaccuracy, this is indeed one of the nicest Indian sites around.

Netscape - [Rediff On The Net - On The Ball]

File Edit View Go Bookmarks Options Directory Window Help

On The Ball

Rediff On The NET

...ia Roberts' turnabout.

...career that has an unbroken line of box office hits, and can still command a higher pay-cheque than any ...Hollywood actress, Julia Roberts is doing all she can to change her image. She seems to be growing up. ...trendy mane of shoulder length hair has been replaced by a red-tinted flat bob.

Julia was born and brought up in a small town in Georgia. Her parents ran a workshop for actors and writers. Her father sold vacuum cleaners when times were bad. Her parents separated when Julia was four years old. Later, when she was five, her father died of cancer. Julia had a childhood ambition of being a vet. Soon her philosophy of life changed and she began to work in a New York shoe shop.

In 1988, her brother Eric, who was already an actor asked her if she would like to act , and Julia, who thought acting was more glamorous, decided to act, and he helped her to get her first role. Later in the same year, she played the role of a Connecticut waitress in **"Mystic Pizza"**. It wasn't much of a role, but it proved to be the making of Julia Roberts. She made it big when she did **"Pretty Women"**.

Netscape - [Rediff On The Net - Billboard]

File Edit View Go Bookmarks Options Directory Window Help

Billboard

Rediff On The NET

Sarandon, Cage bag individual Oscars; Mel Gibson wins big

Mel Gibson's 13th century epic *Braveheart* walked away withfive of the coveted statuettes handed out annually by the AmericanAcademy of Motion Picture Arts and Sciences. But Gibson's costumedrama failed to net the real biggies, with the Oscars for actinggoing to Susan Sarandon, for her portrayal of a nun trying toredeem a condemned killer in *Dead Man Walking* and NicholasCage, for his suicidal alchoholic in *Leaving Las Vegas*

Gibson, however, did manage to win the Best Director award, pippingseveral more highly favoured contenders in the bargain, whileEmma Thompson won, as expected, for her adapted screenplay basedon the Jane Austen novel *Sense and Sensibility*.

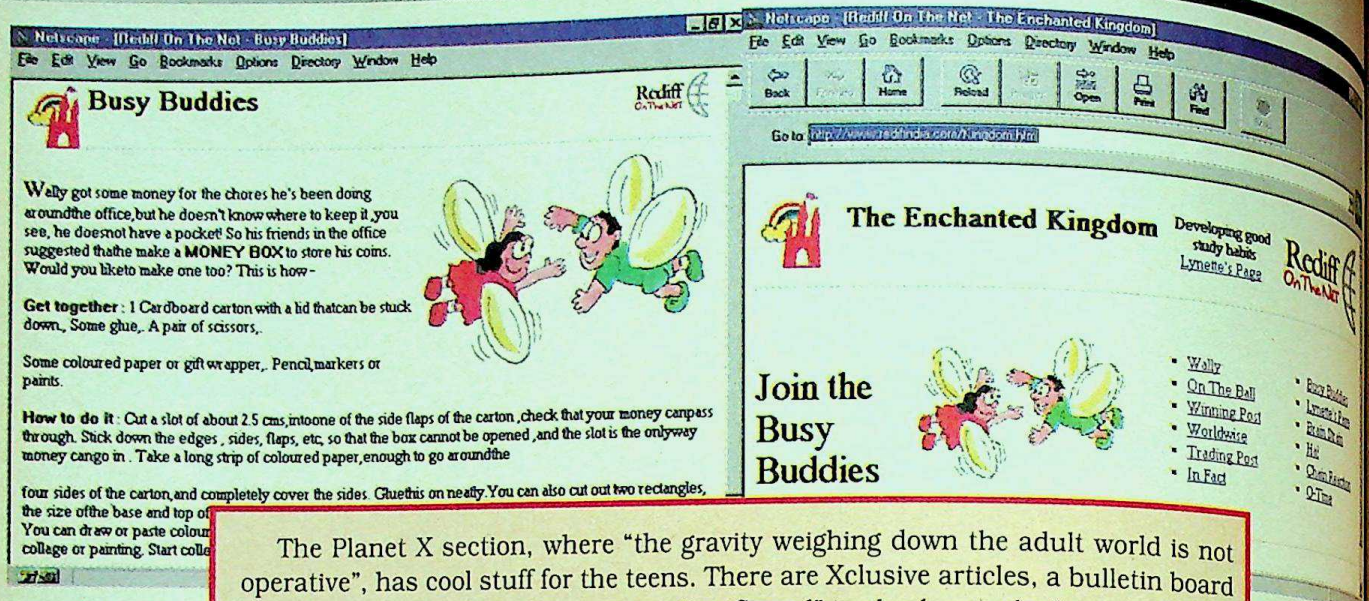
"I know it's corny to say it, but I just love acting andhope there will be more encouragement for alternative movies wherewe can experiment, and fast forward into the future of acting," said Nicholas Cage, in his acceptance speech. Cage has been admiredfor his ability to take risks in role selection, having done thelikes of *Rumble Fish*, *Moonstruck*, *Honeymoon in Las Vegas*

With this site at **http://www.redifindia.com/**, Rediffusion is, as far as we know, the first Indian ad agency to go on the Web. The people who made this site know what they're doing. It's friendly and well-designed, with snappy, professional copy and graphics. There's quite a bit of graphics, but they're mostly controlled and quick-loading. Full access is evidently by subscription, but you can have a long free look any time.

A news section has Indian and World news, features, interviews and encounters, election specials, the latest buzz from the Capital, articles and commentaries. A business section features business and economy news, money and markets information and updates, business interviews and features about the people behind the business. There's even an online lottery. A Personal Investments area talks tax, funds and other money matters. A Travel section has snapshots of destinations, and information on airlines, hotels, eating out.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



The Planet X section, where "the gravity weighing down the adult world is not operative", has cool stuff for the teens. There are Xclusive articles, a bulletin board to exchange info on study courses, a "surfboard" to check out what's cool on TV, a Cupid's Corner, Xtreme Close Up, where you can find out whether pony tails are in, and lots more.

And this is also a very young peoples' Web site. Click into the Enchanted Kingdom, and Wally the walrus guides you around the sections. You can learn how to make things from the Busy Buddies, swap what you can live without for something you can't live without at the Trading Post—and even join in and write the next paragraph of "the first novel written by children on the Internet".

Mala Bhargava is a multimedia and Internet reviewer by P
She's mala@pobox.com on the Internet, and MALA on PCQ O

The UPS Special

THE PERSONAL COMPUTING MAGAZINE PC QUEST

PCQ Labs Shootout:
UPS systems below Rs 12,000 reviewed

Power regulation and UPS technologies

Hands on: Planning your power needs

Multimedia CD-ROMs for professionals and SOHO users

Special Focus: CD-ROMs on India, Medicine, Publishing

MAY 1996

The PRINTER Special

THE PERSONAL COMPUTING MAGAZINE PC QUEST

PCQ Labs Shootout:
The largest-ever collection of printers in India
Technology: Desktop Printing Today
Hands on: Choosing a printer

High Speed Network Technologies
Behind the standards
Understanding ATM
Product previews

Plus: PCQ's Summer 96 CD-ROM!
The Internet Special
For more details: page 169

JUNE 1996

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Building A PC—DIY Tips

Suggestions for the aspiring assembler

anning

Look around for special deals—instance, of a Pentium board, chip, mory and hard drive. Make sure 're buying from an authorized ler—and get a receipt for what you

Be careful when buying different pherals and make sure that they be compatible, and that they have right cables. For instance, the 3.5" ppy drive needs a smaller power cord n the power supply—or a small pter. Buy good quality power cords ch fit the SMPS socket smoothly, firmly.

Use anti-static wrist-straps or ch a grounded metal surface before ling any cards (a metal water-ng is good).

Keep the cards in their anti-static king prior to assembly.

Right Tools

Screwdriver set with different bla-flat "-" and Philips "+" tips.

Sufficient screws and spacers of right size. Good quality screws are th the bit more that they cost.

You may need some Fevicol or ckfix, for instance to stick the ker to the cabinet.

It also helps to have, though these not necessary, tweezers, a small of needle-nose pliers, a wire crim-stripper, a chip insertor/extractor, cotton swabs or "Johnson's Buds" some petrol or spirit, to clean the p-strip connectors of plug in cards, ppy drive heads, and anything else may be dirty. A vacuum cleaner—ferably a small one—can help you keep things clean later. A multimeter *could* come in useful for troubleshooting, but you can do without it.

Choosing the Right Cabinet

- **Standard, horizontal desktops** can accommodate up to four peripherals, but are neither popular nor easily available.
- **Slimline cabinets** can't accommodate very few cards and fewer drives. Not recommended, except for diskless workstations.
- **Mini-Towers** have four bays for peripherals that require frontal access (CD-ROM and floppy drives) and additional bays for HDDs. These are most popular.
- **Large Towers** have space to handle as many as nine drives and quite a few cards. These are overkill for desktops—use them for servers.

When upgrading or building a computer, get a motherboard with 32-bit ISA/PCI slots. After adding your I/O controller and video cards, there should be at least three or more free slots for later additions.

Memory

- Check the type and number of pins (30- and 72-pin) for the SIMM sockets on your motherboard
- Most 486 and higher boards use 72-pin SIMMs. Check your motherboard to see which type it uses. The manual provided usually specifies the minimum SIMM slots to be filled.
- It's better to use fewer higher-capacity SIMMs instead of blocking the slots with lower capacity ones. It's cheaper that way, too.

Video Cards

- Standard VGA cards should have 1 MB of VRAM. High-res graphic accelerators should have 1...2 MB.
- Choose your card depending upon the type of apps you plan to use. For heavy graphics use, an accelerator is good.

Controller Cards

- An **IDE** card usually supports up to two HDDs (or one HDD and a CD-ROM drive) two floppy drives, two serial ports, a parallel port and, often, a game port. But many Pentium boards have all this on-board—you don't need a separate card!
- **A SCSI** (pronounced scuzzy) drive needs a SCSI card. Faster hard drives and CD-ROMs use SCSI, but you won't usually need it.
- **A sound** card is required for multimedia applications. This often also has a IDE or SCSI interface for a CD-ROM, and a game port. SoundBlaster is the most common standard; other cards are usually "compatible".
- Other cards available include **network** cards for various network architectures such as Ethernet, Token Ring, FDDI, etc, as well as Telephony and Fax/Modem cards.

Storage Devices

- **Hard drives**: Applications available today require vast amounts of disk space. Opt for at least 540 MB or 630 MB, or 1 GB if you need a lot of disk space (say for heavy graphics work—or to install packages like CorelDRAW or PerfectOffice.
- **Floppy drives**: The 3.5" format is standard. Don't bother with 5.25" ones.
- **Backup** devices recommended include QIC-format tape cartridge drives, the newer Iomega Zip drives, and the SyQuest removeable hard drives.

External

- **Monitors:** The minimum should be a 14" VGA mono monitor. Look for a clear, rectangular picture, preferably with a flat screen. Low-power, power-manageable "Energy-Star" rated monitors are very good if your motherboard has "DPMS" support.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

- **Keyboard**: Probably the best and the most easily available are the PC/AT-types with 101 keys.
- **Pointing Devices:** These are available either as mice or as trackballs from Logitech, Microsoft, and Genius.
- **CD-ROM drives:** Double-speed drives are cheapest, and are usably except for video-heavy multimedia. You can buy quad and 6X drives, too.

Anil Chopra at PCQ Labs

How difficult is it to build your own computer?

It isn't. It's easier than building a transistor radio, or a wooden bookshelf. That's because it's all modular, and digital.

The toughest and most time-consuming part of it is making all the right choices about what you need, and buying all the parts.

For this, plan what you need and decide on the parts and assemblies from the next Consult the parts checklist in section. Get the parts, and put all together—from the motherboard to the screws. And start on construction.

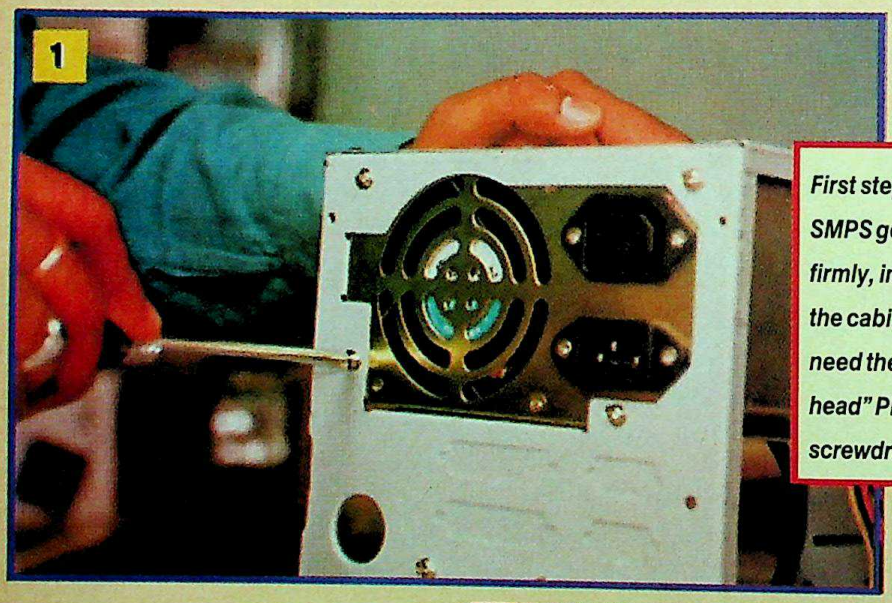
Remember—some of this electronics is static-sensitive. Make you are adequately grounded—working on a carpeted area, and to connect your metal watchstrap (or bangles) to a watertap or the with an electrical wire.

COMPONENT CHECKLIST

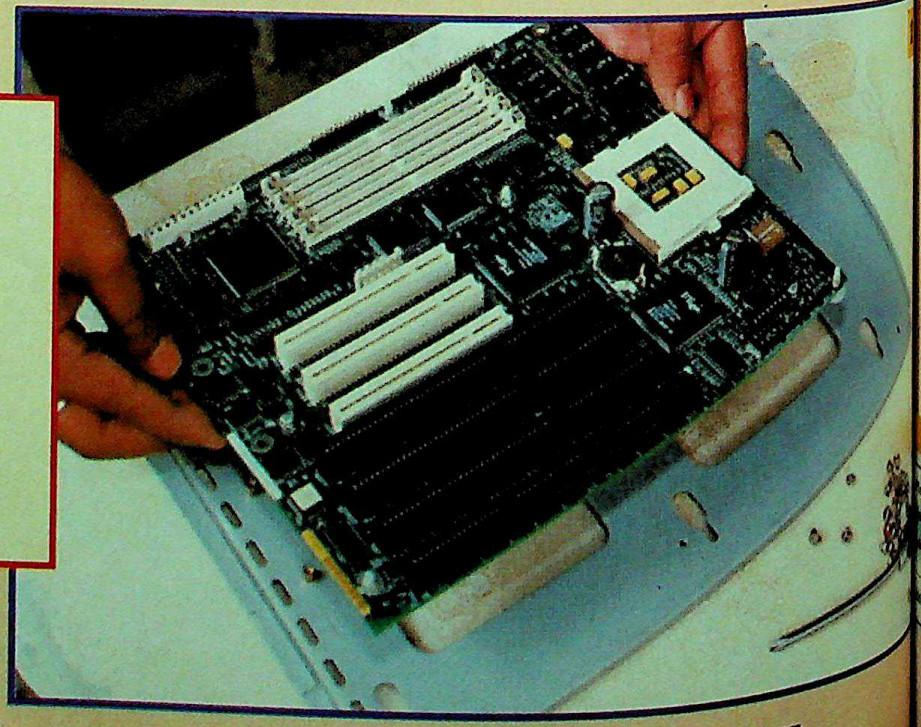
Components	Price
Pentium/75 motherboard	Rs 16,745
8 MB RAM	Rs 9,000
635 MB hard drive	Rs 10,500
3.5" 1.44 MB floppy drive	Rs 1,500
Cabinet + 200W SMPS	Rs 2,426
Keyboard	Rs 1,300
Trident SVGA 8900	Rs 1,200
Microsoft Mouse	Rs 1,500
SVGA mono monitor	Rs 3,600
Total	**Rs 47,771**

Components	Price
Options and alternatives:	
Trident SVGA PCI	Rs
Diamond Stealth	Rs
14" color VGA monitor	Rs
1 GB hard drive	Rs
SoundBlaster kit (4x)	Rs
Acer Sertek kit (4x)	Rs
Logitech First Mouse	Rs

Prices are end-user, inclusive all taxes in Delhi. You could also get "package deals" of multiple components for lower prices. Sources: Priya International, Computers, Fortune Marketing.



First step: screw the SMPS gently, but firmly, into place on the cabinet. You'll need the "cross-head" Philips screwdriver.



Some systems have a detachable mounting-plate for the motherboard, such as this one; others take it straight on the chassis. Don't forget to use plastic "spacers" to keep the board away from the metal chassis.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Oracle Workgroup 2000
Proof that you can.

As a front-end development tool,
Oracle Power Objects
is simply the best !

"Says who?"

"Power Objects can be described as 'Visual Basic on database steroids'. It's an elegant tool that's easy to use.
- February, 1996, Lars Danielsson, PCWORLD

A combination of strong ease of use and high-performance connectivity should put Oracle Corp.'s new Power Objects in the company of the top desktop development tools.
- August 7, 1995, Ed Dowgiallo, INFOWORLD

Oracle Corp. has done an outstanding job of simplifying the development of general-purpose client/server applications with Power Objects 1.0, an easy-to-use, 16 bit programmable front-end tool the company released in late July.
- September 6, 1995, Bob Gallagher, PCWEEK"

Within a few months of its release, Oracle Power Objects, the front-end visual programming tool for standalone and workgroup application development, has taken the entire IT industry by storm.
Packed with features like drag-and-drop, object-oriented programming and robust data handling capabilities, it enables developers to deliver powerful client / server applications easier, faster, and with less code than ever before.
It's no wonder that Oracle Power Objects is scoring so well in all international PC magazine reviews.
And if hearing is not believing, just mail / fax us the attached coupon.

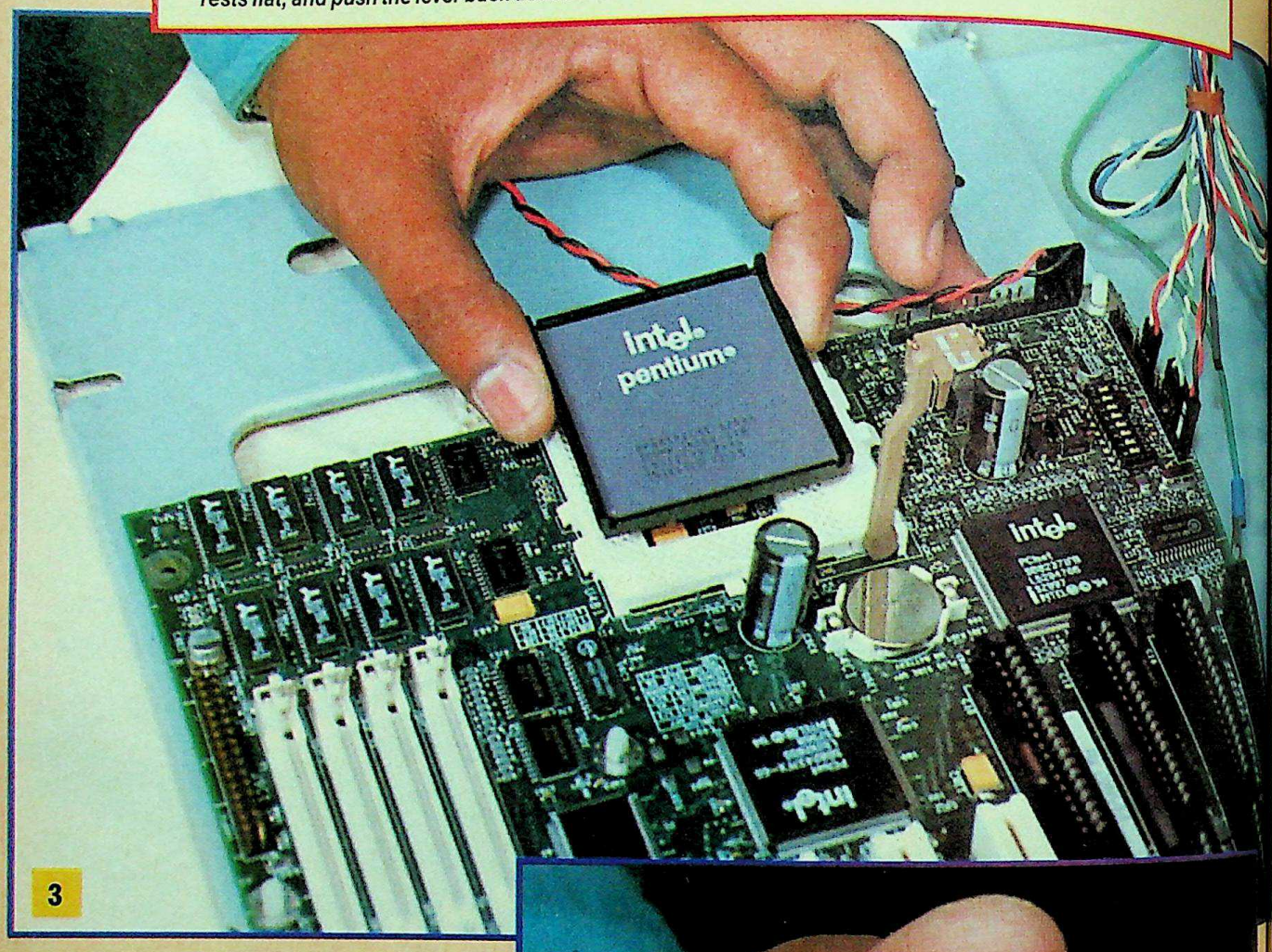
ORACLE®
Enabling the Information Age

Please send me a free copy of PCWorld's *review of Oracle Power Objects.*
Name : ..... Organisation : ..... Designation : .....
Address : .....
Tel : ..... Fax : ..... E-mail : .....
Please fax coupon to : Rajeev Mittal, Oracle Software India Pvt. Ltd., 15th floor Dr. Gopal Das Bhawan, 28 Barakhamba Road, New Delhi 110 001. Tel.:3720569 / 70 / 71, Fax: 3720572.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Connect wires from the motherboard to the speaker, reset switch, etc—these are marked on the motherboard. You may also need to set jumpers and switches on the motherboard. Again, this is detailed in the manual. Raise the lever on the ZIF (zero insertion force) socket. Align the Pentium (pin #1 is out of alignment on an inside corner, so the chip only goes in one way). Drop it gently in—don't force it. See that it rests flat, and push the lever back down. The Pentium should be firmly in place.



3

The Pentium processor needs a heatsink. First rub "heatsink compound" (a silicone paste) on the chip's surface, then clip the heatsink on. You may want to ask your motherboard vendor to do this—you don't need to buy lots of silicone paste. You could also use a heatsink with a cooling fan, though this is not essential with the new 3.3 V Pentiums. Unless you plan to use the machine in a very warm room.

4

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AS SIMPLE AS CREATING APPLICATIONS

USING ORACLE DEVELOPER/2000.

With Oracle Developer/2000, building a Client/Server application is child's play. The simple yet powerful application generation capabilities help to create applications from database definitions without writing a single line of code. It sets new ease of use and productivity standards for Client/Server RAD tools through the use of rapid application design (RAD) techniques, object orientation and unified client and server support. Oracle Developer/2000 incorporates a set of advanced forms, reports, graphics and online documentation tools. What's more, it blends all the object-oriented benefits. In fact, object orientation is just a click, drag and a drop away. With Oracle Develper/2000, you no longer need to use client-centric Tools for Client/Server applications. Since Oracle7 and Oracle Developer/2000 use the same PL/SQL, you can visually DRAG AND DROP your application logic between client and server for a balanced Client/Server application. That's Application Partitioning.

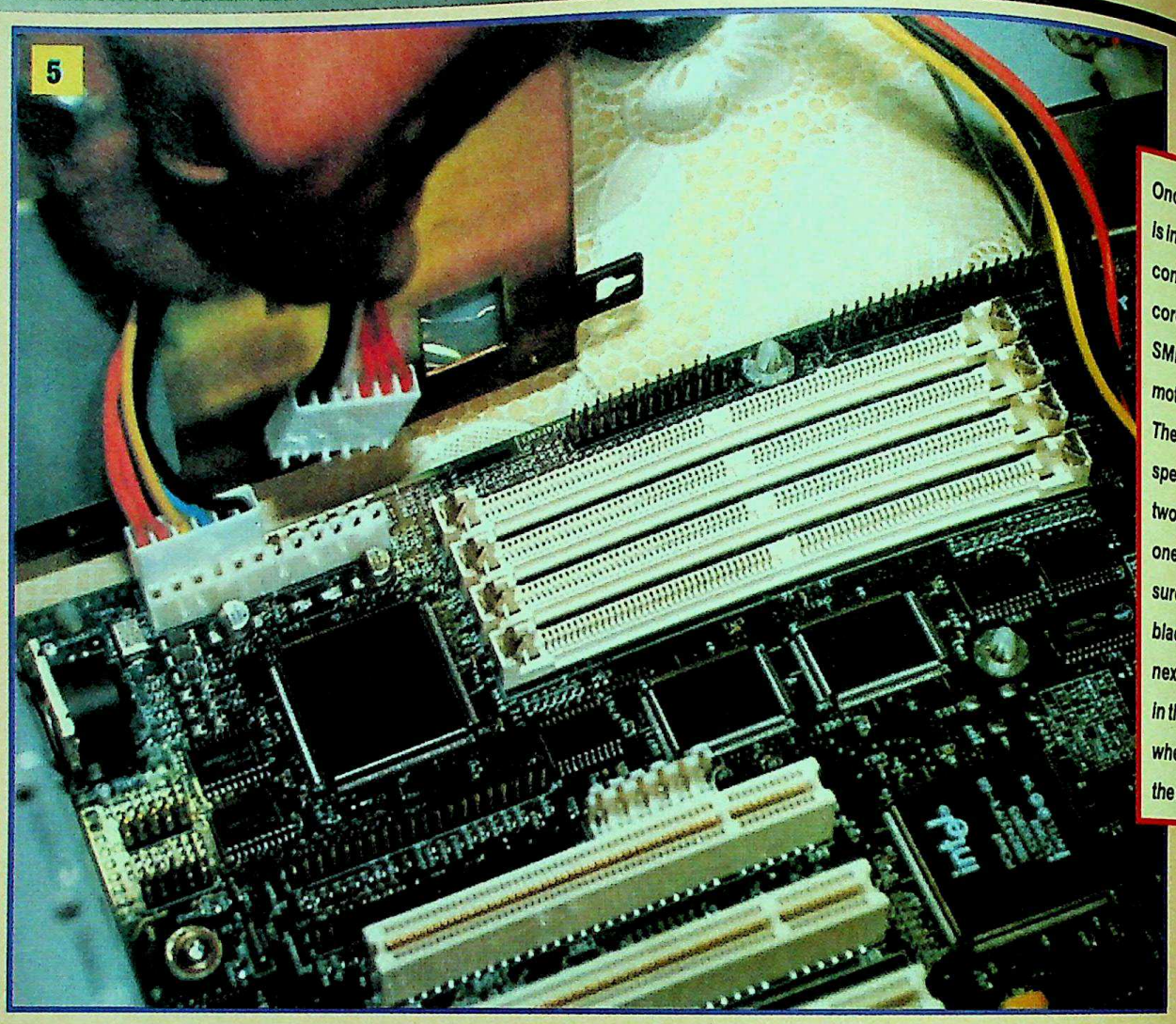
Oracle Developer/2000. ***Second Generation Client/Server Development Tools.***

ORACLE®

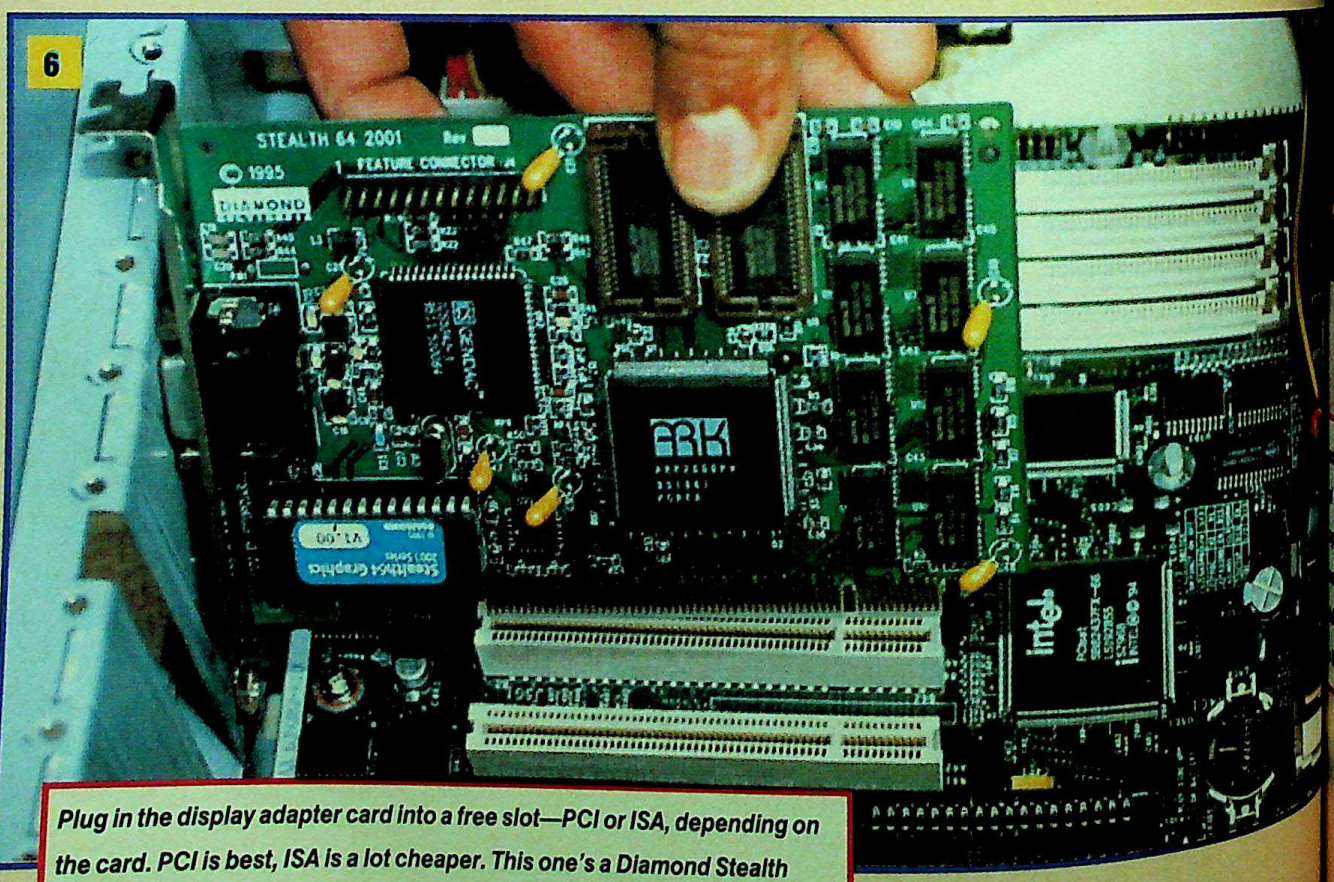
Oracle Software India Pvt. Ltd., 705, International Trade Tower, Nehru Place, New Delhi -110019. Tel.: 6475286, Fax : 6467923. Regional Offices : New Delhi Tel.: 6462625, Fax : 3427653. Bombay Tel.: 2832801, Fax : 2853005. Calcutta Tel.: 2407450, Fax : 2474614. Bangalore Tel.: 5593830, Fax : 5593932. Madras Tel.: 8275191, Fax : 8257258.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



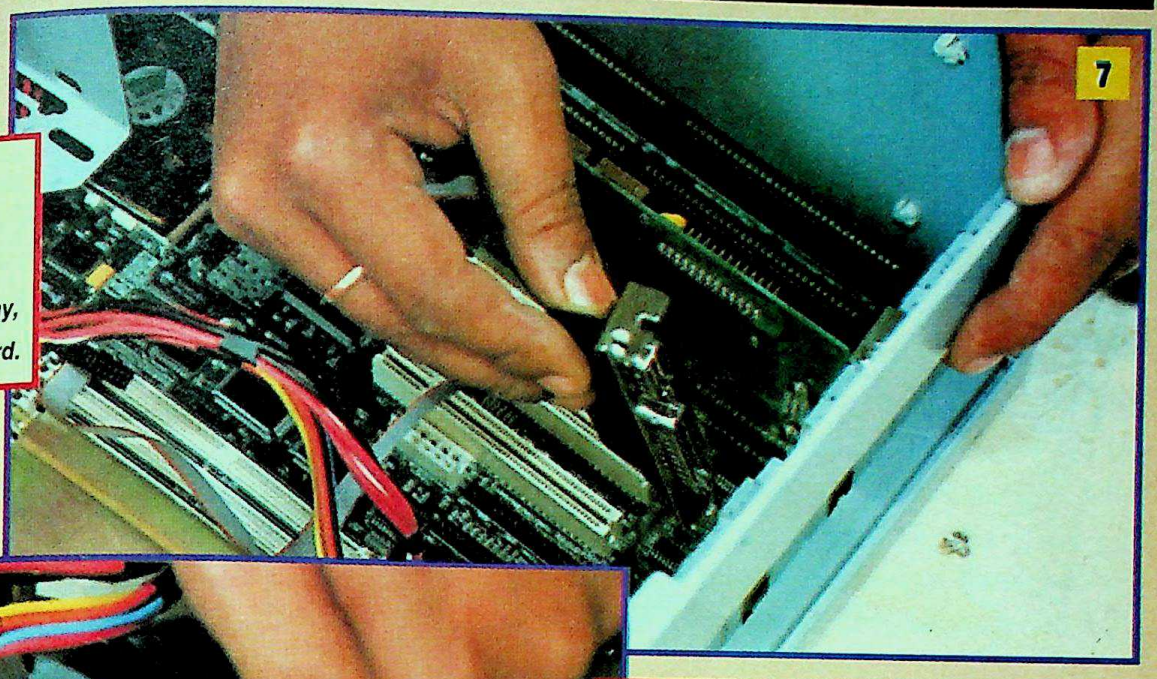
Once the Pentium is installed, connect the power cords from the SMPS to the motherboard. These are two special cords, with two black leads on one side. Make sure these two black wires are next to each other, in the middle, when you plug in the connectors.



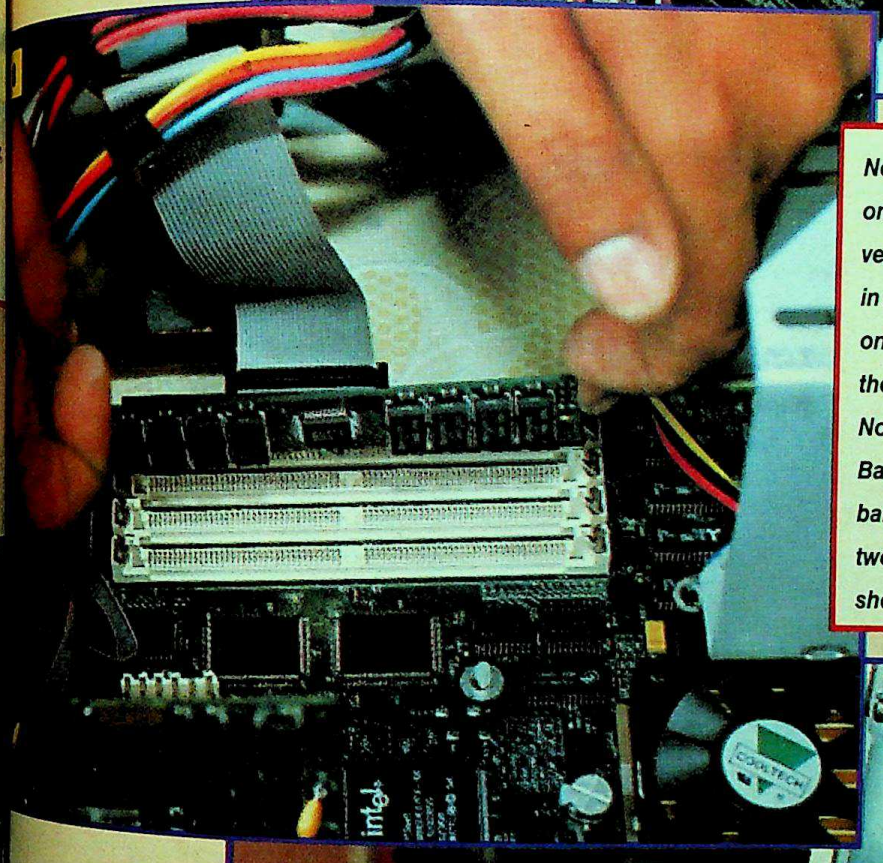
Plug in the display adapter card into a free slot—PCI or ISA, depending on the card. PCI is best, ISA is a lot cheaper. This one's a Diamond Stealth PCI card. For heavy graphics, look for a PCI card with 2 MB of VRAM.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

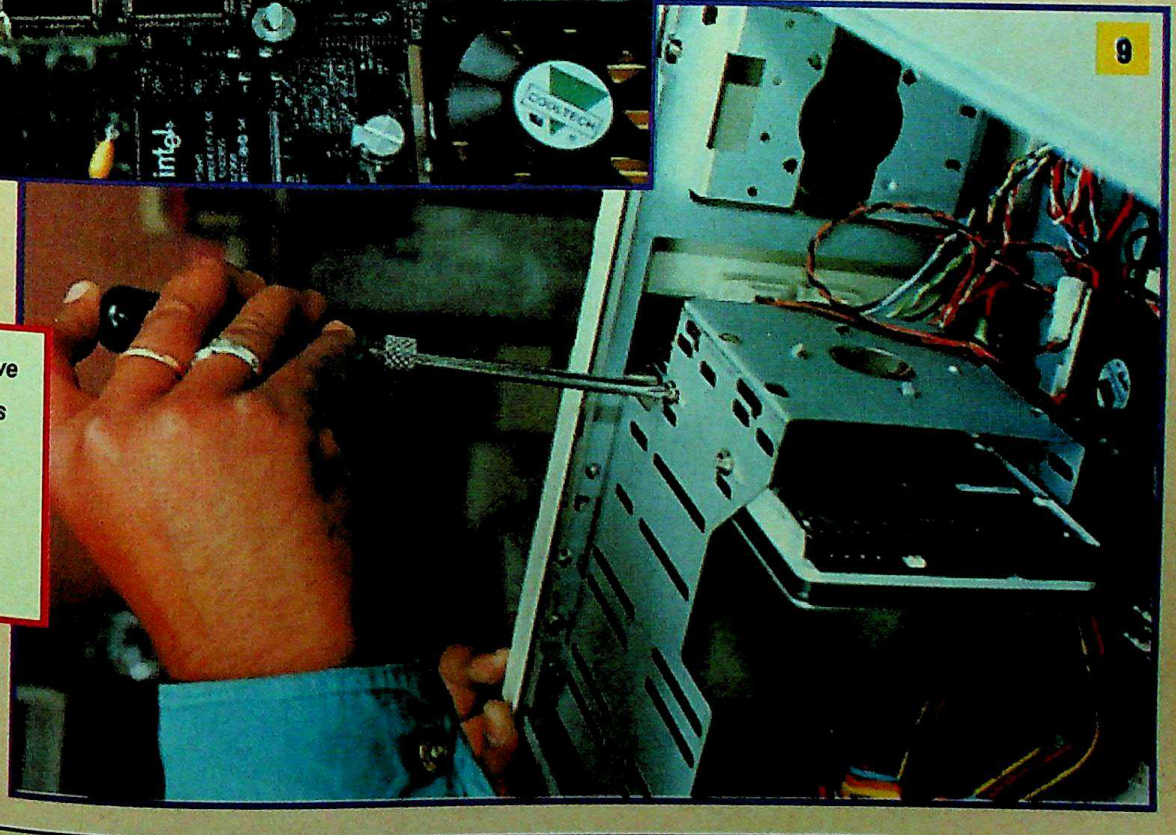


Connect the serial and the parallel port cables into the connectors on the motherboard. If there aren't any, you need to use a multi-I/O card.



Now install the RAM. This is tricky, till you do it once. Preferably ask someone (such as your vendor) to show it to you once. The SIMMs drop in at an angle (around 45 degrees)—smoothly, only one way. Then push them back gently till they click firmly into place.

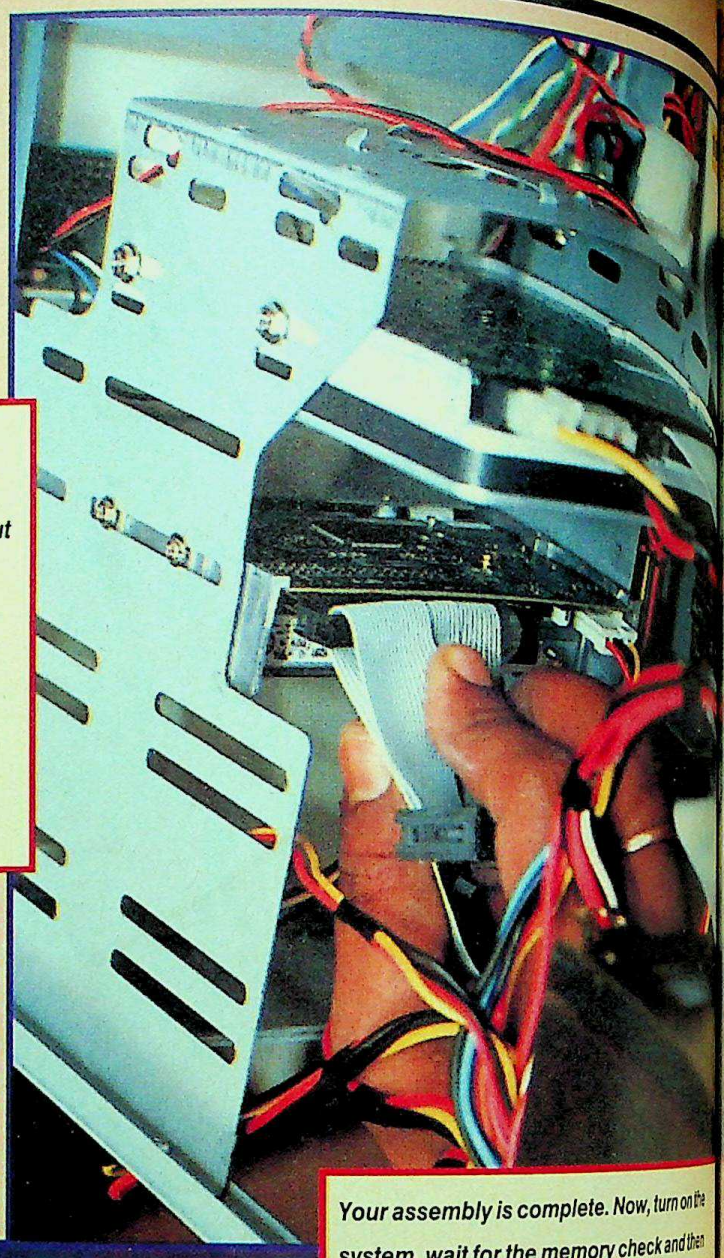
Note that Bank#0 needs to be filled first, and then Bank #1 and any others. Usually, all the slots in a bank (two or four) need to be filled. Here, we have two 4 MB SIMMs in banks 0 and 1. The visual shows the installation of a SIMM in bank 1.



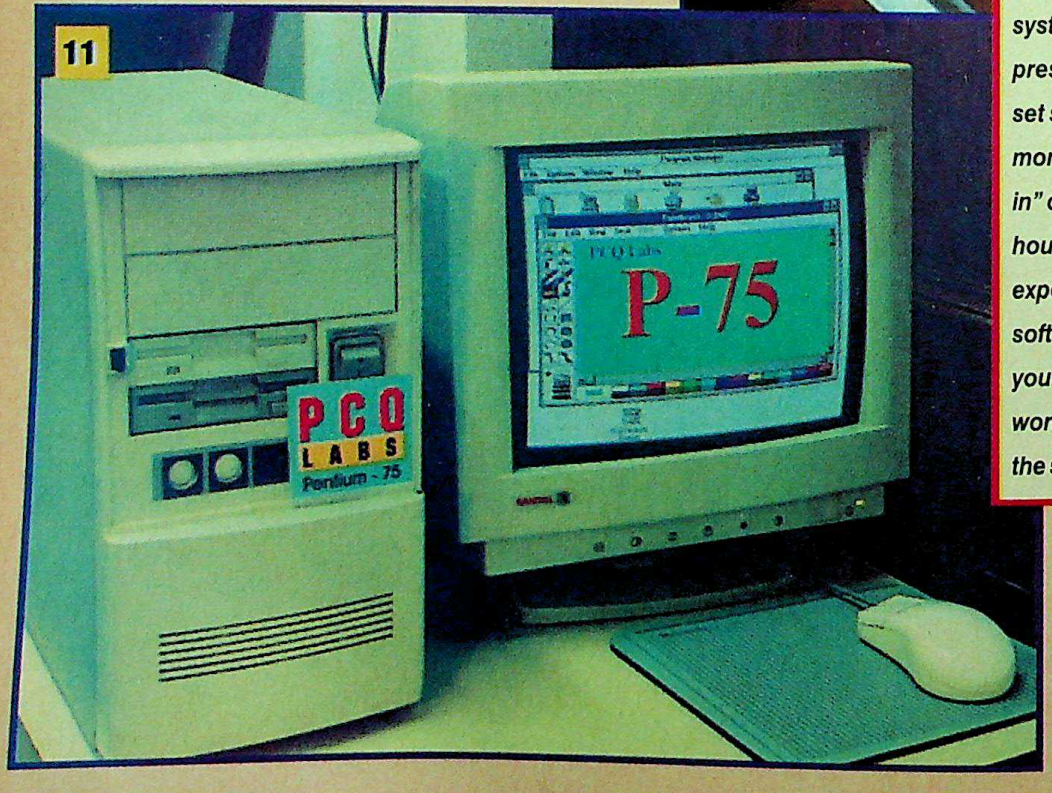
on the line are the hard drive
floppy drive. Align the drives
erly, slide them in, and fix
in place with the screws
ch should be firm, but not
ight).

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Connect the data cables from the HDD and the FDD to the motherboard. These cables are supposedly polarized, but some can go in the wrong way, and others may need to be put the wrong way! To align the connector, follow pin 1—a thin red line runs along the corresponding cable strand. On the drive, pin 1 is marked. Plug in the power cords connectors too—these are polarized and won't easily go in the wrong way. Note that the 3.5" floppy drive requires a smaller power connector than the usual size—you should find one such connector with your power.



Your assembly is complete. Now, turn on the system, wait for the memory check and then press the BIOS Setup activation keys and then set such things as the type of HDD, FDD, monitor, etc. This is the ideal time to do a "Burn in" of your system—keep the system on for 24 hours continuously to ensure that it does not experience any glitches and then load whatever software you need from the OS right down to your favorite DOOM. If your system does not work properly, check that you have followed all the steps religiously.

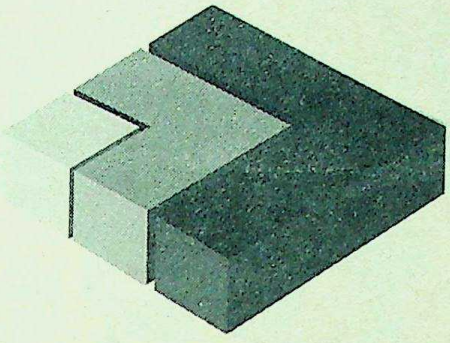
Balaji N at PCQ Labs. Photography: Sterling Photographics, Bangalore. and assistance: Intel, Priya Internat Lampo Computers.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NETWORK INTERFACE ADAPTERS

from



SMC®*

for superior system performance at affordable price from Priya

HIGH QUALITY **WIDE COMPATABILITY** **SIMULTASKING** **LIFE TIME WARRANTY**

ADAPTERS **HUBS** **STACKS** **SWITCHES**

WITH SUPERIOR FEATURES

• Plug and Play • User Programmable Filtering • Error Protection • Easy Installation • Port Trunking • Virtual Lan Support

WITH ASSURANCE OF

• Genuine Quality • Technical Support • Prompt Service • Lifetime Product Warranty

All from PRIYA, the authorised distributor for SMC

NOW STOCKS AVAILABLE FROM OUR LOCAL OUTLETS ALSO.

Priya GROUP

DEALER ENQUIRIES SOLICITED

EASY MIGRATION TOWARDS FUTURE TECHNOLOGY

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 285 4037

Branch Offices: Bangalore: Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422378, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

**The Logos and Trade Marks shown above are of their respective owners.*

Vandit Designs PIL/03/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WRITING TSRs

How to create TSR programs for DOS using high-level and assembly languages

Applications such as Norton Utilities that recover data from damaged disks and can actually fix corrupted data may seem like magic to the uninitiated. Amateur programmers often wonder how this recovery is done, particularly since the redundant data for error correction is barely 15 percent.

When DOS 3.3 was released, people were amazed by the background print utility, PRINT.COM. What had hitherto been a single tasking operating system could suddenly do two things simultaneously. All over the world, hackers rushed to disassemble the program to see the techniques it used to achieve what it did; and Terminate and Stay Resident (TSR) programs were born.

It was only with DOS 5.0 that Microsoft finally decided to document all the functions that allowed programmers to write TSRs. While multitasking OSes such as Windows, Linux and OS/2 make TSRs redundant, as long as DOS lives, TSR programming will have its applications.

A TSR works by loading itself into RAM, doing any work it has initially and then returning control to the command shell after reserving some memory for itself. Normal programs deallocate whatever memory they use before quitting, but TSRs store some of their code in RAM. This code is usually pointed to by specific interrupts depending on when it needs to be activated.

Interrupt (Int) handlers are small procedures stored in the computer that are called whenever a certain event takes place. Int 9h is called when a key is pressed or released and Int 28h when the system is free. Other interrupts act like procedures which are called upon by other interrupts or programs to accomplish a task. For example, Int 13h offers an API for most direct disk handling routines just as Int 10h offers an API for most screen related functions.

The addresses for each of these interrupts (256 in number) are stored in the Interrupt Vector Table (IVT) stored at memory location 0000:0000. Every address is stored as a four byte field in the format segment:offset. Calculating the offset of a specific interrupt is very easy and is returned by the simple formula IntNox4.

TSRs redirect a specific interrupt to their own code depending on when they wish to activate. When called, if all their activation conditions are met, they activate. If not, they directly hand over control to the earlier routine that serviced the interrupt. The illusion of multitasking is achieved by giving small time-slices to the TSR at intervals so that both the foreground prog... well as the TSR appear to ... simultaneously.

TSR programming imposes a ... unique constraints on the prog... because of a their special natur... they occupy memory even a... quit, TSRs need to use as little m... as possible when resident. Also, ... the TSR is going to take up time ... another program is running ... foreground, it should finish its ... soon as possible and return co... avoid any noticeable drop in ... Both these factors suggest ... Assembly is the language of ch... most TSR writing. Despite the fa... today's memory managers can loa... TSRs into high memory, it is a... to keep TSRs as compact as poss... the number of TSRs and drive... one needs has increased.

Another problem of TSR p... mming is re-entry. Some int... allow themselves to be called rep... when one instance of the same ... is still running. Interrupts like ... Int 21h cannot be called when ... of it is already running except u... special conditions.

Pop-ups are a type of TSR th... appear on-screen in a window ... activated. One of the most famou... ups is Sidekick. Almost a perso... sonal information manager, thi... uded productivity tools such ... calendar, editor, reminder, and ... lator; all available at a keypres... downside was that it consumed ... ping amount of memory when ...

Today's pop-ups (and other ... that store huge amounts of da... swapping where those parts of ... not always needed are stored ... (or in extended or expanded ... and are only moved to conv... RAM when required. The minor ... mance penalty involved in it ... than offset by the reduction ... required.

Before writing a TSR decid... parts should be resident and w... to be discarded (transient comp... after initialization. DOS co... memory to keep reserved ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

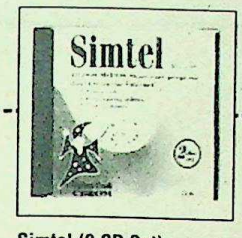
Digitized by Arya Samaj Foundation Chennai and eGangotri

microware CD-ROM

CICA 3/96 (2 CD Set)

The ultimate collection of Shareware for Windows! 3,062 Programs (1,223 Mb) for Microsoft Windows. Utilities, Games, Icons, Programming Tools.

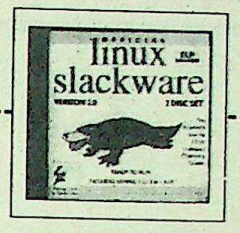
Rs. 1,125/-



Simtel (2 CD Set)

Direct from Internet, over 1200 Mb (10,000 files) of MSDOS Shareware programs.

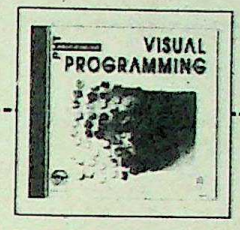
Rs. 1,650/-



Linux 3.0 (2 CD Set)

Slackware Linux is the Internet's favourite 32 bit Unix clone. Linux is compatible with most Intel PC hardware from 386 to Pentium.

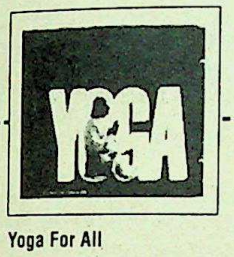
Rs. 1,575/-



Visual Programming

Source code and tools for Visual Basic and Visual C++. Source Code, DLLs, Utilities, Custom Controls, Control Utilities and more.

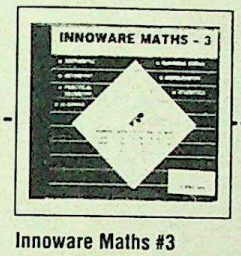
Rs. 1,425/-



Yoga For All

An interactive yoga guide by the master - Mr. B. K. S. Iyengar. A guide to over 40 Asanas. 45 minutes of Video. 4 hours of Audio and over 1000 images!

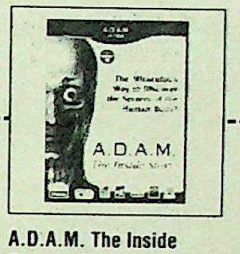
Rs. 1,450/-



Innoware Maths #3

A convenient collection of Maths tutorials for class VIII students. Also available, over 20 other tutorial on different subjects from primary to class X. For Windows

Rs. 1,750/-



A.D.A.M. The Inside Story

The miraculous way to discover the secrets of human body! Award winning program for Windows and Mac.

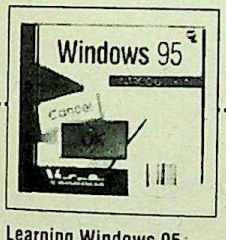
Rs. 2,500/-

Thinking Things 2

Imaginative Tools and Toys to Strengthen Kids' Thinking! Develops Essential Thinking Skills for Kids 6 to 12!

Rs. 1,000/-

Our Catalogue is available on PCQuest Winter '95 CD-ROM



Learning Windows 95

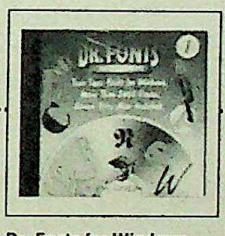
Interactive CD-ROM training! Over 4 hours of detailed instruction, full motion video and sound guide! Training titles also available for other software.

Rs. 2,750/-

3500 Colour Clipart #1

An enormous collection of high quality detailed images in full colour. Over 40 categories. For Windows and Mac. Also available Vol. #2

Rs. 1,450/-



Dr. Fonts for Windows

Over 2,000 True Type Fonts for Windows. Includes screen files which allow you to view the fonts before installing!

Rs. 400/-

101 Only The Best Games Volume #4

Enjoy a collection of over 100 latest and very best shareware games and playable demos.

Rs. 1,000/-

Ask for your copy of our CD-ROM catalogue on disk. Our CD-ROM Catalogue-on-Disk software gives you complete information (over 300 pages) including features, system requirements of all the CD-ROM titles that we stock. You also get 10 True Type Fonts & 100 B&W Cliparts Free! The Catalogue is available on 1.44 Mb Floppy Disk and is priced at Rs. 100/- The Catalogue amount is adjustable against your first order of any CD-ROM Title (except Walnut Creek and Pht Sampler). The Catalogue requires 640 Kb RAM and 2 Mb of Hard Disk Space.

Over 300 titles for Dos, Win/Win95, OS/2, Unix & Mac on General / Shareware, Operating Systems, Programming Tools, Utilities, Edutainment, Internet, BBS, Astrology, Health, Fitness, CAD, DTP, Cliparts, Fonts, Animation, Graphics, Video, MPEG II Movies, Video CDs, Photo CDs, Image Libraries, Games, Music, Sound & many more

Microware Computer Services

1, Paras, Near Dr. Baliga Nursing Home, S. V. Road, Goregaon (West), Bombay 400 062 Tel : 872 74 46, 872 97 25, Fax : 872 74 46

Microware CD-ROM collection is also available at :

RAINBOW, 41, Crescent Mansion, Opp. Gamdevi Police Station, Nana Chowk, Bombay 400 007. Tel : 387 02 60, 388 14 43 Fax: 386 09 91

DEALERSHIP ENQUIRIES SOLICITED

We accept Master and Visa Credit Cards. For Outstation Orders, 100% advance has to be remitted by Demand Draft in favour of Microware Computer Services payable at Bombay. Outstation orders will be shipped by courier. Please add Rs. 100/- for packaging and courier charges. When ordering our Catalogue, please add Rs. 25/ for shipping and packaging charges. Microware is the authorised distributor of Walnut Creek CDROM (USA), Pacific Hi-Tech (USA), Tech Express Inc. (USA), PS Multimedia (USA) and Accurate Research Inc. (USA). We are not responsible for any typographical errors. Prices subject to change without notice.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

This program (compilable in TurboPascal 6.00 and above) is a simple TSR that switches a VGA screen off and on depending on the NumLock status. It uses a VGA specific interrupt to do so and demonstrates very powerful memory saving techniques. The compiled version takes less than 350 bytes of memory when installed—a record for a high level compiler—even when assembly does most of the work.

Instead of using normal variables to store the data, information such as the address of the old Int 9 is stored within the code segment. The dummy procedure DATASTORE is placed just to reserve space for the variables. While keeping variables in the data segment is more convenient, the downside is that the TP routines to access the variables too need to be kept resident.

Initially, control is transferred to the INITIALISE proc... *which* first deallocates the memory reserved for the environment... then stores the address of Int 9h (called for every key press... release) in the area marked for data. A DOS function call is ... to redirect Int 9h to the procedure DISPSWITCH, which co... our resident code. After printing a brief message on the screen, ... number of 16 byte paragraphs before the procedure MARKER (separates the resident and transient parts) is calculated and ... resident.

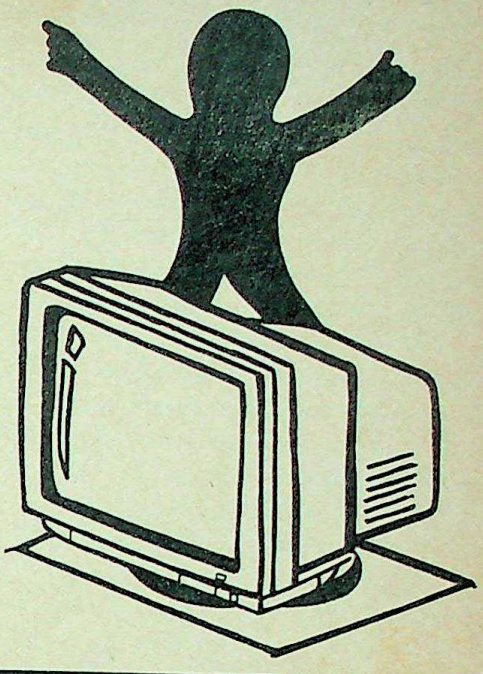
The procedure DISPSWITCH is now called for every key-p... It checks the screen's current status and then switches on or ... screen according to what is needed.

```
{$A-,B-,D-,E-,F+,G-,I-,L-,N-,O-,R-,S-,V-,X-}
{$M $400,0,0} {Set stack to 1024 bytes and heap to 0}
uses dos;
{Instead of using variables in the data segment, all data used by ISR is in code segment, so that rest of program+usual data handling code can be shown the door}

Procedure DataStore;assembler;
asm
db 1,                12,12,12,12
 {^Current screen status  ^Address of original Int 9}
end;

{Procedure that hooks on to Int 9 and controls screen}
procedure DispSwitch; interrupt; assembler;
asm
 in al, 60h     { Get the scan code from port $60 -keyboard }
 cmp al, 46h    { Is ScrlLck (46h) pressed ?              }
 jne @EndProc   { If not then jump to @EndProc           }
 mov ah, 12h    { Select the subfunction for the         }
 mov bl, 36h    { display on/off function request        }
 cmp Byte(DataStore), 01  { Is the display on ?          }
 je @DispOff    { If yes then jump to DispOff and switch off}
 mov al, 00h    { Else switch the display on             }
 int 10h       { Call video interrupt 10h with regs set  }
 mov Byte(DataStore), 01  { Remember, display is now on  }
 jmp @EndProc   { Jump to the end                        }

@DispOff:
 mov al, 01h    { Switch the display off                 }
 int 10h       { Call Video Interrupt 10h                }
 mov Byte(DataStore), 00  { Remember, display is now off }

@EndProc:
 pushf         { Prepare to call the old Int 9           }
 call dword ptr cs:DataStore+1 {Call the old Int 9       }
end;

procedure Marker;assembler;{Procedure to mark the end of TSR part}
asm
end;

{Initial message}
const
   AuthorStr : string =
         'SBLANK Installed _ Hotkey is ScrlLock';
var
   paras : word;      {var for Amt of TSR code to keep}
   k     : procedure; {var for addr of Int 9          }
   p     : ^byte;     {var to point to Datastore      }

procedure Initialise;
begin
 GetIntVec($9, @k);    {Get addr of Int 9}
 p:=@DataStore;        {Get addr of Datastore}
 inc(p);               {Skip first byte (Screen on/off status)}
 move(k,p^,4);         {Move addr of Int 9 to datastore}
 SetIntVec($9, Addr(DispSwitch)); {Set Int 9 to dispswitch}
 {Calc amt of memory to keep resident - in paras}
 paras := (ofs(Marker) + 15) div 16 + 16;
 writeln;
 writeln(authorstr);   {Write message}
 writeln;
 asm
   push ds            { Push the Data Segment on to the stack}
   mov ds, PrefixSeg  { Load the PSP into DS}
   mov es, ds:[02Ch]  { Load the environment address into
}
   mov ah, 49h        { Deallocate the environment}
   int 21h
   pop ds             { Pop the Data Segment from the stack}
   mov ax, 3100h      { Select to make TSR with return code
}
   mov dx, paras      { Amt of mem to keep}
   int 21h           { Terminate and Stay Resident}
 end;
end;

begin
 Initialise;
 {If it's come here, couldn't Terminate and Stay Resident
error}
 writeln('Error initializing. Could not go resident');
end.
```


CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Building Blocks for Computer Professionals to Stay on the Cutting-Edge!



FOUNDATIONS

ILDING BLOCKS FOR
OGRAMMERS

e value, high-margin Foundations series help the
er to master the art of power -programming. The
es carries him through the Introductions and user-
ace to Applications and Advanced Techniques.

undations of Delphi
pplication Development
Ken Swan

is book provides working programmers a complete
ide to Delphi that helps create programs as powerful
d efficient as ones written in C and C++
0 Page • Price: Rs. 345 (with disk) 450 (with CD-ROM)

undations of Visual Basic 4
rogramming
Doug Hergert

r book is the ultimate source to discover the
damentals for all of your future programming in the
test release of Visual Basic. It uses task approach to
ver every facet of Visual Basic.
Pages • Price: Rs. 325 (with disk) 450 (with CD-ROM)

undations of Visual C++
rogramming for Windows 95
Paul Yao

is book addresses real world programming for all
ur future Visual C++ developments. Shows how to
mand every facet of Visual C++ for Windows 95.
Pages • Price: Rs. 325 (with Disk)

BIBLES

COMPREHENSIVE TUTORIAL REFERENCES

Bibles affords readers unparalleled coverage of every computing task from *start-up to shut-down* – and then takes the reader one step further with expert advice on mastering advanced features.

- **Windows 95 Uncut**
  By Alan Simpson
  This book reveals everything about Windows 95 from setup to shutdown. The book serves as comprehensive tutorial/reference for everyone who wants to use Windows 95.
  800 Pages • Price: Rs. 325, 375 (with 2 disks) 450 (with CD)

- **Excel for Windows 95 Bible**
  by John Walkenbach
  This book is your ultimate tutorial/reference to master Excel features and commands.
  1000 Pages • Price: Rs. 325, 395 (with disk) 450 (with CD)

- **Access for Windows 95 Bible**
  by Cary Prague and Micahel Irwin
  This book is your comprehensive guide to Access that covers everything from setup to shutdown and includes detailed description of Access Basic Programming.
  1150 Pages • Price: Rs. 425 (with Disk)

- **Word for Windows 95 Bible**
  by Brent Heslop and David Angell
  This hands on tutorial/reference provides everything you need to master Word for Windows 95.
  1000 Pages • Price: Rs. 325, 375 (with disk) 450 (with CD)

SECRETS

INVALUABLE TRICKS & TRICKS FOR SOFTWARE DEVELOPERS

Secrets series take the reader on a back stage tour of each books topic and reveal their time-saving tricks and power user secrets. Readers learn from undocumented and little known features, tips and techniques.

- **Windows 95 Secrets**
  By Brian Livingston and Davis Straub
  This book provides developers, computer enthusiasts, MIS and IT Gurus with productivity enhancing tips and undocumented and little known facts facts which Microsoft doesn't — and won't — document.
  800 Pages • Price: Rs. 295 (only book), 450 (with CD-ROM)

- **Word for Windows 95 Secrets**
  by Doug Lowe
  This expert guide provides little known and undocumented features to turn you into an efficient and productive Words for Windows Guru.
  800 Pages • Price: Rs. 325, 375 (with disk), 450 (with CD)

- **Windows 95 Systems Programming Secrets**
  by Matt Pietrek
  This book digs into the internal details of Windows 95 and explains the relationship between Windows 95, Windows NT and WIN 32 to help you build stronger programs.
  800 Pages • Price: Rs. 395 (with disk)

Published in collaboration with **IDG Books, Inc. USA**

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Ph: 3268292-93 • Fax: 91-3280567
Branches: • **22/2 Mission Road, (Shama Rao's Compound) Bangalore-560027** Ph:2234025 Fax: 2240209
• **23-25 Zaoba Wadi, (Opp. VIP Showroom), Thakurdwar, Bombay-400002** • Ph: 2010941 Fax: 2053387
• **Khemka House, (Opp. Women's Hospital), Ashok Rajpath, Patna-800004** Ph: 653644

013/PCQ/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

beginning of the program, so the resident code must be in the beginning of the program so that the transient part can be discarded on becoming resident.

A very simple debug script for an assembly program that becomes resident, and doesn't do anything except execute a small loop every time Int 1Ch is called is given in Box 2. Int 1Ch is called every time Int 8h is called or 18.2 times a second. This allows users to chain routines that need to be executed frequently (routines that need to execute when the computer is free can use Int 28h or what PRINT.COM's routines use). The resident code is positioned right in the beginning, while the rest of the code is moved to the end. A jump instruction in the beginning transfers control to the transient part, which gets the address of Int 1Ch using DOS function call 35h. The address is returned in ES:BX which is then moved to offset 102 in the current segment. The next step is to make the program resident by calling Int 27h with the amount of memory to keep resident. A better way to do the same is to use DOS Int 21h with subfunction 31h. This allows you to return an error-code to the calling program. The amount of memory to allocate is given in 16 byte sized paragraphs, so the ... 65,535 byte size imposed ... previously (the maximum Int 27h ... take owing to the size of a word ... longer effective.

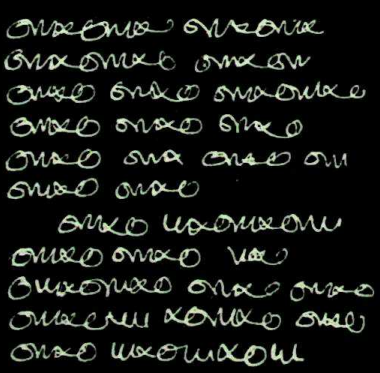
When programming in high ... languages such as Pascal or C, ... use commands like KEEP that ... the entire program resident ... enormous amount of memory ... wasted. Another point to be very ... about is to avoid calling a routine ... transient part from the resident ... when the program initializes and ... up its memory, the transient ... get overwritten.

To further conserve memory, ... can discard the environment block ... DOS makes a separate copy for ... program running. Hard code ... try to cut down on memory requirements ... even further by moving the code ... memory occupied by the PSP. ... remains allocated and cannot be ... destroyed until the program is ... nated. A small loop in the initial ... can easily overwrite the PSP with ... code. When done, the pointers to ... memory locations need to be adjusted ... to take this into account.

This debug script, compiled by Siddhant Bhansali, grabs Int 1c and executes a short loop every time this is called before handling control to the original handler.

```
n SLOW.COM
a 100
jmp 112
db 0,0,0,0
push cx
mov ax, 0F FF
loop 10a
pop cx
cs:
jmp far [102]
mov ah, 35
mov al, 1c
int 21
mov [102], bx
mov [104], es
mov ah, 25
mov dx, 106
mov al, 1c
int 21
mov dx, 112
int 27
{PRESS ENTER}
rcx
2e
w
q
```

SOMETIMES JUST USING YOUR FINGER CAN BE A FEAT.



Buy Spastics Society Greeting Cards.
Mail some hope today.

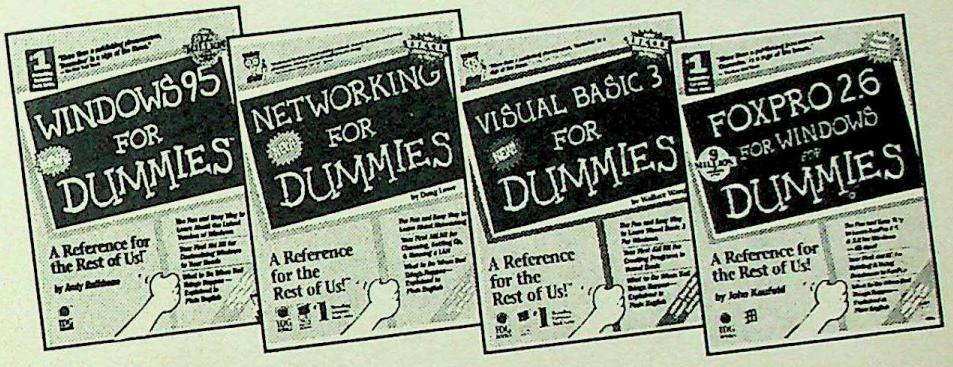
The Spastics Society of Northern India

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

100 WEEKS 100 TITLES 250 THOUSAND COPIES

Today every other computer professional — whether a beginner at TATAS or a seasoned engineer with SIEMENS — is seeking DUMMIES' help in solving his computer problems. With an ever growing popularity it's definitely a new role for DUMMIES in taking INDIA to the 21st century.. A fact that testifies to its wide appeal, reader-friendly format and presentation.



India Swears by Dummies Today

Operating System

• DOS 6.2/6.22 for Dummies	110.00
• Windows 3.1/3.11 for Dummies	135.00
• UNIX for Dummies	110.00
• OS/2 Warp for Dummies	175.00
• Advanced Unix for Dummies	150.00

Programming Series

• Visual Basic 3 Programming for Dummies	135.00
• Borland C++ Programming for Dummies	150.00
• OOP's Using C++ for Dummies	135.00
• 'C' for Dummies	150.00
• Power Builder 4 Programming for Dummies	175.00
• Visual C++ 2 Programming for Dummies	150.00
• Access Programming for Dummies	150.00
• dBASE 5 for Windows Prog. for Dummies	135.00

Desktop Publishing/Graphics/CAD

• CorelDraw for Dummies	110.00
• PageMaker 5 for Windows for Dummies	135.00
• PowerPoint 4 for Windows for Dummies	150.00
• AutoCAD for Dummies	135.00
• Desktop Publishing & Design for Dummies	135.00

Spreadsheets

• 1-2-3 for Dummies	95.00
• Excel 5 for Dummies	135.00
• 1-2-3 for Windows 5 for Dummies	135.00
• Complete 1-2-3 for DOS (Rel. 4) for Dummies	135.00

Databases

• FoxPro 2.6 for Windows for Dummies	135.00
• dBASE 5 for DOS for Dummies	135.00
• dBASE 5 for Windows for Dummies	135.00

Word Processing

• WordPerfect 6 for Dummies	135.00
• Word 6 for Windows for Dummies	135.00
• AmiPro for Dummies	135.00
• WordPerfect 6 for Windows for Dummies	135.00

Windows 95 titles

• Windows 95 for Dummies	150.00
• Windows 95 Programming for Dummies	150.00
• Windows 95 Uncut (with CD-ROM)	450.00
• Windows 95 Uncut (without CD-ROM)	295.00
• Windows 95 Handbook	195.00
• Windows 95 Secrets (with CD-ROM)	450.00
• Windows 95 Secrets (without CD-ROM)	295.00
• Excel for Windows 95 Bible	325.00
• Word for Windows 95 Bible	325.00
• Foundations of Visual C++ Prog. (with disk)	325.00
• Foundations of Delphi Prog. (with disk)	345.00
• Foundations of Visual Basic Prog. (with disk)	325.00
• Word for Windows 95 for Dummies	150.00
• Excel for Windows 95 for Dummies	150.00

Internet/Communications/Networking

• Netware for Dummies (2nd Edn.)	135.00
• Networking for Dummies	110.00
• The Internet for Dummies (2nd Edn.)	150.00
• Modems for Dummies (2nd Edn.)	150.00
• TCP / IP for Dummies	175.00
• HTML for Dummies (with disk)	225.00
• Client/Server Computing for Dummies	150.00

General

• Sex for Dummies	99.00
• Selling for Dummies	110.00
• Macs for Dummies	95.00
• PC's for Dummies	88.00
• Upgrading & Fixing PCs for Dummies (2nd Ed.)	135.00
• Illustrated Computer Dictionary for Dummies	68.00
• Multimedia & CD ROMs for Dummies (2nd Ed.)	135.00
• MS Office 4/4.2 for Windows for Dummies	135.00
• Memory Management for Dummies	60.00
• Time Management for Dummies	135.00
• Smart Suite 3 for Dummies	135.00
• cc:Mail for Windows for Dummies	60.00

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Ph: 3268292-93 • Fax: 91-3280567

Branches: • 22/2 Mission Road, Bangalore-27 Ph:2234025 Fax: 2240209
• 23-25 Zaoba Wadi, (Opp. VIP Showroom), Thakurdwar, Bombay-2 • Ph: 2010941 Fax: 2053387
• Khemka House, Ashok Rajpath, Patna-4 Ph: 653644

013/PCQST/SK

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

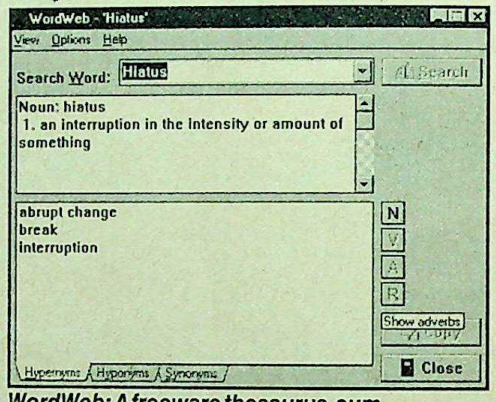
cica Shareware For Windows

Over 3,000 Windows utilities from the famous Walnut Creek series

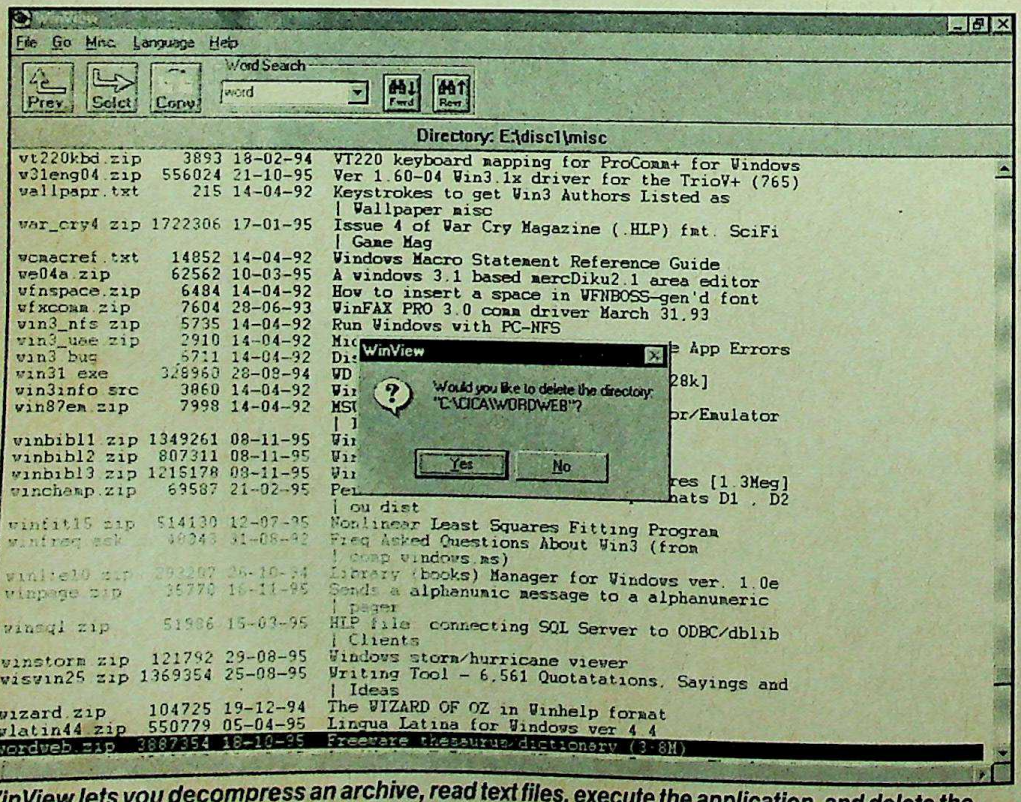
Do you use DRDOS or NC to view directories? Or use CALC to do figures and PSP to view images? Are you marooned if given a PC without utilities? You have to check out this cica collection. This twin-CD-ROM pack contains more than 3,000 of these addictive little applets that make everyday computing so much simpler.

You can browse the CD-ROMs using the two Walnut Creek file viewers. There's WinView 2.10 for Windows that sports a simple, uncluttered interface. Plus there's View for DOS lovers who've yet to switch.

WinView displays the CD-ROM's contents with brief descriptions of each file—you can choose from French, German, Italian, Spanish or English. The discs carry zipped utilities arranged by subject in sub-directories. To access an applet, double-click on the



WordWeb: A freeware thesaurus-cum-dictionary for Windows 3.1 or above



WinView lets you decompress an archive, read text files, execute the application, and delete the sub-directory in which you'd inflated your archive

THE SPECS

PRODUCT: cica Shareware for Windows, March 1996

TYPE: 2 CD-ROM set with 3,062 programs for MS Windows

REQUIRES: 386 or higher, Windows 3.x or above, CD-ROM drive

FEATURES: Built-in multilingual support for Windows 3.x and Windows95, ready with file indexes for popular software including Wildcat and Maxis. Includes disk, mouse and keyboard drivers, programming tools, screen savers, diagnostics, productivity enhancers, add-ons for Excel, Access, PageMaker etc., sound and video drivers, product demos, graphics, bitmaps, icons and fonts.

PRICE: Rs 1,125

SUMMARY: cica packs popular Windows shareware in one place. File names are formatted for popular BBS software—hence invaluable to sysops.

MFR: Walnut Creek CD-ROM, Suite 1547 Palos Verdes Mall, California, USA

VENDOR: Microware Computer Services, Paras, Near Dr Baliga's Nursing Home, Road, Goregaon (W), Bombay 400 022, 22-8727446, 8729725 Fax: 22-8727...

Reader Query Service #E045

and it is promptly uncompressed to the directory of your choice. WinView then displays the directory's contents. From here, you can view text files, run an executable file or copy a file to floppy drives. To undo a command, just press the Esc key or click the Prev button on the toolbar. When you exit the application, WinView even lets you delete the sub-directory in which you inflated the archive—very helpful when you're just browsing. There's also a Word Search which scans file descriptions when you want a specific application but can't remember its location.

Disk 1 is marked General Applications and contains 1,300 MB of files (compressed). You'll find images, ... TrueType fonts, games and ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NOVELL

Novell networking solutions

The Past, Present, and Future of Network Computing.

Binary Semantics is a one-stop source for software products, catering to the needs of end users, developers and programmers.

Through alliances with leading software companies, Binary Semantics brings to the Indian market, packages that are best sellers, and also winners of several international awards. PC Quest awards have confirmed the growing popularity of these packages in India. Products like Corel VENTURA in DTP, CorelDRAW in Graphics, Borland C++ in Development Tools, Quattro Pro in Spreadsheets and dBASE in Database, have won the PC Quest Annual User Survey Awards, 1994.

If your looking for a perfect network solution that's simple to install, operate and support. And above all, reliable chose NetWare, the only PC based network operating system that's in its eighth generation.

However, ease of use, reliability and the industry's tightest security are not the only factors that make NetWare the clear choice. NetWare is the only product that allows you to protect any E-mail package and network from another vendor. Fact is, NetWare is compatible with more applications, computing environments and hardware than any other network operating system. The end result is a competitive advantage.

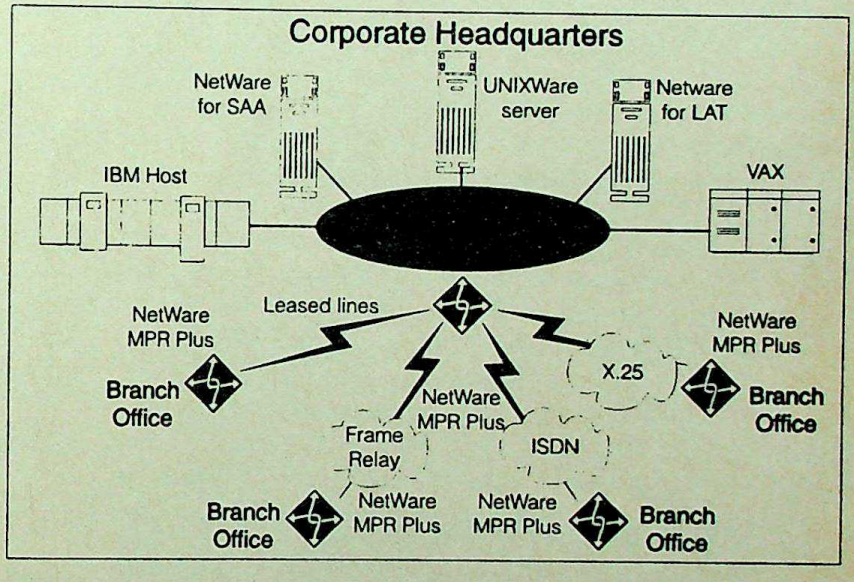
OPERATING SYSTEMS AND COMMUNICATION

Novell server operating systems provide high performance network computing solutions to a variety of business needs. Novell also provides a wide variety of communication products offering connectivity.

NetWare. Available as NetWare 4.XX for business-wide net works, NetWare 3.12 for sophisticated, enterprise-wide network computing solution in a multivendor environment, NetWare 2.2 for resource-sharing and workgroup productivity and Netware SFT III for highest level fault tolerance.

UnixWare. Integrates USL's UNIX System V Release 4.4(SVR 4.2) with client support for Novell's NetWare. It also supports the improved TCP/IP network protocol and a choice of GUI; OPEN LOOK or the OSF / Motif. The family of UnixWare products includes UnixWare Personal Edition; a powerful single user product, UnixWare Software Development Kit (SDK); providing a complete set of development tools.

LAN WorkPlace for DOS. Provides DOS and MS Windows users with direct access to a broad range of dissimilar computing resources using the industry-standard TCP/IP suite. It is an easy-to-use product and is the first TCP/IP solution to take full advantage of the MS Windows Graphical User Interface. Comes bundled with NFS



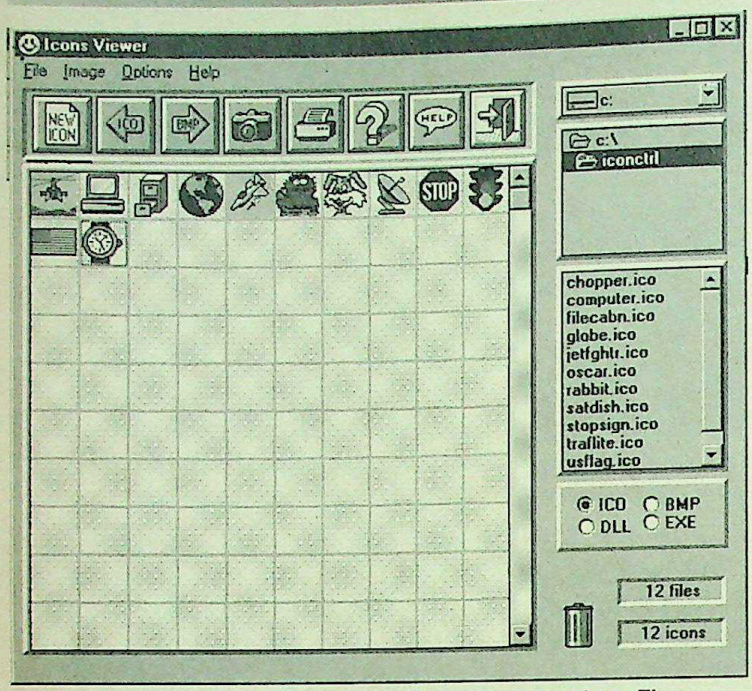
BINO SYSTEMS is the Country Distributor of Borland products. They are the National Reseller for Borland products.
For attractive offers and bundles of a vast range of products contact:
We have a free colourful Software Finder covering thousands of products from round the world
Please write to:

BINARY SEMANTICS LIMITED

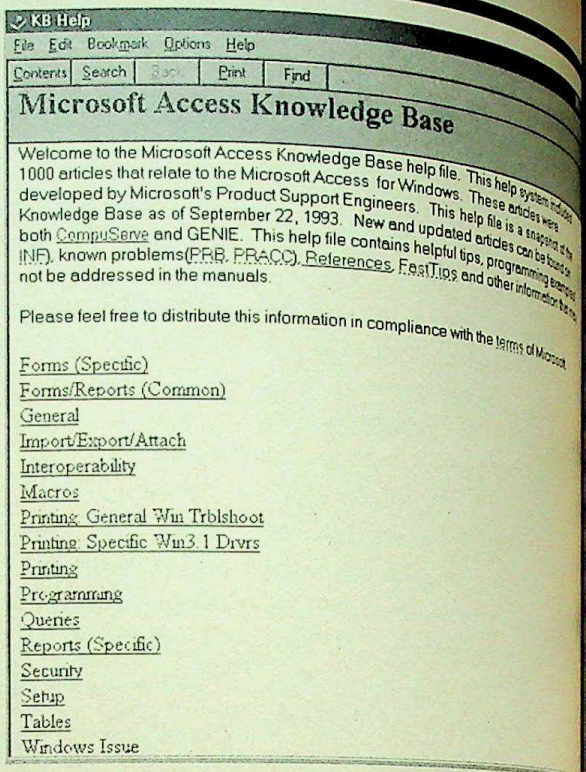
CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, ***TEL:*** 91-11-579 5615, 579 8069, 579 8078, 579 8084, ***FAX:*** 91-11-579 9406.
OVERSEAS OFFICE: PENNSYLVANIA STATE, P.O. BOX NO. 483, P.A. - 17001, ***U.S.A.*** ***TEL:*** 717-731-8468, ***FAX:*** 717-731-9857
BRANCHES: BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, ***TEL:*** 91-080-221 5785, 224 0222, 224 1222, 224 3283, ***FAX:*** 91-080-221
BOMBAY: 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, ***TEL:*** 91-022-621 0867, 628 6937, 670 5763,
FAX: 91-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, ***TEL:*** 91-033-473 3109, 473 2101, ***FAX:*** 91-033-473 0687; ***CHANDIGARH:*** 14, HORIZON
CHAMBERS, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, ***TEL:*** 91-0172-706722, ***FAX:*** 091-0172-706043; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY,
HYDERABAD - 500 026, ***TEL:*** 91-040-773 0399, ***FAX:*** 091-040-773 2811; ***PUNE:*** AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE -
411 030, ***TEL:*** 91-0212-44 8063, 43 2352, ***FAX:*** 91-0212-47 7829; ***MADRAS:*** 675, ANNA SALAI, 1000 LIGHTS, MADRAS - 600 006, ***TEL:*** 91-044-852 4438. ***FAX:*** 91-044-852 4112

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Icons Control lets you capture a part of the screen as an icon. The batch mode speeds up multiple conversions

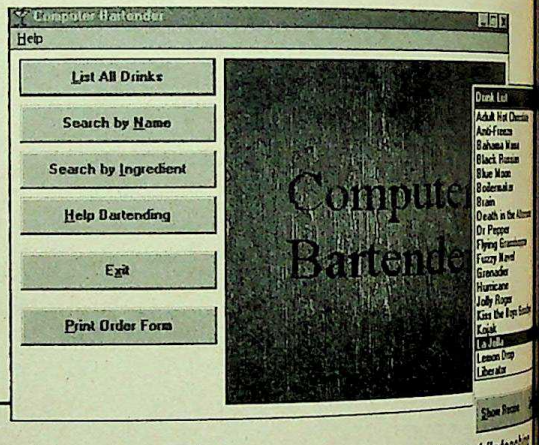


The Access knowledge base has over 1,000 articles with hot tips, programming examples, known problems, tips and references.

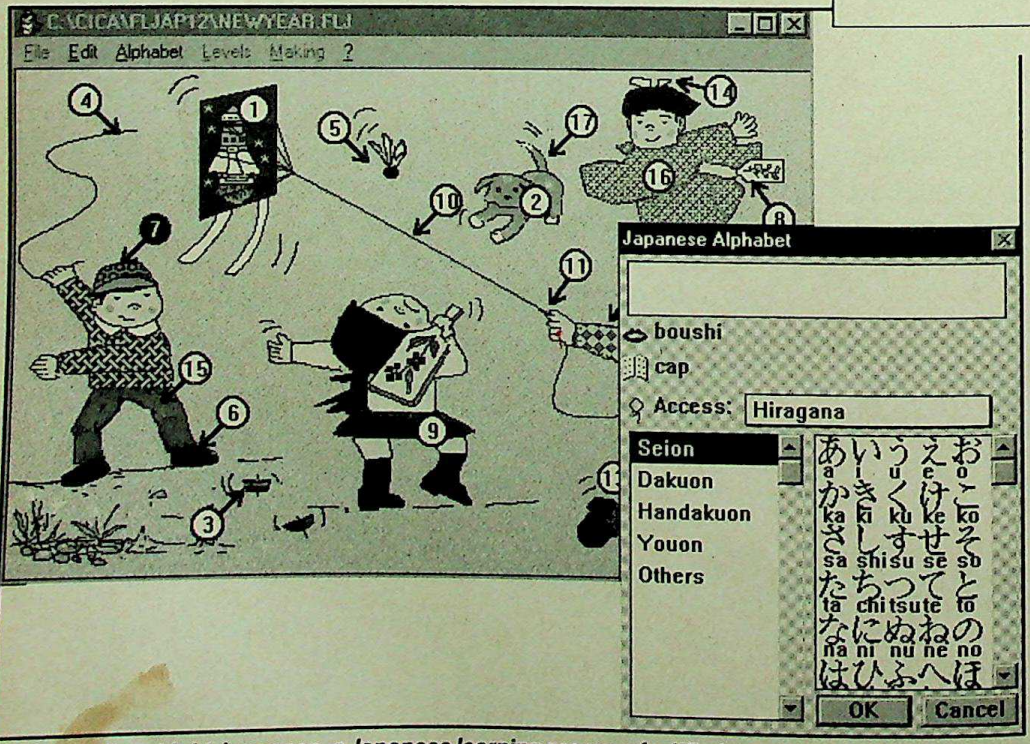
Disk 2 contains Technical Apps and packs printer and video drivers, patches and upgrades, Borland C++ programs, Visual Basic library files, Winsock apps, Word for Windows utilities and much more.

The miscellaneous section is a cornucopia of applets. These include A Private Investigators' program, a utility for runners, a self-help book "How the Mind Works", and a Nutrisoft dietician program. There's also a Pentium FPU (Floating Point Unit) bug test applet. Particularly interesting is WordWeb, a freeware thesaurus-cum-dictionary for Windows 3.1 and above. Besides finding synonyms, it also culls out sets of related words including antonyms, hypernyms, hyponyms meronyms, holonyms, etc.

Disc 2 devotes a whole sub-directory to icons. You'll find icon extractors, as well as



Bartender displays recipes while teaching bartending. Or you can search for drinks by name or ingredients and print out the recipes



A demo of Free Light Japanese, a Japanese learning program for Windows. It teaches Kanji ideographs, vocabulary and pronunciation through paintings and audio clips

icon files for the Bible, nine p... and world flags. The commercial ... sion of the Icons Control editor ... lets you convert .ICO files into ... format.

The sub-section on MS Access ... Windows contains a huge knowledge ... base developed by Microsoft's Product ... Support Engineers.

The base contains over ... articles complete with hot tips ... gramming examples, known problems ... tips and references.

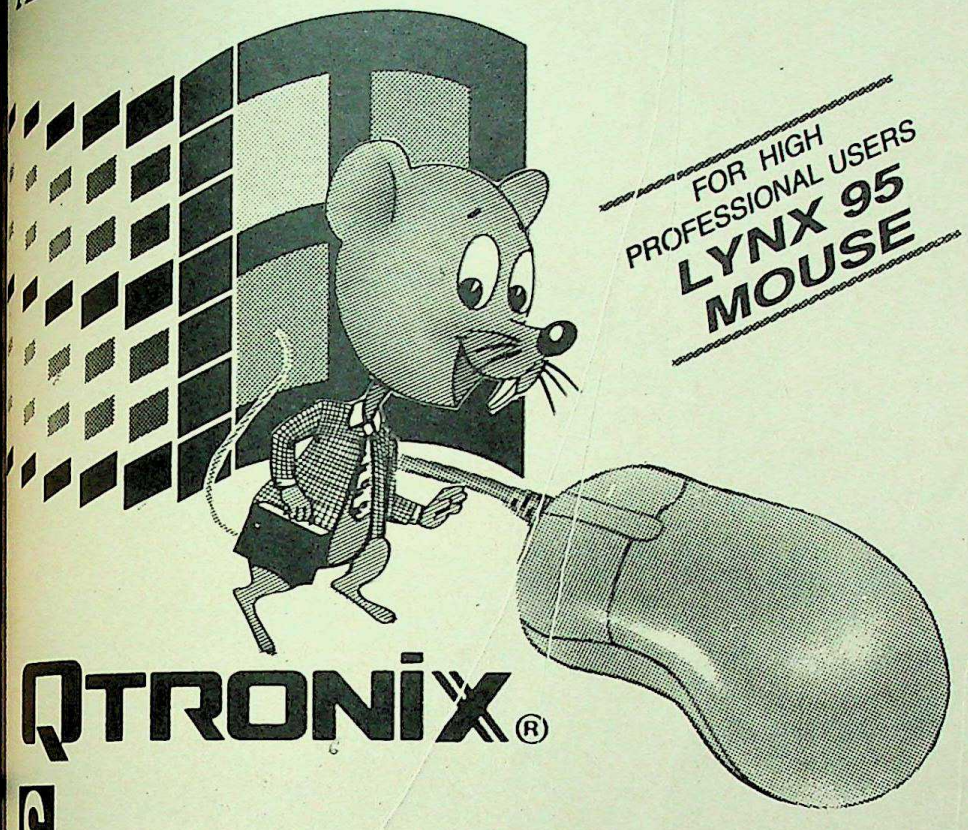
The cica CD-ROM set is a ... shareware collection with ... descriptions, and a simple but ... viewer.

Asawari Kelkar

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

A NEW APPROACH FOR PROFESSIONALS!



QTRONIX®

SPECIAL FEATURES:

•Mouse Pad
A free full size picture mouse pad is included for smooth and convenient tracking on any flat surface.

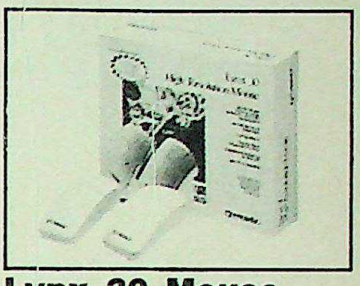
•Variable Resolution
With simple controls you can slow down the speed to : Delicately locate an exact pixel for precision use or speed up. To travel the length of the screen in a flash

•Accuracy
Advanced opto-mechanical technology creates highly accurate mouse tracking.

•Ergonomic Design
Ergonomic Design shape for High Professional for smooth & comfortable operation.

•Dynamic Accelerator
You may choose from 9 built-in accelerators that will vary the speed dependent on the speed that you move the mouse.

•Micro-Switches
Very reliable micro - switches are used that offer tactile feeling and audible click sound.

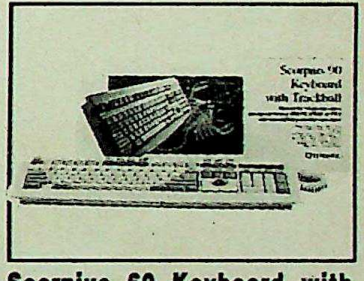


Lynx 30 Mouse

Original white mouse; true 400 dpi; 20 to 6400 dpi variable resolution; standard & deluxe packages.

Orion 90 Joystick

Analog joystick design; 4 fire buttons; precision axis control; sturdy suction cups; attaches to any game port.



Scorpius 60 Keyboard with Trackball

Perfect for windows users; new IBM layout standard with mini trackball; 101/102 key compatible for IBM AT & PS/2; rubber mechanical key switches; variable resolution upto 6400 dpi; Pop-up Menus.

Sagitta Colour LE Scanner

24 bit; 16.8 million colours; 800 dpi with interpolation; TWAIN driver, Proimage Plus for Windows; JPEG file compression; OCR & Business Card Reader software for windows

Sole Distributor for India.

PUSHPAM

COMPUTERS & SOFTWARES

635 A-B New Gajara Society, Bibvewadi, Pune 411 037.
Maharashtra (India). Tel.: 415162, 411279, 410280 Fax: 416455

Authorised Dealers: Bombay : DATA TECH CORPORATION, Ph.: 3863252, LALWANI ELECTRONICS, Ph. : 3865816, ORTEK COMPUTERS, Ph.: 2081924, SAM-VIK MARKETING, Ph.: 3853876, **Nagpur :** BUSINESS ALGORITHMS, Ph.: 533703, **Hyderabad :** COMPUTER VALLEY, Ph.: 814825, **Delhi :** SKOPE, Ph.: 6421039, **Goa :** DOC-TOC COMPUTERS, Ph.: 720486, **Raipur :** UNIVERSAL ENTERPRISES, Ph. : 27518, **Pune : S.P.SALES**, Ph. : 640684, **Ahmedabad :** SUMISHA COMPUTERS, Ph. : 6568850, VATSAL ENTERPRISES, Ph.: 6420332, **Nasik :** A.R.TRADERS, Ph.: 2305340, **Rajkot :** RAJESH ENTERPRISES, Ph. : 43415, **Madras :** PRIME SOURCE, Ph.: 8282239, **Bhopal :** FLO-ON ASSOCIATES, Ph. : 591122, **Bangalore :** INTERFACE CONNECTRONICS, Ph.: 2292709, SCAN MARKETING SYS, Ph.: 2225140, **Coimbatore :** KRISAN, Ph.: 210747, **Surat :** MASTER MIND COMPUTERISTS, Ph.: 684556, **Mysore :** SIMHA ASSOCIATES, Ph.: 510805, **Jodhpur :** POLARIS COMPUTERS, Ph.:425762, **Kolhapur :** ACE MARKETING, Ph.: 638281, **Lucknow :** SURAJ COMPUTERS, Ph. : 383875, **Ahmednagar :** PRONET SYSTEM, Ph.: 27335, **Baroda :** HIGH TECH INNOVATION, Ph. : 336608, NETWORK SYSTEMS, Ph.: 334581, **Jalgoan :** CRYSTAL ENTERPRISES, Ph. : 29562.

DEALERS & OEM'S ENQUIRIES ARE SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Simtel For MSDOS

Interesting DOS shareware from the Net

If you're looking for DOS-based applications, you must check out Simtel from Walnut Creek. This two CD-ROM set contains some 10,000 DOS software collected from all over the Internet.

View, a DOS-based file browser-cum-uncompressor, helps you catalog the CD-ROM and also install your selections on to your hard disk. The applications include animation programs, BBS packages, communication software and utilities, and code for frequently required routines.

Here's a quick look at some of the shareware available.

The **Gold Phone Book/Dialer V6** helps you track addresses and phone numbers, with a phone dialer. It sports a GUI front end and is mouse-compatible.

For those interested in artificial intelligence, **Mind Star Interactor V2.01** is a conversation and consulting program. You can also print out the consultation for future use.

Learning The Internet is a tutorial which introduces you to the Net. Its modules include Getting A Connection, Modems, Internet Addressing, Logging In, Passwords, Telnet, FTP, Fin-

THE SPECS

PRODUCT: Simtel for MSDOS (1995)

TYPE: Twin CD-ROM set with more than DOS shareware

REQUIRES: PC with CD-ROM drive

FEATURES: 10,000 DOS shareware piled from the Internet

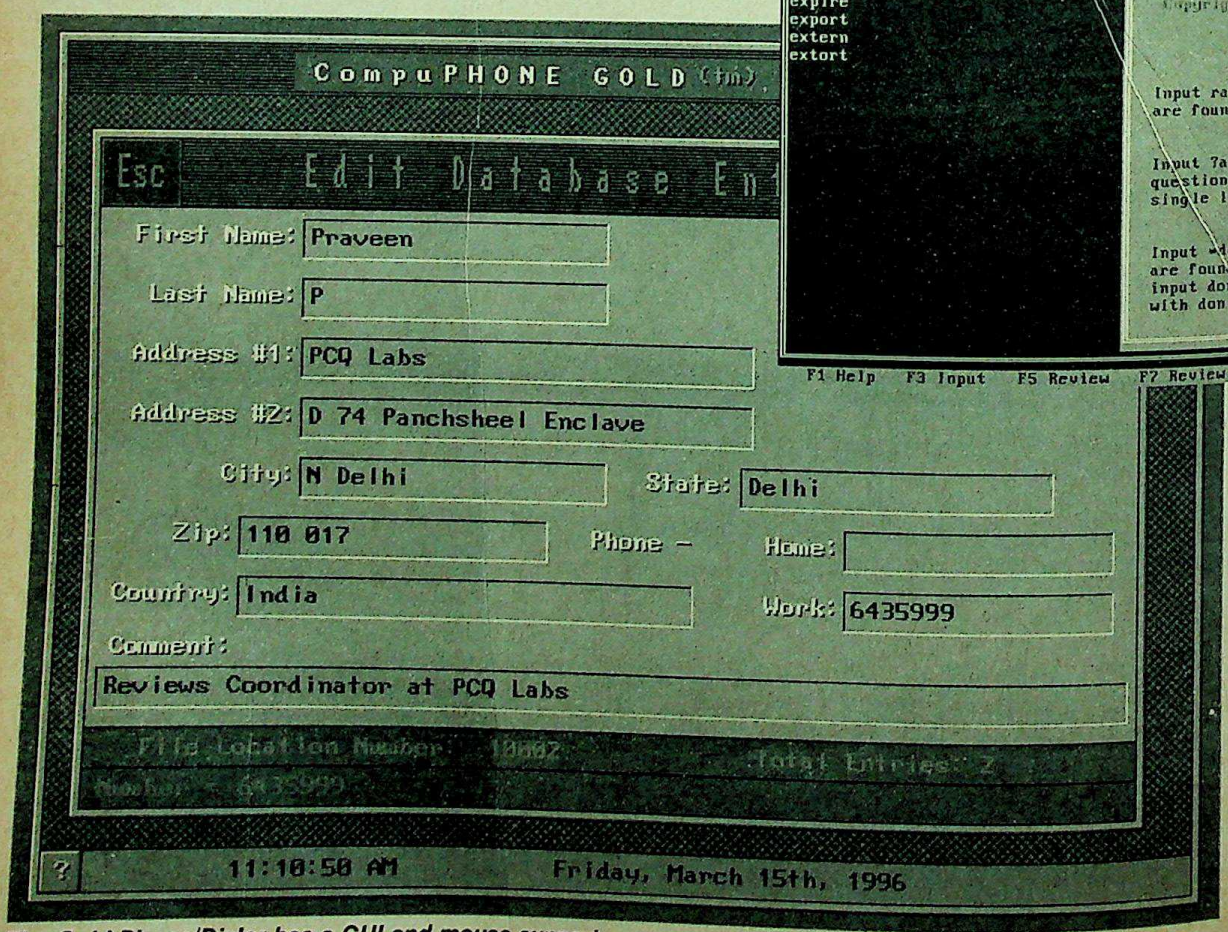
PRICE: Rs 1,650

SUMMARY: These two CD-ROMs together contain over 10,000 DOS programs and utilities including programs code and animation programs.

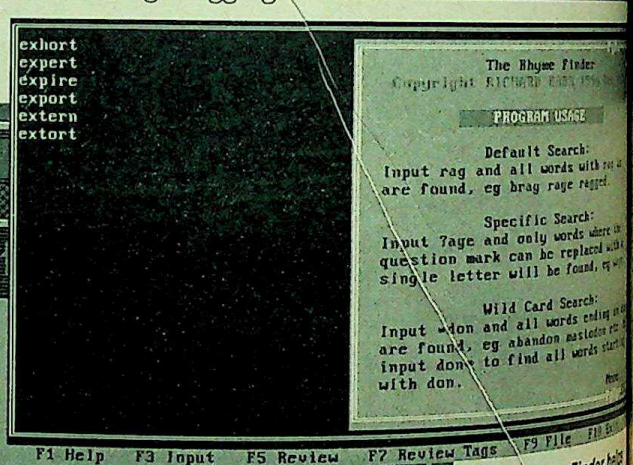
DEVELOPER: Walnut Creek, Suite 1547 Palos Verdes Mall CA-9

VENDOR: Microware Computer Services Paras, Near Dr.Baliga Nursing S.V.Rd, Goregaon (W), Bombay Tel: 22-8727446, 8729725 Fax 22-8

Reader Query Service #E0427



The Gold Phone/Dialer has a GUI and mouse support



The Rhyme Finder helps you match similar sounding words

ger, Gopher, White Services, World Wide Unix Mail, Pine E Mailing Lists, File U loading and Internet sources.

The **Rhyme Fi** finds words that with a selected word.

Overall, an interes collection.

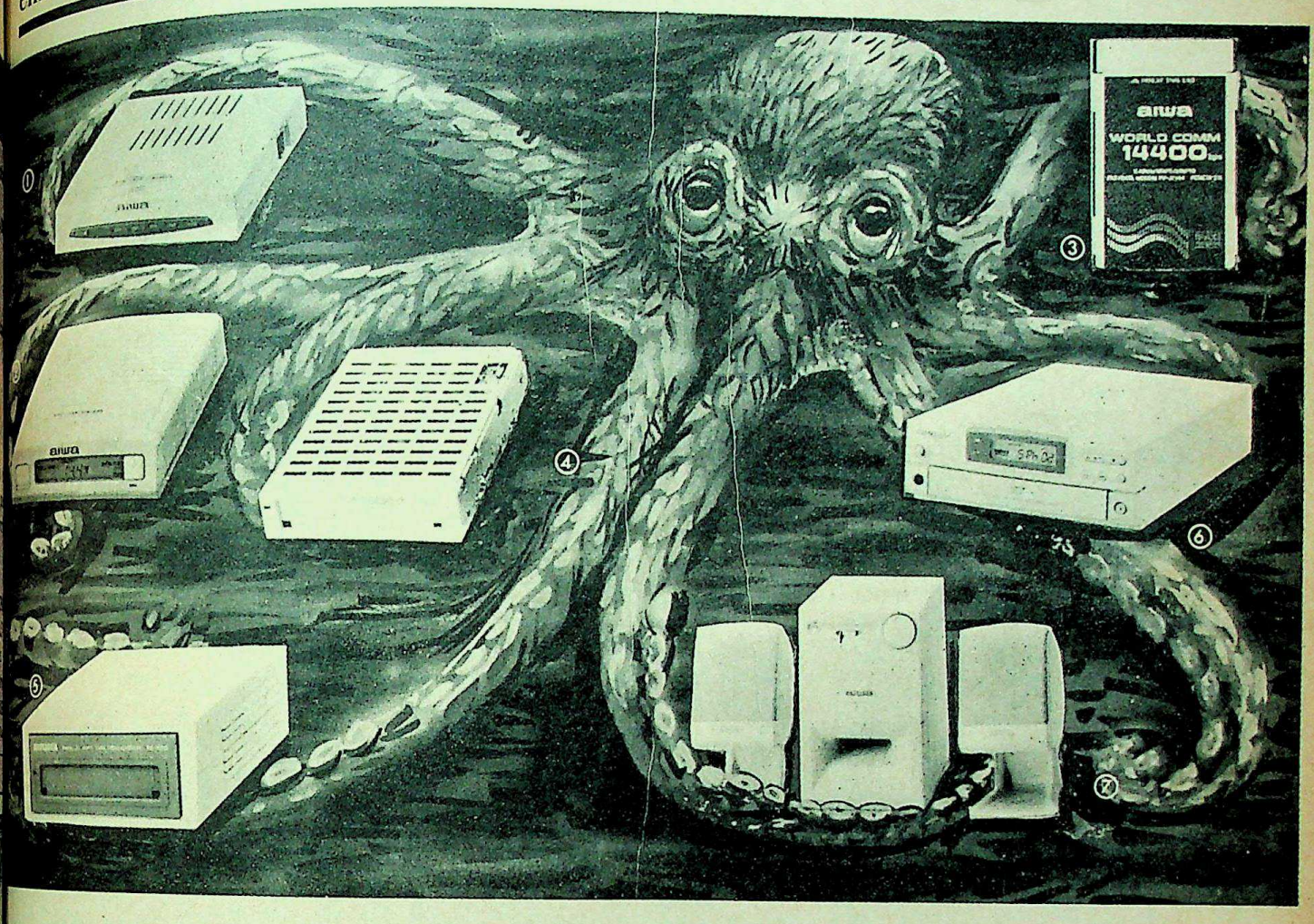
Praveen @ PCQ

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Japanese Octopus thats embracing the entire globe in its glory.

aiwa WORLD COMM



far, wide, sure. The reach of Aiwa's arms. Shaped as tools of communication that have shrunk the globe. But have widened smile the world over. Spreading the glory of performance & achievement wherever they go. So get Aiwa. And discover a new grip on power.

Get more modem at high speed

1) AIWA. PV BF 2880
28-8 Kbps fax modem LEDS for status check.

Go for the unique-featured modem

2) AIWA PV – AF 144 AH
14.4 Kbps Fax modem with backhit amber colour LCD display, built in power supply, RF filter protection

3) AIWA PV – JF 144
14.4 Kbps PCMCIA Fax modem for notebook computers and laptops.

Protect your data

4) AIWA TD – 811 B
Internal Tape Drive IDE
Storage Capacity 250 MB
(with data compression)

5) AIWA TD – P250
External Tape Drive Paralled port storage capacity 250 MB
(with data compression)

6) (A) **Pick the advanced CD ROM**
with double speed and external drive.

(B) AIWA A CD – 300
Large illuminated LCD Operation Panel
Audio CD delicated Operation Button

Take your PC sound to the highest performance

7) AIWA multimedia power speakers
TS – CD 20, SC – C 77, SC – C 55, SC – C 47, SC C 27.
Connected to CD ROM and HP – CW501 wireless headphone

The latest range of Low Cost High Performance Series.

AIWA PV - BFV 1440 Modems

C-TEL
THE SOLUTIONS PEOPLE

C-Tel Infotech Ltd.
H.O. : 38, Kamer Building, Cawasji Patel Street, Fort, Mumbai - 400 001.
Tel: 202 2386, 202 2066. Fax: 202 1362.

Branches
187- A, 3rd Floor, Sai Sadan, Sant Nagar, Main Road, East of Kailash, New Delhi - 110 065.
Tel: 622 2652. Fax: 641 6116, 641 0092.

304, Kaveri Complex, 96/104, Nungambakkam High Road, Madras - 600 034.
Tel: 823 2687. Fax: 823 2687.

236, 7th Cross Domlur Layout, Bangalore - 560 071.
Tel: 554 2853, 557 3640 Fax: 554 2853.

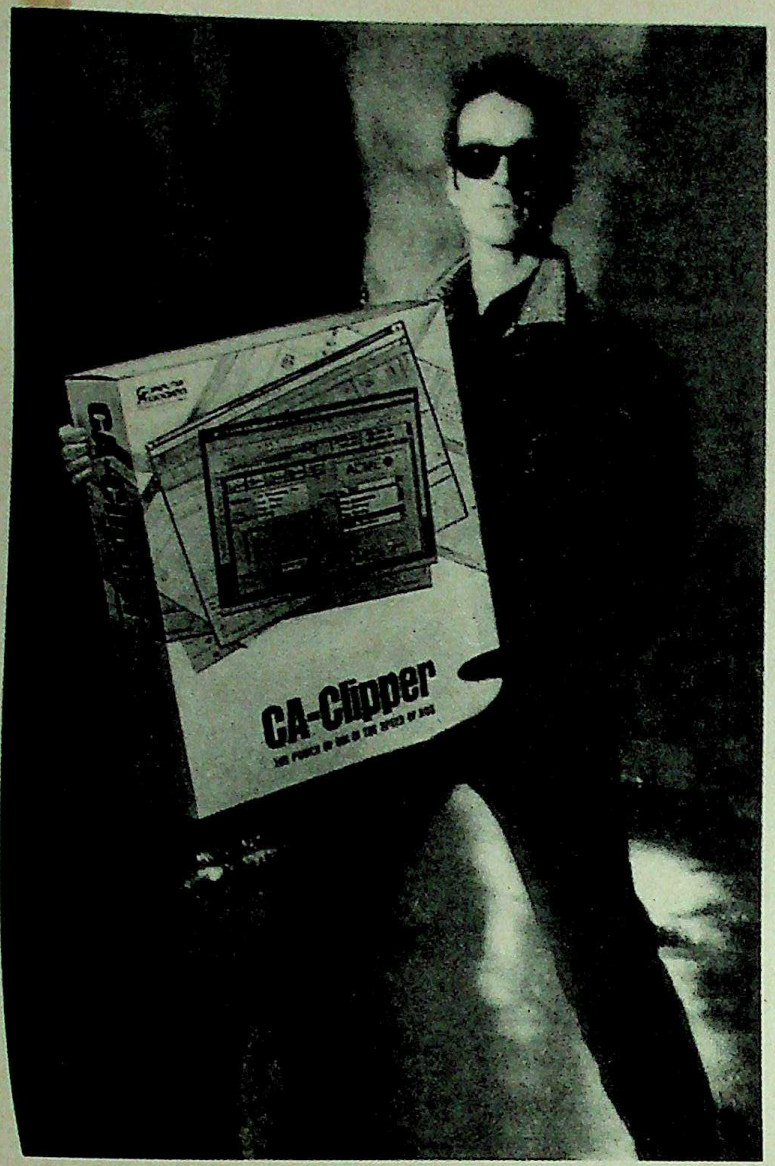
Krishna House, 57/1 - B, Kanchan Lane, Cabin No. 2, Off Law College Rd., Pune - 411 004.
Tel: 365 679, 366 325. Fax: 333 457.

608, Chenoy Trade Centre, Park Lane, Secunderabad - 500 003.
Tel: 819 999, 811 177. Fax: 814 021.

DEALERSHIP ENQUIRIES SOLICITED.

Campaign

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar



Yo, Clipper Fans. Here it is. Just Like We Promised. 5.3 With The Works. New RDDs. 64MB Memory. Better Doc. Better Support.

It's Faster, Smarter And Stronger Than Ever. So Grab It And Hang On. Because Suddenly The Future Is Looking Very Bright.

After being acquired by the world's leading application development company, Clipper is once again the standard for Xbase development. And with almost $2billion in sales, CA has the resources to keep Clipper – and you – on top. Today and tomorrow. Even while other Xbase standards stumble, falter and fade away.

It doesn't matter whether you're a Clipper, dBASE or FoxBASE user, if you're into the future of Xbase, this is one offer you shouldn't refuse. See your dealer or contact us for a special offer of **Rs.19,950/-***

CA-Clipper® 5.3.

Infosys

INFOSYS TECHNOLOGIES LTD.
(Pavitra Complex) No.1, 2nd Cross, 27th Main, BTM Layout 1st Stage, Bangalore - 560 068, India

COMPUTER ASSOCIATES
Software superior by design.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

Wills World Cup CD-ROM

A low-priced, well-designed package for cricket fans

The Wills World Cup CD-ROM comes from Sunil Gavaskar's Professional Management Group and Tata Interactive Systems. This CD-ROM was received without manuals or documentation. Luckily, the cover gave us tips on installing and running it. Within minutes, the application was up and running. But even post-installation, there was no specific icon created.

The review copy did mention a help facility, but this didn't work. Calls to the distributor revealed that this had not been implemented in the pre-release version given to PCQ Labs for evaluation. However, the CD-ROMs sold are supposed to have this facility.

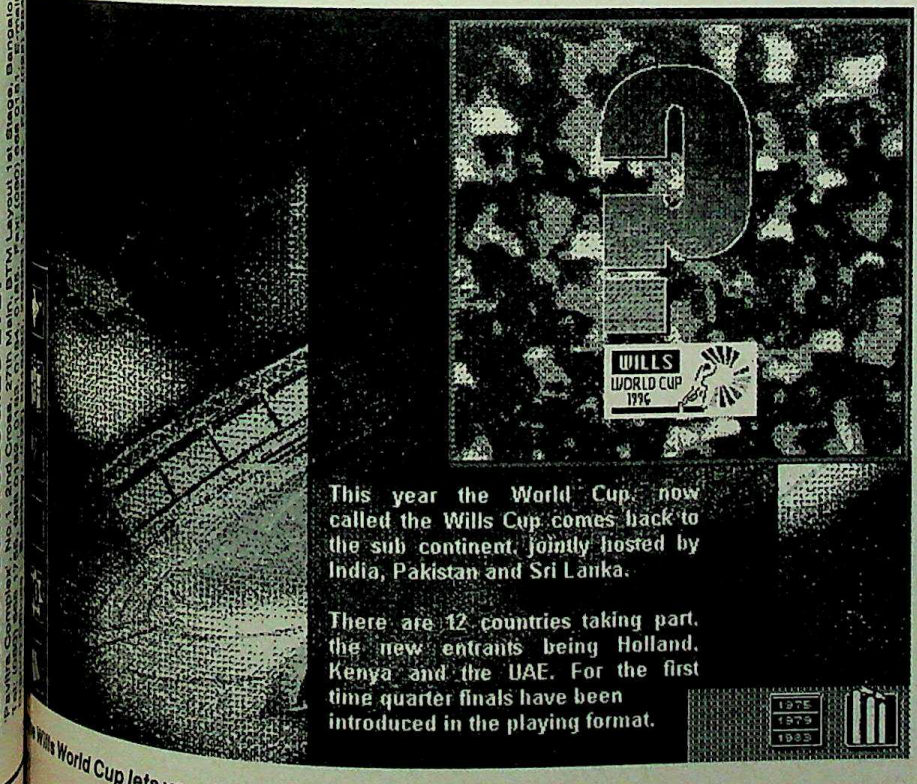
On loading, you first get a few words from the Little Master himself before proceeding to the Main Menu. This has four icons that get Help, answer a quiz, go to the previous screen (Sunil Gavaskar's introduction) or Quit. There are also six different vertical bars that provide access to information on the previous World Cup matches. There is also a bar for the 1996 Wills World Cup.

Clicking any of the past World Cups get Gavaskar's comments. These are essentially about the match, an analysis of the semi-finals and finals. and on a few special moments. You can also view the scoreboards, retrieve batting and bowling averages, and review some of the great moments. Clicking the 1996 World Cup, doesn't give the same information. Instead, all you can view are the match venue, and team details such as names, statistics and photos.

You can also create your own 'Dream Eleven' team, enter their statistics and their scores as the Cup progresses. You can even compare your team with Gavaskar's selection. Surprisingly, help was present for this module and was quite concise. The other modules are Scoresheet, which allows you to enter match scores, a photo album of Gavaskar's favorite ten players and access to the NotePad.

Overall, this package provides good value to cricket fans, and more importantly is economically priced.

N Balaji at PCQ Labs



The Wills World Cup lets you view venues, teams and re-review previous Cups

THE SPECS

PRODUCT: Wills World Cup CD-ROM.
TYPE: Windows based Multimedia package on the Wills World Cup.
REQUIREMENTS: 486 or higher with Windows 3.1 or better, 4 MB RAM, 4 MB free disk space, SVGA display, CD-ROM drive and sound card with speakers.
DISTRIBUTION MEDIA: One CD-ROM.
DOCUMENTATION: None with review copy.

FEATURES: A comprehensive multimedia package for the cricket fan. Contains video clips and comments by Sunil Gavaskar, along with highlights of past World Cups and also details of the current Wills World Cup 1996.

PRICE: Rs 995 (all inclusive).

SUMMARY: Highly recommended for all cricket fans. Content value is excellent for the asking price.

MFR: Tata Interactive Systems and Professional Management Group.
DISTRIBUTED BY: HCL Frontline, A-10, 11, Sector III, NOIDA 201301 Tel: 011-8538953, 8532698 Fax: 011-8523791.

Reader Query Service #E0426

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

META Group : the world leader in Technology Assessment & Forecasting

presents
Two half day seminars by

NATASHA KROL, Vice President and Director of
Advanced Information Management Strategies
META Group

I.T. IN THE 90'S : TO BE OR NOT TO BE
&
INTERNET 1996

April 16	Taj Mahal, Delhi	0930-1230 & 1430 - 1730
April 17	Taj Westend, Bangalore	0930-1230 & 1430 - 1730
April 18	Taj Mahal, Mumbai	0930-1230 & 1430 - 1730

Participation : All senior professionals with responsibility to steer their corporation's Information Technology environment stand to benefit greatly from these seminars.

Rs. 4,500/- per session or Rs. 8,000/- for both sessions.

To register call Nitin Bhayana on (011) 692 0391 or Fax (011) 622 3405 / 621 4271 or write to :

META Group India
10, Park Avenue
Maharani Bagh
New Delhi 110 065

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Typing Instructor

Improve your typing skills with this interactive instructor

Multimedia Typing Instructor is a CD-ROM which can be used by new learners as well as those who want to upgrade their skills. Also included is a 30-day trial copy of Anytime, a Windows-based Organizer.

The Instructor installs smoothly. The setup also detects and tests any sound devices attached to your system. To start your lesson, double click the Typing Instructor icon. Up pops a screen that prompts you for your name, skill level (beginner or expert) and speed. You can also change earlier settings as you improve.

The main screen resembles an airport lounge. Clicking on various parts of the lounge takes you to lessons, tests, virtual adventures, solo practice and information.

At the basic level, lessons begin with you typing sequences like "asd-fghlkj" before moving to words and finally random sentences. After you've gained some proficiency, you can move to the expert level that lets you try out complex words. The package also has special lessons for people who want to increase their speed and accuracy.

The Test Kiosk offers several tests designed for different skill levels. The results are measured in terms of speed (average and peak) and accuracy. You can also view your progress as a graph.

The CD-ROM lightens up things with typing games to improve your speed. Practicing Solo section lets you practice typing in book excerpts, short stories and magazine articles of your choice. There's also context sensitive help with attached audio clips.

Some tips on the ergonomics of typing—such as correct posture—would have improved this package. The Instructor makes you type over the prompt text. A separate typing area would help increase a learner's speed and comfort level.

Praveen at PCQ Labs

THE SPECS

PRODUCT: Multimedia Typing Instructor
TYPE: A multimedia typing tutorial

REQUIRES: 386 or higher with 8 MB RAM, MS Windows 3.1 or higher, CD-ROM drive, sound card, mouse, 256 Color VGA or higher, speakers or headphones.

FEATURES: Solo Practice, Timed Tests, Graphical Progress Reports, Flotsam Fighter and Sea Adventure Virtual Games.

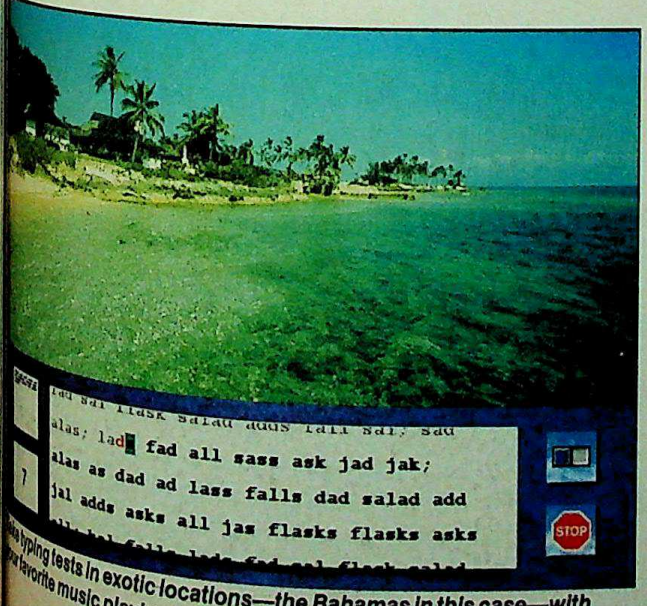
PRICE: Rs 1,438

SUMMARY: This typing tutorial has some good audio and video clips, and interesting tests and lessons.

DEVELOPER: Individual Software Inc, 5870 Stoneridge Drive, Pleasanton, CA 94588-9900.

AVAILABLE FROM: Innoserv Systems Pvt Ltd, X-29, Hauz Khas, New Delhi 110016. Tel: 11-6863058, 6968626 Fax: 11-6966911

RQS #E0420



Take typing tests in exotic locations—the Bahamas in this case—with your favorite music playing in the background

Play Sea Adventure as you improve your typing skills

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

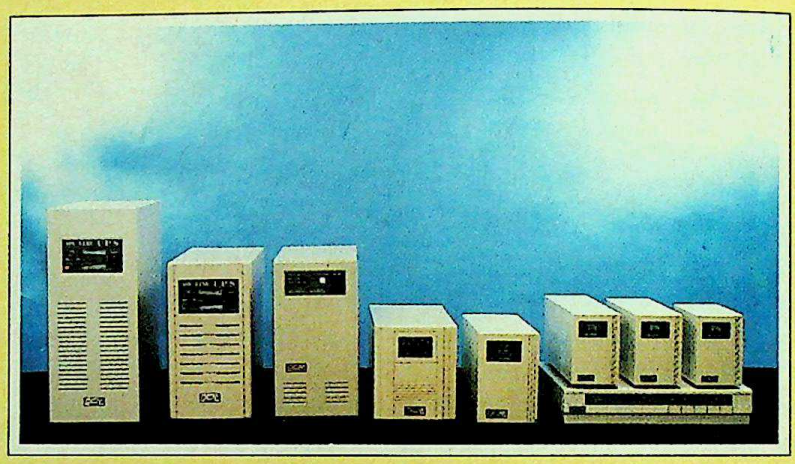
Digitized by Arya Samaj Foundation Chennai and eGangotri

SHIELD

of power protection during power failure, brownouts, fluctuations, spikes, sag etc.

POWERCOM

UPS + AVR



UPS + AVR Features : ■ 75% to 125% of Input voltage for best Lan/PC protection ■ Microprocessor Controlled ■ Built in MF - Batteries ■ Wide range Offline : 250VA to 1200VA, Online : 1KVA to 15KVA ■ 1 year comprehensive warranty ■ Compact yet powerful ■ Built in Novell Port

yes NetWare Tested and Approved

More than 4000 countrywide installations
All India Dealer Sales / Service Network

Now Available
UPS KING SERIES
425 VA

KUNHAR PERIPHERALS PVT. LTD.

A-23, Shri Ram Industrial Estate, 13, G.D. Ambekar Road,
Near Wadala Telephone Exchange, Wadala, Bombay - 31
Tel. : 4130442 / 4130646 Fax : 91-22-4130218

Factory : Gat No. 142/2/1, Dingraj Wadi, Koregaon Bhima,
Taluka Shirur, Pune. Tel. : (02137) 52519 Fax : (02137) 52520

Authorised Distributors

BOMBAY ★ Avion Electronics Tel. : 3858959 / 3882137 / 3880237 ★ Essens Power Conversion Tel. : 5564284 / 5572259 ★ Sycon Power protection Tel. : 5653230 / 5648169 **POONA** ★ MKM Tubes Tel. : 630695 / 630973 **INDORE** ★ Fino Marketing Tel. : 539[illegible] **NAVSARI** ★ K.K. Computers Tel. : 533467 **NAGPUR** ★ Viba Enterprise Tel. : 530490 **NASIK** ★ Technocrat's Systems Tel. : 579510 **NAVSARI** ★ Bugs Computers & Systems Tel. : 52654 **NEW DELHI** ★ Axlon System Tel. : 6414392 **BANGALORE** ★ Vak Computers Tel. : 229[illegible] **HYDERABAD** ★ Rook Technologies Tel. : 819773 **GOA** ★ Computer Shop Tel. : 223712 **SURAT** ★ Rohan Business Machines Tel. : 30001 / 426651 **BARODA** ★ Pearl Communica Tel. : 452558 **BHARUCH** ★ Pearl Communica Tel. : 36064.

WANTED DEALERS IN UNREPRESENTED AREAS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PerfectOffice 7.0 Beta 2

Corel's upgrade to the former Novell suite has apps that share code and are Internet-enabled

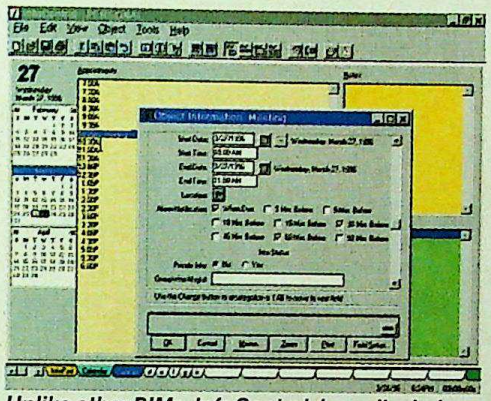
THE SPECS

PRODUCT: Corel PerfectOffice 7.0 Beta 2. Office suite for Windows 95 with WordPerfect, QuattroPro, Presentations, Envoy and InfoCentral.

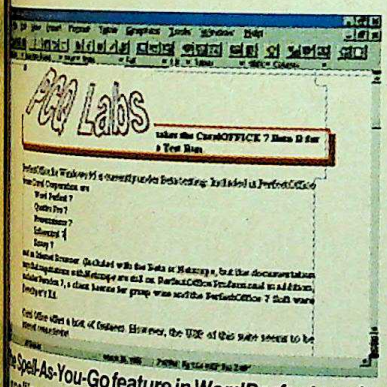
FEATURES: This beta has 32-bit versions of the applications. The focus is on interoperability using shared code and Internet access

VENDOR: Corel Corporation, Canada

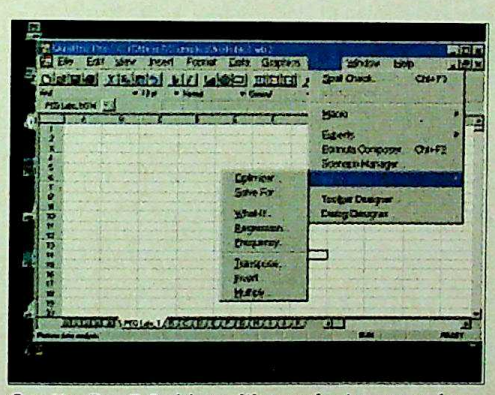
When Novell decided to sell the PerfectOffice suite to refocus on its core networking strengths, this product's fate appeared uncertain. The significant delay between Novell's announcement and its eventual deal with Corel didn't help matters either. While industry watchers were skeptical that PerfectOffice would recover its market share, the mood was upbeat at Corel, and their different outlook is evident as they prepare to launch PerfectOffice 7.



Unlike other PIMs, InfoCentral doesn't mimic paper desktop organizers



Spell-As-You-Go feature in WordPerfect marks spelling mistake as soon as you make one



QuattroPro 7.0 ships with new features such as templates and mapping

At PCQ Labs we previewed a Beta copy based on which we too concluded that industry watchers may have had their reasons. But Corel's reasons for confidence are clear as well.

PerfectOffice Standard contains Version 7 of WordPerfect, QuattroPro, Presentations, Envoy and InfoCentral. These are now 32-bit versions and the uniform numbers collectively reflect an attempt towards standardization, improved features and tighter product integration.

PerfectOffice 7 Professional contains three additional products, Paradox 7, Group Wise (Client license); and PerfectOffice 7 Software Developer's kit.

WordPerfect has a significant following worldwide. The new release retains the familiar look and feel of Version 6.1 and adds new features such as Spell-As-You-Go and better proofing and formatting to rival those of competing products. Quattro Pro and Presentation were strong members of PerfectOffice 3.0 and could hold their own against the competition. Presentation 7 remains a powerful presentation package that rivals the best in the market with added features including animated bullets and objects, and improved organization charts. InfoCentral 7 is a group-aware Personal Information Manager (PIM) that is radically different from standard PIMs. Envoy 7, similar to Adobe Acrobat, allows you to publish and distribute documents electronically.

The suite applications are integrated through a new-look Desktop Application Director toolbar. A large part of the code and add-ins are shared and the proofing tools, PerfectFit and PerfectExpert (a help expert that allows questions in plain English) are examples of shared code.

In Corel's vision, the Internet is more important than team computing. As a result, you can use WordPerfect to create Web sites or can load a document directly from the Internet for viewing and editing. Similarly, you can link cells in QuattroPro to any HTML file on the Internet. The data displayed in the cells can be automatically updated with dynamic Internet data.

This first look gave an impression of a product suite with a strong product lineup but with somewhat weaker integration, especially in comparison with rival suites. However, Corel is working on providing seamless Internet access and support from within all PerfectOffice apps.

VKT at PCQ Labs

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Lotus SmartSuite 4.0 for Windows

Enhancing productivity with an integrated application

Lotus SmartSuite 4.0 consists of six separate applications and accessing them is simplified by using SmartCentre, a launcher that remains visible as a tiny toolbar on your screen. Each application has an associated icon, and you add other applications too with their own icons. The native applications are **WordPro**: a team word processor; **1-2-3 Rel. 5**: a Windows version of the popular spreadsheet; **Approach**: a relational database; **Freelance Graphics**: a presentation graphics package; **Organizer**: a personal information manager and group-scheduler; and **ScreenCam**: an easy-to-use "show and tell" communication and teaching tool.

To use this office suite productively, you need a 486 or better PC and at least 112 MB of free disk space for a complete installation. The suite emphasizes the themes of productivity, team computing and integration.

Productivity

To maximize user productivity, Lotus has provided an interface that is easy to learn and is consistent across the Suite. Customizable SmartIcon bars provide direct access to product features and have associated balloon help. A feature common in all the modules is represented as the same icon. All the components have live status bars that display the current options and provide immediate access to them.

A tabbed notebook-like interface is now accepted as the optimum counter to limited screen real estate. Suite modules use this interface consistently for both dialogs as well as workspace display. In WordPro, tabs provide one-click access to divisions in long documents; in 1-2-3 to different worksheets and in Approach to forms. The user no longer needs several mouse clicks with the menu to navigate.

Approach, Freelance Graphics, WordPro and 1-2-3 SmartMaster templates combine the functionality of a style sheet with a wizard. They have professional quality formatting and 'Click Here' prompts making it easy for you to enter information. A right-click brings up a speed menu in all the applications.

In SmartSuite 4.0, WordPro supersedes AmiPro from SmartSuite 4.0, and stresses Team Computing. 1-2-3 Release 5.0 for Windows has been work-group enabled and Organizer 2.1 with its work-group scheduling features is the key to better productivity.

Integration

SmartSuite does not have a Visual Basic like programming language. Instead it has specialist products for each aspect of office automation for ease-of-use. Each application is simple to use, and SmartCenter provides easy access to all. You can transfer data from one product to another through clip-and-paste. By keeping the building blocks simple, both individually and collectively, Lotus achieves a powerful Suite that should win hearts rather than intimidate users.

Team Computing

With increasing office automation, personal computing is changing to group computing. Most organizations communicate through documents that are invariably prepared by teams work-groups, especially in compl organizations with flat hierarch Lotus is concentrating on making transition even smoother.

WordPro

Lotus appears to have worked h at beating Microsoft Word in the area that it appeared invincible--us lity. There are many new innovative original features that could becom standard with the newer generation word processors.

Document Viewing: In additio the traditional Draft and Layout v WordPro introduces PageWalker layout view with full page to revie overall look of your document. Fo rama for a four page view; DocSiz for a draft view for editing, multi- view for navigating and an outline and Zoomer with draft view for e a page view for navigating and a l view for zooming. Phew!

Improved Dialog Boxes: Besides

THE SPECS

PRODUCT: Lotus SmartSuite 4.0 for Windows includes WordPro, 1-2-3 Windows Rel. 5, Approach 3.0, Freelance 2.1, Organizer 2.1

FEATURES: SmartSuite 4.0 requires or higher with 8 MB RAM, mouse, 122 MB of free disk space. It has document views, improved dialog b template wizards and customizable

PRICE: Rs 15,000

SUMMARY: A powerful suite with s easy to use applications, enabled team computing. New is WordPro w improved help and intelligent proofing 2-3 features mapping and SmartTemplates. Approach is well integrated with 1-2-3 can also be used as a front-end to N Organizer has been workgroup enabled.

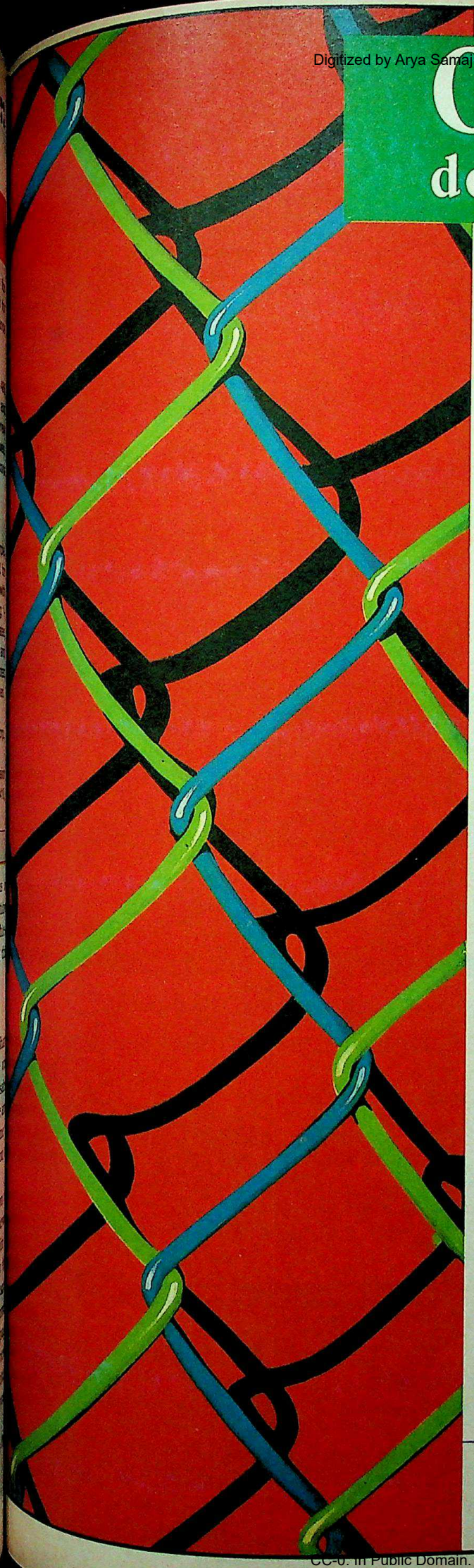
DEVELOPER: Lotus Development Corp. USA

VENDOR: Tulip Software, J-31 South Extension Part I, New Delhi 110049. Tel: 11-4620 4694591. Fax: 11-4610292

Reader Query Service No #E043

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



One good thing deserves another

The perfect synergy between convention and exhibition

Perfectly complementing a synchronised exhibition of IT, is a mind-broadening time-table packed with conferences & seminars. Ones that underline the meaning of the convention theme: India: The Emerging Information Technology Giant. The conventions that will boast of eminent speakers, revolve around themes designed to bring together user/service providers of the various pavillions on a common platform. CSI-96, the event with the twin advantage.

For the first time in India IT on display, the international way. An IT Exhibition that has focussed pavillions, such as a pavillon for Manufacturing solutions, another for Banking & Finance, one for Media, yet another for Communications. There is also a pavillion for Internet, one for Home PC and theSpectrum category.

With international participation & the presence of South Asian Corporations, CSI-96 is the Information Technology Show of 96.

That's not all. Being the largest user event, CSI-96 will attract a large number of qualified visitors from various industries, keen on serious interaction - the key to profitable deals & contacts, lucrative in the long run.

Located at the sprawling Palace grounds, in the Silicon Valley of India, Bangalore, from 30th Oct to 3rd Nov'96 - CSI-96 is where you ought to be.

Call Now for further details.

COMPUTER SOCIETY OF INDIA
ESTD 1965

CSI-96

The Power of Focus

For Stall Bookings & more details, contact :

Show Managers CYBEREXPO

BANGALORE TEL: 5511511/2861511, 5568238/2868238
FAX: 5562971/2862971 **DELHI** TEL: 6416315, 6476664 FAX: 6411692
HYDERABAD TEL: 848121 FAX: 816960 **MADRAS** TEL: 459498
FAX: 8252828 **CALCUTTA** TEL: 2471285, 406492, 406810
FAX: 408423 **MUMBAI** TEL: 6450050/51 FAX: 6403986

OR

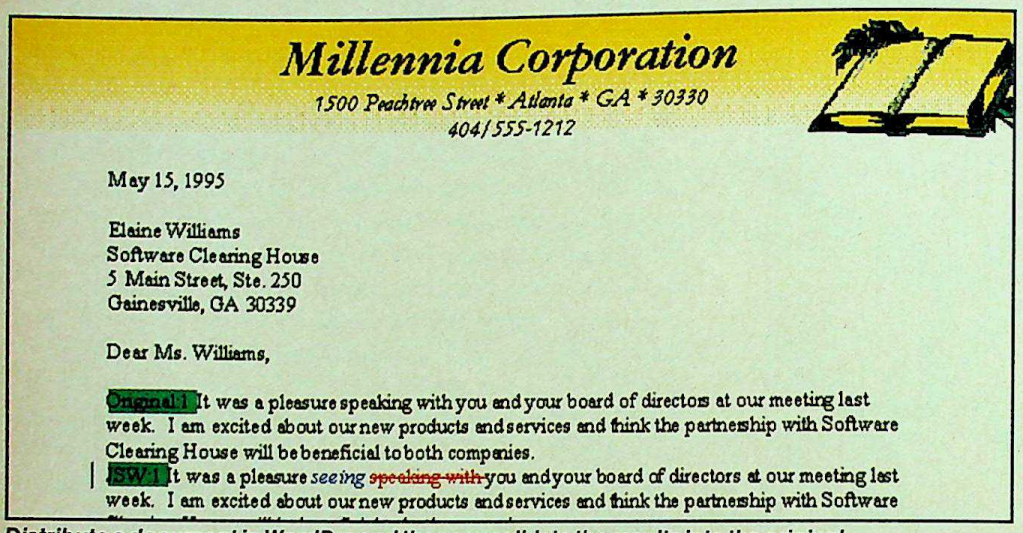
UNIVERSAL EXPOSITIONS
H-8, NOOTAN NAGAR, GURU NANAK ROAD,
BANDRA (W), MUMBAI-400 050.
TEL: 6410449, 6421405, 6451479 FAX: 6410465

MX/CS/4/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

traditional Icon bar and status bar buttons, Word Pro has introduced non-modal dialogs that you can leave open on your screens. While these do use up some screen real estate, this is balanced by the quick access to formatting and layout features. You could also hide



Distribute a document in WordPro and then consolidate the results into the original

these dialogs while editing the document and display them only while formatting. The boxes can display basic instructions as text so you no longer have to click on them for information.

Easy Help: Conventional application help has files with linked, hypertext jumps. This involves a lot of clicking before you finds the right topic, and can be frustrating when you follow the wrong links. Although the Microsoft help engine provides a keyword search facility, this has its limitations since you can use only one word to specify what you are looking for. Lotus' Ask The Expert lets you frame a question. With more than one word to work with, information retrieval is more accurate.

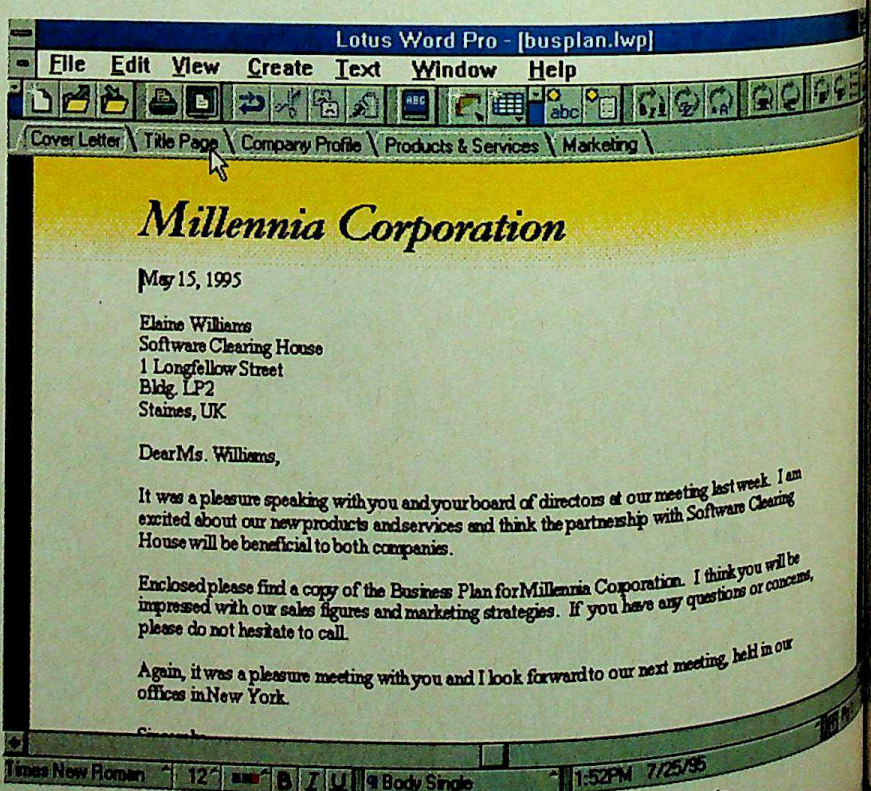
Team Review: This lets you distribute a document to the rest of your team. Once the document is ready, select the File Team Review menu option. This displays the Team Review assistant—a three page dialog that helps you assign reviewers to the document. It lets you use either the user name (as stored in WORDPRO.INI), or the E-mail ID, or even the operating system login. You can also specify each reviewer's editing rights, or you let the reviewer edit the current version or even a new version. The methods for distribution are saving it in a shared network directory or on a floppy disk, sending it individually or routing it from one reviewer to another through e-mail. Later, you can compare the original with the reviewed versions and consolidate them into a single document. As Team Leader, you can review each edit and choose to accept or discard it.

Intelligent Proofing: Some of the refreshing innovations in document proofing include Smart Correct to correct spellings that you tend to mis-type. Check Spelling under the Edit menu, instead of displaying a spell-check dialog, displays a bar that lets you see your document. The Spell Checker, rather than jumping from one unrecognized word to the other, highlights all such words in one go. During a check, you can insert typos into the Smart Correct list. Word Pro highlights a misspelled word as you type and corrects it if it is in the Smart Correct list. (We found this feature slowed Word Pro to unacceptable levels even on a standalone 486DX4 with 16 MB RAM. In addition, it leads to a distracting flashing on the Spell Check Bar. Other proofing features include Grammar Checking with grammatical options, rules for grammar, and readability statistics.

Long Document Support: The refreshing innovation has a Page Guide that lets you see exactly which page you are at as you drag the scroll indicator in your long document—something that beats even the Windows 95 scroll indicators. Divider tabs let you organize and navigate through divisions. You can even drag-and-drop a divider tab to rearrange divisions. There are also long document support features such as Table of Contents and Indexes.

Lotus 1-2-3 for Windows Rel. 5

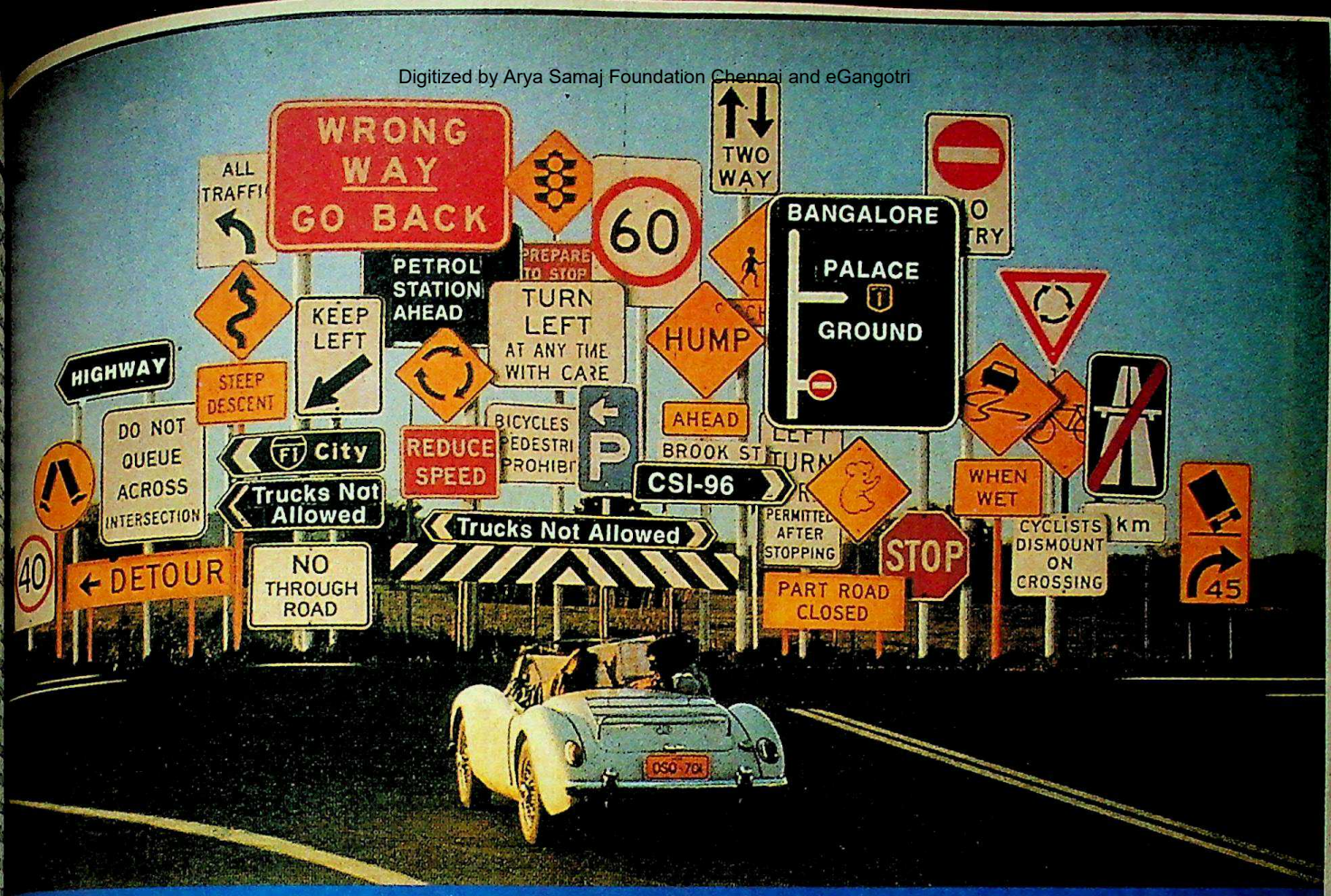
One of the oldest and popular spreadsheets, this version retains the simplicity of its DOS predecessors with the added advantage of the Windows graphical interface. It's updated



Division tabs let you move quickly between divisions in long documents

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



IT tradeshows have always been so confusing,

Take the right turn with CSI-96.

For the first time in India IT on display, the international way. An IT Exhibition that has focussed pavillions, such as a pavillon for Manufacturing solutions, another for Banking & Finance, one for Media, yet another for Communications. There is also a pavillion for Internet, one for Home PC and the Spectrum category.

That's not all. Being the largest user event, CSI-96 will attract a large number of qualified visitors from various industries, keen on serious interaction - the key to profitable deals & contacts, lucrative in the long run.

Add to all this seminars & conferences in perfect synergy with the industry specific solutions approach, addressed by world renowned IT luminaries that enable you to get a glimpse into current trends & the vision of tomorrow and understand the role that India will play as an emerging IT giant.

With international participation & the presence of South Asian corporations,

CSI-96 is the IT Show of 1996.

Located at the sprawling Palace grounds, in the Silicon Valley of India, Bangalore, from 30th Oct to 3rd Nov'96 - CSI-96 is where you ought to be.

Call Now for further details.

COMPUTER SOCIETY OF INDIA
ESTD 1965
कर्मे भवन मुकौशलम्

CSI-96

The Power of Focus

For Stall Bookings & more details, contact : Show Managers CYBEREXPO

BANGALORE	DELHI	HYDERABAD	MADRAS	CALCUTTA	MUMBAI
4511511/2861511, 5423432/2868238, 5562571/2862971	TEL: 6416315, 6476664 FAX: 6411692	TEL: 848121 FAX: 816960	TEL: 459498 FAX: 8252828	TEL: 2471285, 406492, 406810 FAX: 408423	TEL: 6450050/51 FAX: 6403986

OR

UNIVERSAL EXPOSITIONS

H-8, NOOTAN NAGAR, GURU NANAK ROAD, BANDRA (W), MUMBAI-400 050. TEL: 6410449, 6421405, 6451479 FAX: 6410465

MX/CSI/1/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

face has contemporary spreadsheet functions such as Macros and Charting. Other new features include mapping, data analysis, and templates.

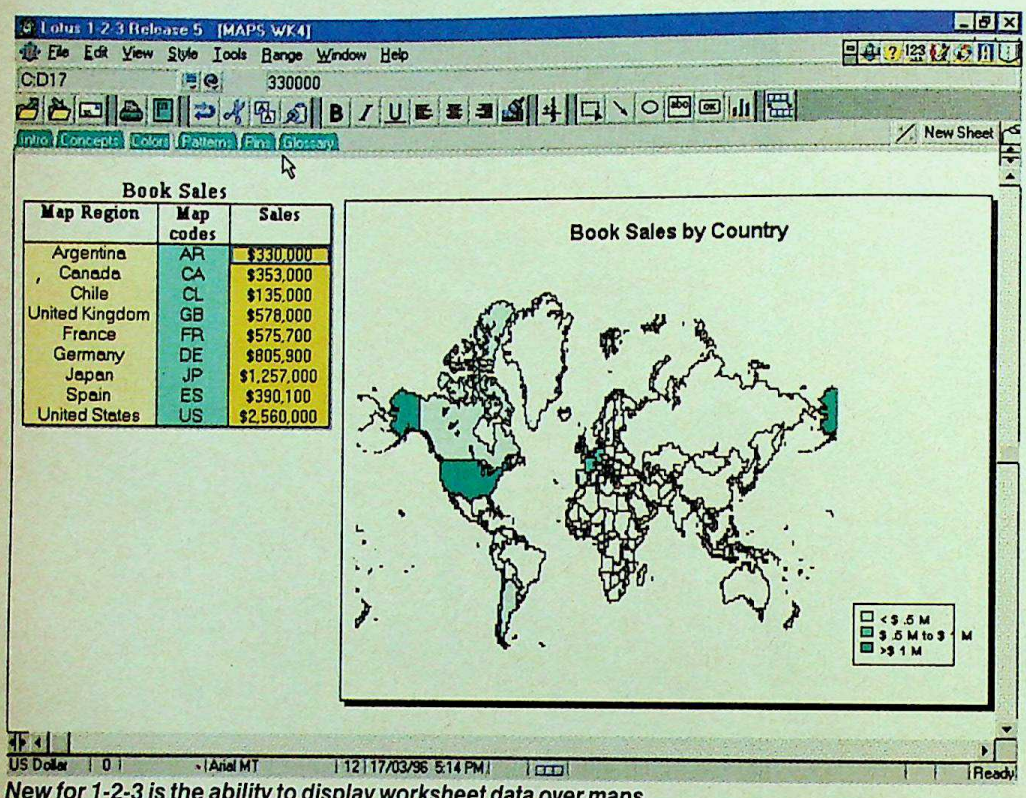
Charting is practically automated. You just select the range and 1-2-3 uses cell contents to automatically create the title, legend and labels. You can use Approach analyze and manage worksheet data without leaving 1-2-3.

File Doc Info lets you enter information for identifying and tracking files. You can assign a file title, add keywords and comments, and even track who creates and modifies each file. You can also use the File Doc Info command to exchange data with Lotus Notes if you set up Notes/FX.

You can open Excel, dBASE, and Paradox files in 1-2-3, and conversely save 1-2-3 files in Excel, dBASE, or Paradox. You can also open text files in 1-2-3, and the advanced Parsing feature makes it easy to import data from text files into the worksheet.

Mapping: You can display your worksheet over a map of the world. You first enter the geopolitical names or map codes in the leftmost column of the range. These codes are used to link map regions to data rows. In columns to the right of the map codes, enter the data that you want to link to each region. Now select the range containing the map data. You can even select a single cell within the range. 1-2-3 determines the borders of the range and creates a map based on the data within those borders. Or choose Tools Map New and click where you want the map to appear in the worksheet.

SmartMaster Templates: When you create a worksheet you can base it on one of the 12 SmartMaster templates that ship with 1-2-3. These include templates for creating budgets, tracking expenses and preparing invoices. There is even a SmartMaster that lets you create your own templates.



New for 1-2-3 is the ability to display worksheet data over maps

Data Analysis: 1-2-3 features tools such as Version and Scenario Control for analyzing data. You can create versions of a name range by assigning alternative sets of values to it.

For example, for the range Circulation, you first enter the values of 30,000, 35,000, 40,000, and 45,000, and then use Version Manager to create a version names High Target. Now enter the values 30,000, 32,000, 34,000, and 36,000 in the same named range and create a second version named Low Target. Version Manager can display either version. You can combine versions to create scenarios. For example, you can combine Circulation High Target and Printing Low Cost to create an Optimistic scenario.

Tasks such as preparing budget projections typically involve Team Computing. In 1-2-3 you can send a range of worksheet data to other users using E-mail. You can send the range simultaneously to everyone or route it sequentially using a mailing list. And 1-2-3 remembers who sent the range and when you merge changes into the original using Version Manager.

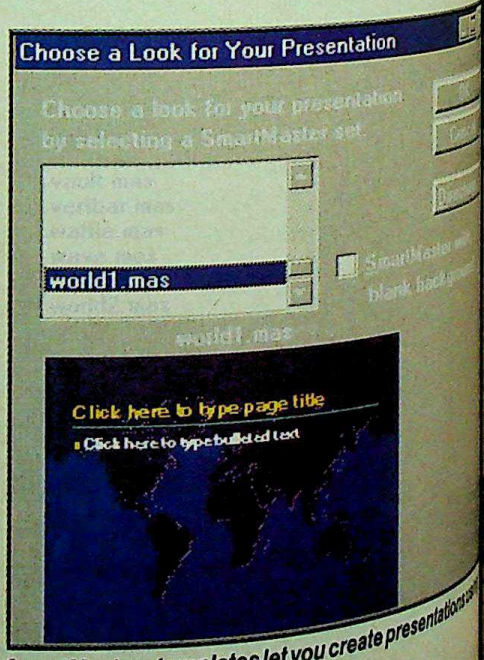
Other improvements include macros to create custom applications, multiple-page print preview, and fast formatting to copy all your formats from one range to other ranges with just one click and colored worksheet tabs.

Freelance Graphics 2.1

The simplest of the Suite products, Freelance lets you create impressive presentations based on data stored in other applications including 1-2-3. Your presentations can be simple and quick, or detailed and impressive with all the trappings of a professional show.

To fast create a presentation, choose a look from over a 100 SmartMaster templates. Next add text to the presentation or use the Outliner. Now run the presentation.

You can also build on your thoughts with the Outline View as you prepare the presentation. The points typed



SmartMasters templates let you create presentations using canned layouts and formatting

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

sorting is done, so your clients don't have to do the searching.

CSI-96 classifies IT through focussed pavillions.

For the first time in India, an IT exhibition that has focussed pavillions to cater to the visitor's specific needs. Like a pavillion for Manufacturing solutions, another for Banking & Finance, one for Media ,, yet another for ...munications. There is also a pavillion for Internet, ...r Home PC and for Spectrum category. So, whether ...wish to highlight a service or showcase a product, ...96 provides the requisite focus and impetus to your ...isation.

...to all this seminars & conferences in perfect ...gy with the solutions approach, addressed by world renowned IT luminaries that enable you to get a glimpse into current trends & the vision of tomorrow and understand the role that India will play as an emerging IT giant.

That's not all. Being the largest user event, CSI '96 will attract a large number of qualified visitors from various industries, keen on serious interaction - the key to profitable deals & contacts, lucrative in the long run.

Located at the sprawling Palace grounds, in the Silicon Valley of India, Bangalore, from 30th Oct to 3rd Nov'96 - CSI '96 is where you ought to be.

Call Now for further details.

COMPUTER SOCIETY OF INDIA
ESTD 1965

CSI-96

The Power of Focus

For Stall Bookings & more details, contact : Show Managers CYBEREXPO

...ALORE
...11)261511,
...2868238
...11)2862971

DELHI	HYDERABAD	MADRAS	CALCUTTA	MUMBAI
TEL: 6416315, 6476664	TEL: 848121	TEL: 459498	TEL: 2471285, 406492, 406810	TEL: 6450050/51
FAX: 6411692	FAX: 816960	FAX: 8252828	FAX: 408423	FAX: 6403986

OR

...-A, HOOTAN NAGAR, GURU NANAK ROAD, BANDRA (W), MUMBAI-400 050. TEL: 6410449, 6421405, 6451479 FAX: 6410465

MX/CSI/2/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

automatically converted to page titles and bulleted lists. You can change indents using the Tab key and edit the presentation directly. The changes you make are reflected in the Outline View.

For more professional presentations you can use a 1-2-3 range to create a table or a graphic chart. Or link a 1-2-3 chart with your presentation.

The Slide Sorter helps you rearrange your presentations. You also have the options of spell checking, adding multimedia objects such as sound or video clips, creating a screen show or even editing the special effects.

Release 2.1 adds some new features. Significant are its ability to share information with a Notes database and to import PowerPoint 3.0 files

Approach 3.0

One PC database product that comes close to being end-user compatible is Approach 3.0. Despite no programming language, Approach still packs a surprising amount of power.

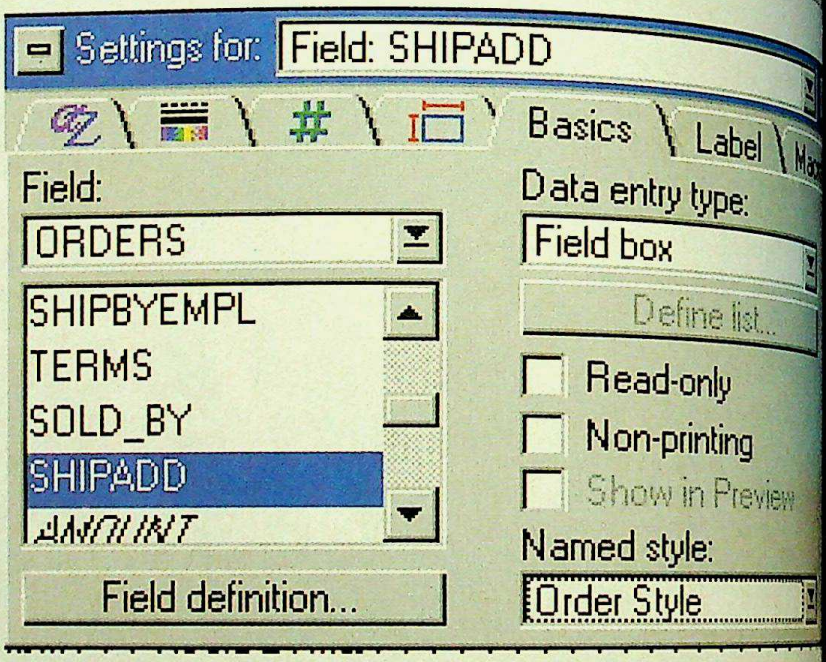
An Approach file (.APR) serves as a window to the data in your database and can be used as a front-end with dBASE, Paradox, FoxPro, 1-2-3 and Notes files using native PowerKey drivers or with back-end databases with ODBC drivers.. An .APR file can consist of forms, form letters, worksheets, reports, charts, cross tabs or labels. Plus, since each table can have its own .APR file this makes Approach unique among database products.

Data Definition: To create a table, choose the file format as Approach defaults to dBASE IV. You can create from scratch or use one of the 50 templates and modify this to meet your needs. Approach supports text, numeric, memo, Boolean, datetime, PicturePlus, calculated and variable fields (a memory field used to temporarily store data for macro execution).

After creating your fields, you define a default value such as previous record value, creation or modification date or time, fixed data value, or value based on a formula. Approach also supports auto-incrementing fields. To maintain domain integrity, you can specify checks such as Unique, Required, Valid Range, Valid values or a check that involves a formula or comparisons with other field values. If a field represents a foreign key, you can also define a referential integrity rule.

Once having created your tables you can define their relationships. You first specify the link field followed by the update and delete rules. Approach supports automatic insertion of a new record in a master table from a detail table, cascade updates and cascade deletes. Many of the definition features supported Approach need code in more advanced PC database products.

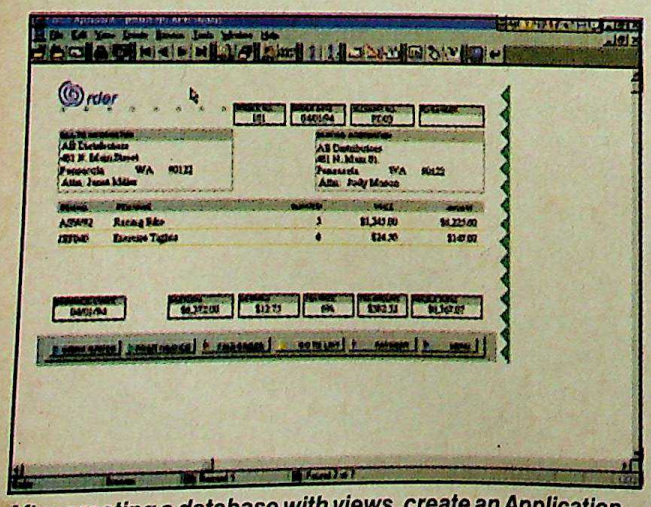
Views consist of forms, reports, tabs or charts. When you first open a table, Approach automatically creates a default form and datasheet view. You can also create your own forms using the Form Assistant. You define the



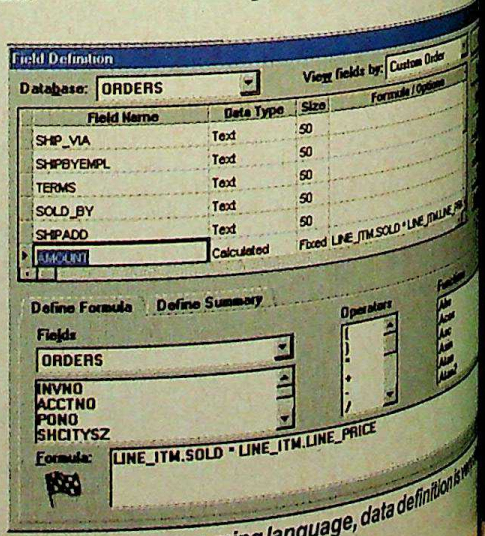
A non-modal multi-page dialog typical of SmartSuite to define and format Approach forms.

title and choose from one of the Smart Master styles (Simple, Shaded, Chiseled, etc.). Next choose a layout (standard, columnar or standard repeating panels). Finally, select the fields that go onto the form.

You can modify the form's design with easy to use tools. Most work is done using the Infobox, a multiple-page dialog typical of all



After creating a database with views, create an Application using macros

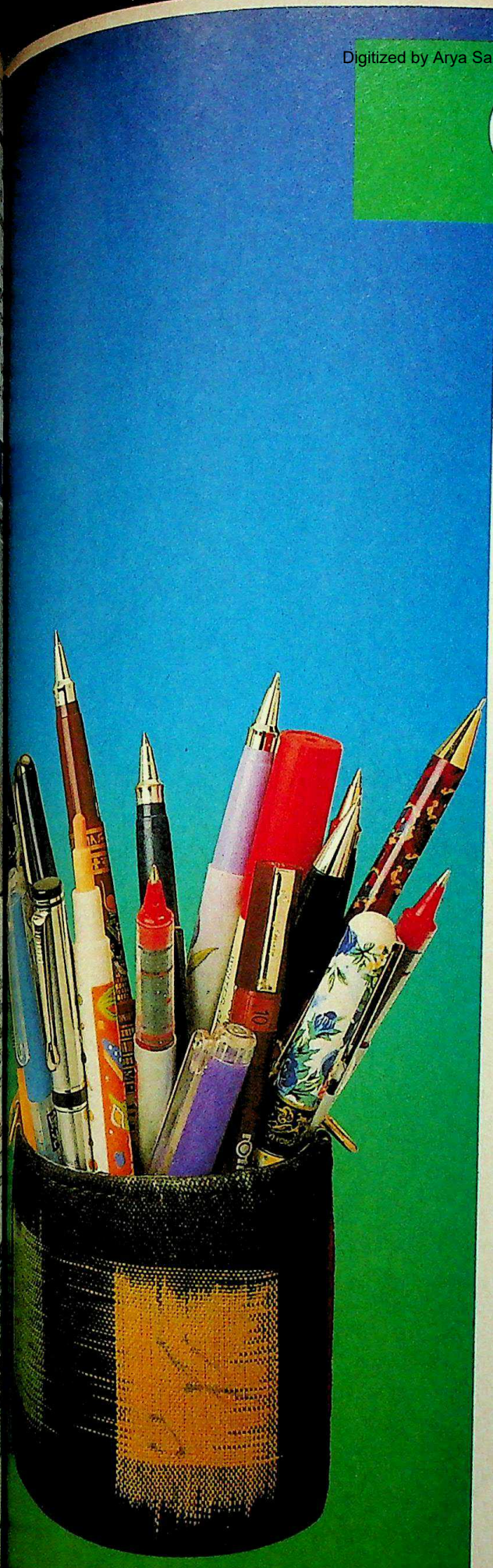


Despite no programming language, data definition is

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

One for all



CSI-96. The largest User Event of IT

Visiting CSI-96 is one certainty on the itinerary of every MIS Specialist, EDP Manager, IT Student and serious decision makers. Which means a broad spectrum of professionals who want to keep abreast of the latest in IT solutions for Manufacturing, Banking & Finance, Media, Communications, Internet and even the Home PC. Bringing together buyers from all walks of life, with all their attention & purchase power.

For the first time in India IT on display, the international way. An IT Exhibition that has focussed pavillions, such as a pavillon for Manufacturing solutions, another for Banking & Finance, one for Media, yet another for Communications. There is also a pavillion for Internet, one for Home PC and the Spectrum category.

With international participation & the presence of South Asian Corporations. CSI-96 is the Information Technology Show of 96.

Add to all this seminars & conferences in perfect synergy with the industry specific solutions approach, addressed by world renowned IT luminaries that enable you to get a glimpse into current trends & the vision of tomorrow and understand the role that India will play as an emerging IT giant.

Located at the sprawling Palace grounds, in the Silicon Valley of India, Bangalore, from 30th Oct to 3rd Nov'96 - CSI-96 is where you ought to be.

Call Now for further details.

COMPUTER SOCIETY OF INDIA
ESTD 1965

CSI-96

The Power of Focus

For Stall Bookings & more details, contact :

Show Managers CYBEREXPO

BANGALORE TEL: 5511511/2861511, 5568238/2868238
FAX: 5562971/2862971 **DELHI** TEL: 6416315, 6476664 FAX: 6411692
HYDERABAD TEL: 848121 FAX: 816960 **MADRAS** TEL: 459498
FAX: 8252828 **CALCUTTA** TEL: 2471285, 406492, 406810
FAX: 408423 **MUMBAI** TEL: 6450050/51 FAX: 6403986

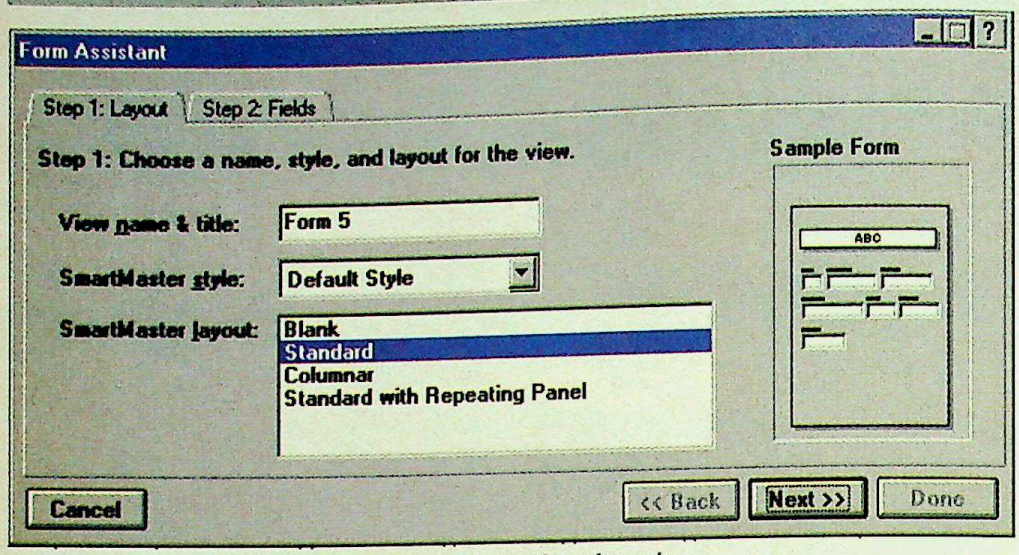
OR

UNIVERSAL EXPOSITIONS
H-8, NOOTAN NAGAR, GURU NANAK ROAD,
BANDRA (W), MUMBAI-400 050.
TEL: 6410449, 6421405, 6451479 FAX: 6410465

MX/CSI/3/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



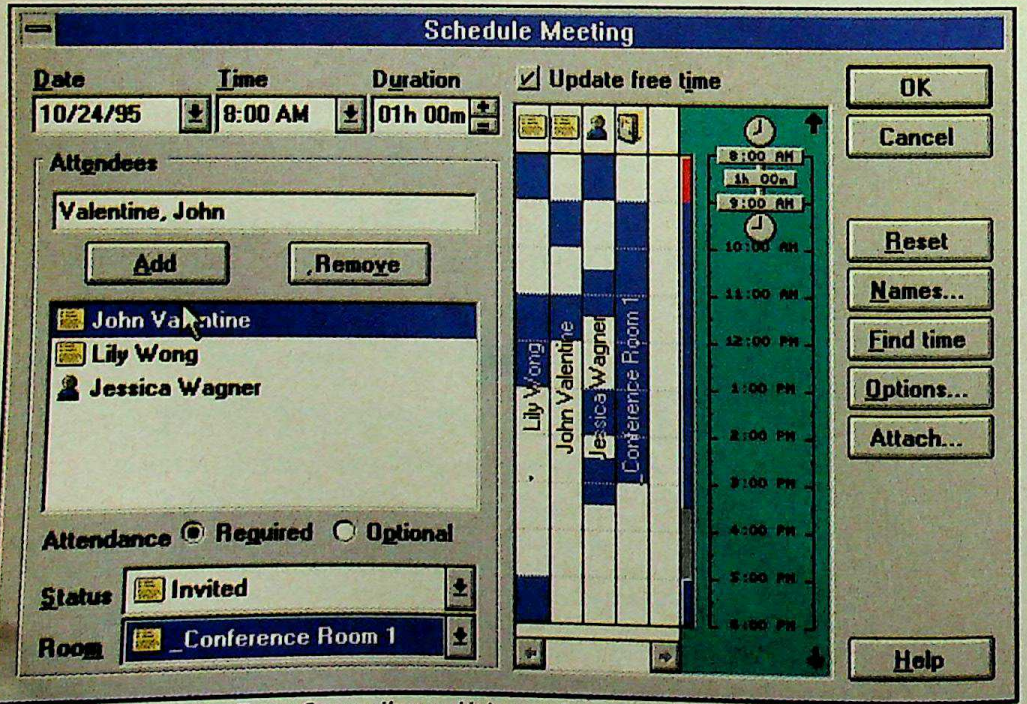
Approach's Form Assistant guides you through creating a form view

applications. This has a page each for the Field Basics, Formatting and trigger Macros. Field Basics lets you define the field display type (Normal, Drop Down List, Combo, Radio Buttons, etc.) and whether the field is read-only. The Formatting page defines formats for label, field text and values, and define the frame's line attributes. The Macro page lets you attach macros to the field enter, update and exit events.

Creating other views such as reports, charts and cross tabs involves similar steps and can be easily learnt by non-programmers.

Application Development: Having created a database and designed views, you create an Application using a combination of macro automation and functions. Your views can have custom menus and icon bars. You can also use macros to validate data, loop through records or switch views. You can define a conditional macro or a chain macro to automate the entire process of data entry and reporting. In short, even without a programming language you can create an application and Approach features 40 new Macros including a phone dialer.

Integration: Approach is both easy to use and impressive in its capabilities. However, it is not a product to create heavy-duty database applications. In the Suite, Approach serves as a tool to extend the capabilities of 1-2-3 and Notes by performing data management tasks that go beyond these applications.



Organizer is a pivot for Team Computing and lets you view appointments for other work-group members before scheduling a meeting

Approach can use 1-2-3 data [illegible] reports, forms, mailing labels [illegible] and worksheets. It can even [illegible] join between a table in 1-2-3 [illegible] and any standard database [illegible] Conversely, from within [illegible] Approach is readily accessible [illegible] option. As a result of this [illegible] integration, Suite users get to [illegible] existing investments in 1-2-3, S[illegible] you can use Approach to create [illegible] forms, mailing labels etc [illegible] manipulate live Notes data. Y[illegible] disseminate Approach reports [illegible] worksheets, mailing labels and [illegible] tabs using e-mail.

Organizer 2.1

Lotus Organizer is a Pe[illegible] Information Manager (PIM) that [illegible] as a pivot for the Team C[illegible] features of this Suite. It is int[illegible] use since it looks, and behaves a[illegible] a calendar diary, complete with [illegible] sections for Addresses, Notes, [illegible] Dates, To Do list and a Planner.

Organizer lets you create [illegible] cross-reference information. Y[illegible] link Calendar entries to your To [illegible] or link entries from here to N[illegible] projects and people. You can al[illegible] addresses from Organizer to 1-2-3 [illegible] Pro and Approach. Conversely, [illegible] import addresses from an Ap[illegible] database to Organizer.

Organizer plays a key role [illegible] Team Computing since it lets [illegible] share calendars. Before schedu[illegible] meeting, view your colleagues' [illegible] dules and choose a free time s[illegible] venient to all participants.

Conclusion

Lotus SmartSuite 3.0 was a [illegible] competitor in the Suites mark[illegible] applications were easy to us[illegible] capable with all the features that [illegible] user would want without unnec[illegible] bloated code size.

SmartSuite 4.0 adds us[illegible] focuses more on Team Comput[illegible] emphasizes tight integrat[illegible] products. While there can be [illegible] that Lotus has met their desig[illegible] with aplomb, users upgra[illegible] SmartSuite 4.0 will miss the ap[illegible] execution speed of their earlier [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ouldn't it be great to have PC's that e future ready, reliable and st less to buy?

Affordable

3-year warranty

intel inside pentium PROCESSOR

*...VE2 5/75 Intel Pentium® Processor 75-Mhz, 8MB EDO RAM/640MB, HP SVGA color monitor, Dashboard 2.2, DMI ready, keyboard ...capability, 4x4 upgradable system design, 3 year comprehensive warranty (1 year on-site) Rs. 98,900/-**

...ucing the new HP Vectra ...nd HP Vectra VL4 PCs. They ...with a cart-load of exciting ...es like fast EDO RAM, plug ...y, and DMI 250. And are ...on the latest version of the ...chipset giving you chip ...ability from 75MHz to 200 ...tel Pentium® processors.

...ra Desktop PCs are ...d to be future-ready. With ...pansion slots and ...en bays, your investment is protected. You also get the most powerful graphics support for sophisticated, next-generation software.

And on top of HP's legendary quality and reliability, you get the peace of mind that comes from a 3-year warranty delivered through a nationwide network of HP authorised support providers.

Why shop around? With HP Vectra VE2 and HP Vectra VL4 PCs, you're guaranteed great value.

For further information please contact any of our dealers. Or, to receive product data sheets, please call **HP FIRST at (011) 6226420** from your fax machine or touch-tone telephone, and request document ID number 90055 and 90198.

HEWLETT PACKARD

...t-Packard India Ltd., Paharpur Business Centre, 21 Nehru Place, New Delhi-110 019. Tel : 6472311, 6472328-30.
...Dealers : **• CMS Computers Ltd.,** Bangalore : Tel : 5586790. Bombay : Tel : 2851580. Calcutta : Tel : 2408949. Delhi : Tel : 6912036. Hyderabad : Tel : 848336. ...: 6268629. **• Electronics Corporation of India Ltd., Computer Group,** Bangalore : Tel : 2267082. Bombay : Tel : 4229704. Calcutta : Tel : 22429181 Delhi : Tel : 608225. ...: 6260483. Madras : Tel : 4349620. **• Godrej Trading & Services Co. Ltd.,** Bangalore : Tel : 2216487. Bombay : Tel : 2049663. Calcutta : Tel : 3596111. ...: 6266231. Hyderabad : Tel : 201876. Madras : Tel : 6257331. **• HCL Hewlett - Packard Ltd.,** Bangalore : Tel : 5584091. Bombay : Tel : 2626984. Calcutta : Tel : 2476120. ...: 6644269. Hyderabad : Tel : 814525. Madras : Tel : 8276242. **• Zenith Computers Ltd.,** Bangalore : Tel : 2264999. Bombay : Tel: 8377300. Calcutta : Tel : 4753872. ...: 6241147. Madras : Tel : 4349661. Secunderabad : Tel : 812494.

...Intel Pentium processor logos and Pentium are registered trademarks of Intel Corporation.

** Estimated street price. Local taxes and levies extra.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Corel Photo-Paint 6.0

A powerful image editing and manipulation app

The last Corel paint package I tried out was Corel Photo-Paint 3.0. This seemingly primitive add-on to a powerful drawing app put me off Corel Photo-Paint for the next two versions. But using Photo-Paint 6.0 made me wonder if I might have allowed my antipathy to deprive me of something useful. This version is an image creation and manipulation program which stands by itself, and is no longer a satellite of CorelDRAW! There are many different programs for fiddling around with images. And each has its own strengths and weaknesses. You end up selecting one favorite depending upon the work you need to do, and continue to use others for those special things that your main app is weak at.

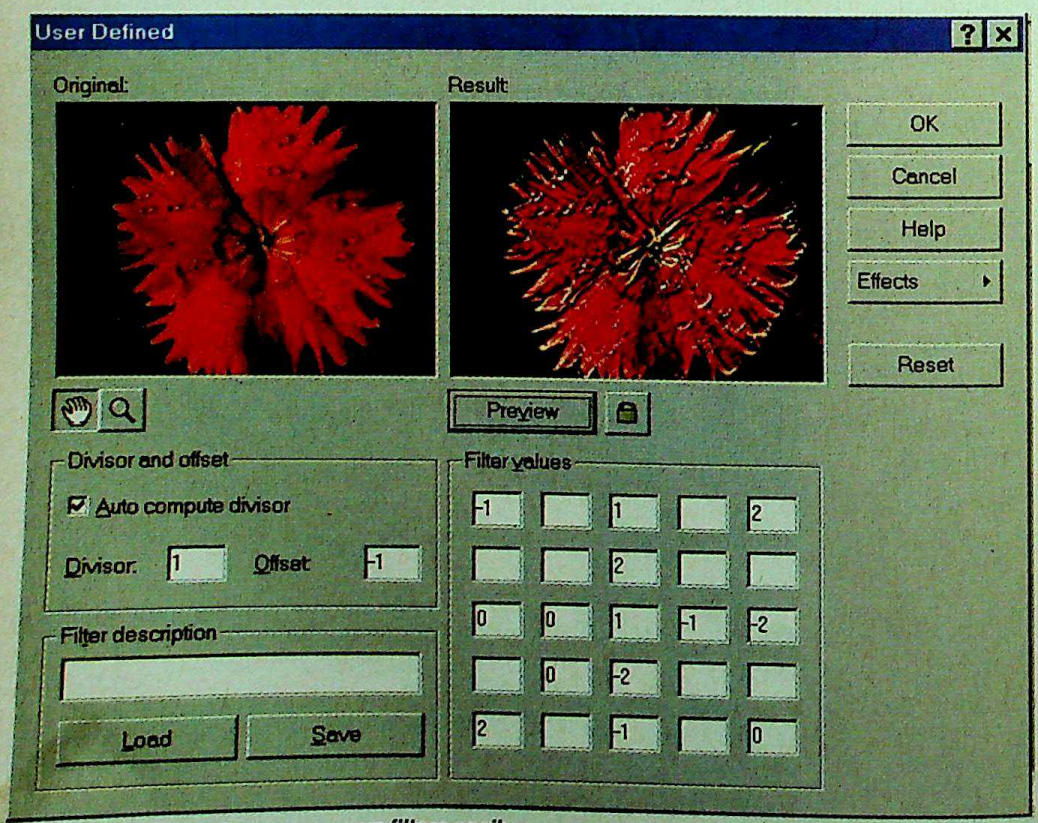
Over time, Adobe Photoshop has grown to be my (and lots of other graphically-oriented folk's) paint program of choice. As a result, I compare other programs with Photoshop and evaluate them using the features that vary, positively or negatively, from the latter.

One of the powerful weapons in Photoshop's arsenal is the layering facility. This feature tips the balance in favour of the entire app. Most of the other things Photoshop does can be done just as well by similar apps.

But Photo-Paint 6.0 attempts to combat the power of layers by introducing the concept of 'Objects'. These are related to Fractal Painter floaters and CorelDRAW objects, with some properties mimicking each of these concepts.

Photo-Paint allows you to create such objects at different levels on top of your original image, and then manipulate them. These include editing them separately from the rest of the image, modifying their order (to front, to back, as in DRAW), hiding and locking them, even distorting them through m... iting. The Objects concept is a... Paint strength. Once you're ... doing things to these objects, th... some 20 different ways to mix ... with the background.

Photo-Paint's versatility allo... eral layers of options on almost... its tools and commands, and th... range of possibilities available ... fingertips is massive. For exam... the basic Paint toolbox, which ... three main options that allow ... select different paint tools, (text... dabs. Each tool (airbrush, pa... spray can, or pencil) in turn ...



You can design and save your own filters easily

THE SPECS

PRODUCT: Corel Photo-Paint 6.0

TYPE: Image-editing software for Win...

REQUIREMENTS: 486DX/66 with 16MB ... Windows 95, Mouse, VGA Color, ... ROM drive

FEATURES: High-end image ... color and channel separations ... of partial files; floating Object ... tion; advanced mask editing; ... Undo; Movie file editing; direct ... compliant scanning support; ... tools options; large range of special ... effects.

PRICE: Rs 12,180

SUMMARY: A high-capability ... nipulation software with tremendous ... satility in effects. Easy and unclutter... not terribly attractive) interface. Pow... work with, as long as the computer ... it is used on is powerful enough.

DEVELOPER: Corel Corporation

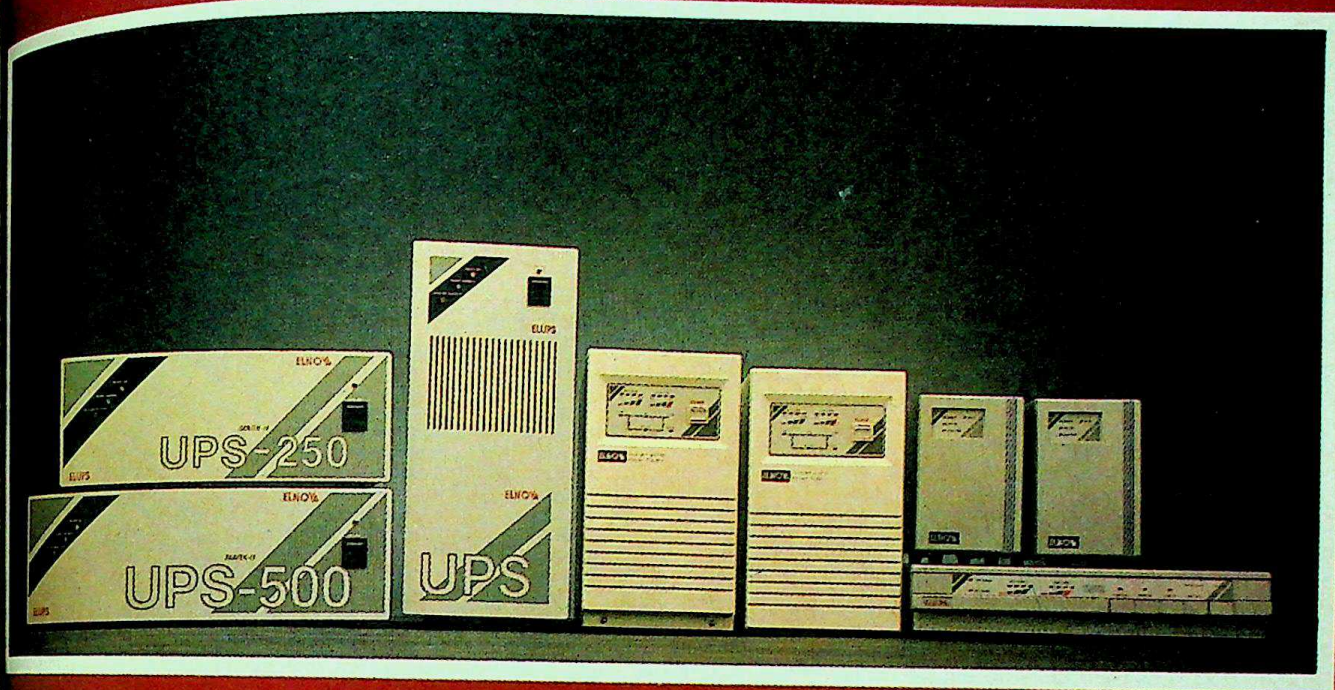
VENDOR: SVAM Software, 70 ... Connaught Place, New Delhi ... Tel: 11-3320224, 3324551, 37... 3731845 Fax: 11-3723266 ... svam@giasd101.vsnl.net.in E-... mail(X.400)C=IN, A=VSNL, P=... S=SOFTWARE, G=SVAM

Reader Query Service #E...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Every year intelligent computer users save thousands of man & machine hours...



Rated on **TOP** PC Quest Users' Survey 94-95 and again in Users' Survey **95-96**

by selecting and installing a UPS system that's proved its credentials as the best for **easy computing in tough power conditions,** time and again.
Join the Elnova UPS users' fraternity.
Call the Authorized Elnova Dealer nearest to you and equip your computer before power plays truant again.

ELNOVA

ELNOVA LIMITED

3-165 Okhla Inustrial Area, Phase I, New Delhi 110 020
Tel.: 6810172, 6810569 Fax:91-11-6811667

Specially for **COMPUTERS** **UPS** *Specially for* Indian Power Conditions

For Govt. Organisations in & around Delhi: Available through Super Bazar, Connaught Place, New Delhi on rate contract :Contact Call Registered supplier: M/s. Hearwell Electronics Pvt. Ltd. Ph: 6980853, 6981154,6989949, 6982937, 6989386 Fax: 91-11-6984768

Authorized Dealers:

NORTH •AGRA - 50555 •AJMER - 421230 • ALLAHABAD - 644330 •BAREILLY - 455085 •BHILWARA - 27625 •BIKANER - 61821 •CHANDIGARH - 705998 •GHAZIABAD - 712839 •GORAKHPUR - 336152 •GURGAON - 8340003 •HARDWAR - 450489 •JAIPUR-370111 •JALANDHAR - 260998 •LUDHIANA - 23800 •JAMMU - 49053 •JODHPUR - 35830 •KANPUR - 319916,312544 •KOTA -24556 •LUCKNOW - 226576,218332 •SHIMLA - 72552 •MUSSORIE - 631055 •MUZAFFARNAGAR - 403274 •PANIPAT - 51877 •ROORKEE - 74340 •RUDRAPUR - 84456

EAST •BERHAMPUR - 206317 •BHUBANESHWAR - 406180 •CALCUTTA-2387904, 3345156 •DHANBAD-307113 • GANGTOK- 22279 •GUWAHATI - 565048, 543077, 543415 •IMPHAL - 220555, 220795 •ITANAGAR - 33376 •JAMSHEDPUR-423481 •PATNA -659453,230007 •SILIGUCHI-315175 •SHILLONG - 220244 •TINSUKIA-20310

WEST •AHMEDABAD - 5507021 •AURANGABAD - 24637 •BARODA - 333193 •BOMBAY - 3436456 •GOA - 22468,22637 •KOLHAPUR-625665 •MIRAJ - 350910 •NASIK - 70757 • PUNE - 356818, 358618 •RAJKOT - 55426 • SANGLI - 76348 •SURAT - 649964 •PUNE-5361023 •ULHASNAGAR - 541225

SOUTH •BANGALORE-3374825 •BELGAUM - 26335 •COCHIN - 310182 •COIMBATORE - 444017 •HYDERABAD - 7618609, 846863 •HOSUR-372106 •MADRAS- 4941719, 4345634 •MANGALORE - 440921 •VIJAYWADA - 477077 •VIZAG-547131 • TRIVANDRUM -452114

CENTRAL •BHILAI/DURG - 323427 •BILASPUR - 21030 •BHOPAL - 582782 •GWALIOR-331721 •INDORE-531889 •JABALPUR-28798 •JHANSI-444507 •NAGPUR-520777 •RAIPUR - 535011

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

variety of brush and ink options, as well as different brush settings for look or transparency. You can even customize a brush type (if you like the effect you get with that style) and save it for use at other stages.

The Effects filters provided with Photo-Paint gives the user simple access to a diverse image special effects. These range from simple color and sharpness adjustments through texturisers and distortion effects to complex simulated 3-D manipulation and rendering styles. In particular, the built-in artistic styles, particular Alchemy and Terrazzo plug-ins from Xaos Tools, extend the envelope, making you a closet Van Gogh or Monet.

Photo-Paint 6.0 can also work on a 'Movie' in the form of a sequence of numbered files, which can then be used very effectively to create frames for an animation film. You can also capture sequential frames from a video film, treat them and then return them to onto video for some spectacular special effects.

Since Photo-Paint 6.0 is a paint program, it works with raster instead of vector images. (In vector programs, such as CorelDRAW!, the image is composed of separate geometric objects which can be scaled, moved, distorted, etc.) The files created are saved with information for each pixel as a separate entity. Any changes in the image have to be made by physically changing the image as you would in a real painting.

Photo-Paint's range of tools ranges through a variety of masking and selection tools (that allow you to manipulate sections of the overall image), paint and draw, as well as display and feature tools for cropping, color selection, zooming and effects tools for distorting (desaturating colors), burning (darkening colors), and cloning (duplicating parts of an image from any other region). These tools are used in conjunction with a number of command features to provide an almost infinite variety of possible results.

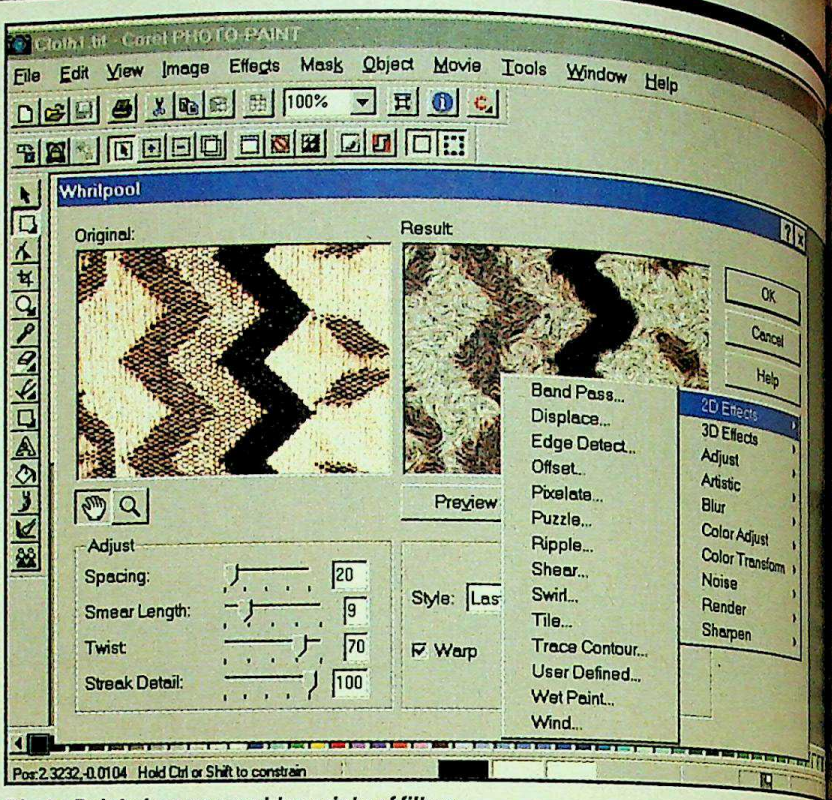
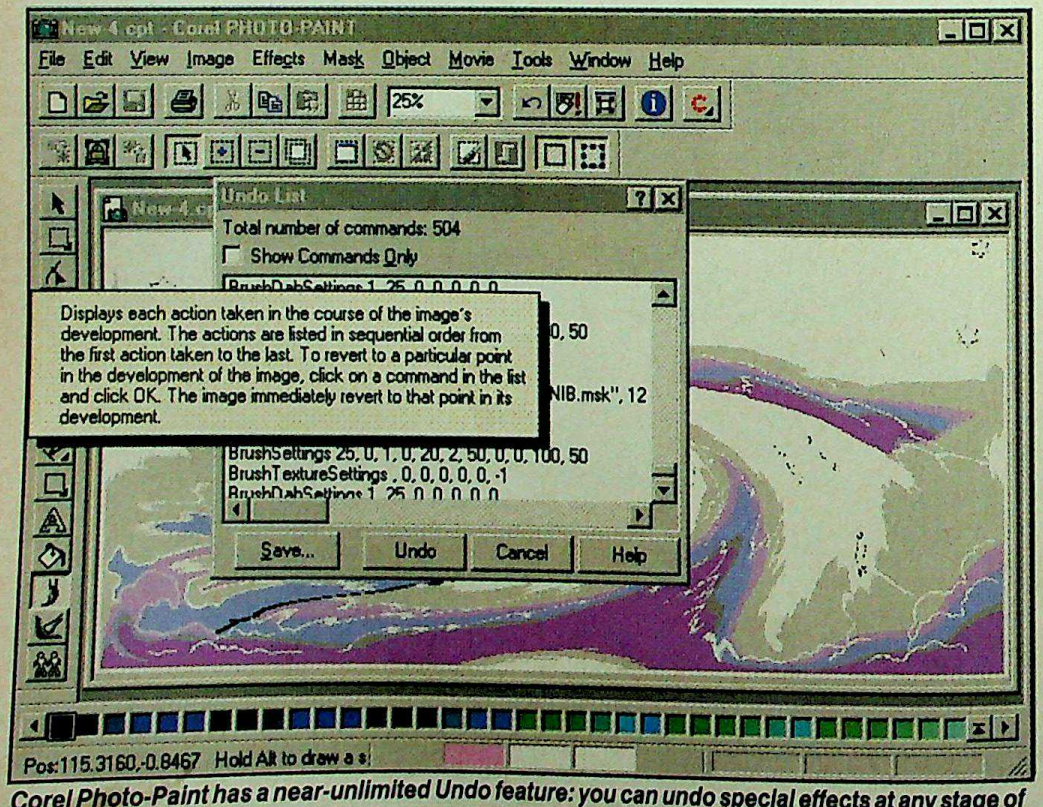


Photo-Paint gives you a wide variety of filters

Applications of a program [like] this ranges from, at the most [basic] creating graphics and painting [and] compositing and manipulation [of] ages such as scanned photog[raphs] complicated ways. The Movie [feature] built into Photo-Paint 6.0 can [be] useful aid in creating frames for [an] tion, special effects for a sequ[ence] images for video, etc.

This is a powerful software [and] a high-end configuration (a [Pentium] 32 MB RAM, graphics accelerator and a 32-bit OS) to work efficiently if you're still cranking up the old and hoping that Photo-Paint will an Old Master of you, think again. if you've got a system that ticks, passion for great pictures, Photo-6.0 might make it happen, though one would not make this my first painting program.

Aniruddha Sen Gupta is with Multicom Interactive, a multimedia [company] developing [...]



Corel Photo-Paint has a near-unlimited Undo feature: you can undo special effects at any stage of image processing

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HP Vectra 500

A Pentium PC optimized for Windows 95, for SOHO users

This is the first of HP's Win 95 Vectras. What we got at PCQ Labs was a "beta" or prototype unit of the Vectra 500, which the said "may not have the full quality". Vectra is a Pentium/100 with pre-alled multimedia (a SoundBlaster and a Quad speed CD-ROM drive). is a plug-and-play system with power management, meeting US EPA "Green PC" standards. The unit we tested had a tiny 8 MB of RAM and a 1 GB hard disk.

The Vectra has Windows 95 pre-installed; you simply have to power on. A little electronic switch, which doubles up as a power indicator and hard disk light, helps you do that. After that, it's all through standard Windows 95 power management. A Windows 95 shutdown, or extended non-use, gently powers down the system. Pressing the spacebar rejuvenates it.

Vectra 500 ships a compact headset that includes crophone.

Some nice utilities and icons on the desktop make life easier. *Learning About Your PC* helps you check for the components of your hardware. A *Favorites* groups lists commonly-used programs on your desktop, under functional headings like Business Center, Communication Center, Mutlimedia Center and Online Access.

A Registration option is supposed to let HP support centers remotely maintain your system. This is unlikely to happen in India, though.

This Vectra looks like it's gone through quite a bit of design. There's a delightful shutter that covers the drive-bays—press a catch, and the shutter gently, through a hydraulic-damped mechanism, slides all the way up.

The cabinet is so elegantly designed that at PCQ Labs we had a tough time opening it. Finally after numerous attempts, we found a simple manner of sliding out the front section after pulling out two small levers. Inside, the cables are not sprawling, but are neatly folded and guided into place.

The motherboard has onboard VGA, IDE hard disk drivers, and a daughtercard for expansion. Six 72-pin SIMM slots are available for main memory. The CPU is on the standard ZIF socket, with an elegant looking heat sink. Two fans circulate air in the cabinet.

The Vectra 500 ships with a 14" inch color monitor, which appears to use a relay to power down the CRT electrics, controlled by software, so the PC can direct the monitor to switch on or off through software.

THE SPECS

PRODUCT: HP Vectra 500 PC. 100 MHz Pentium PC for Windows 95. CD-ROM Drive, twin-button HP mouse, 1.44 MB floppy drive, 1 GB hard disk, 8 MB RAM, Windows 95 preinstalled.

FEATURES: Power management system, auto power-down, Win 95 keyboard.

PRICE: Rs 147,536 (Rs 199,435 with Pentium/133 and 16 MB)

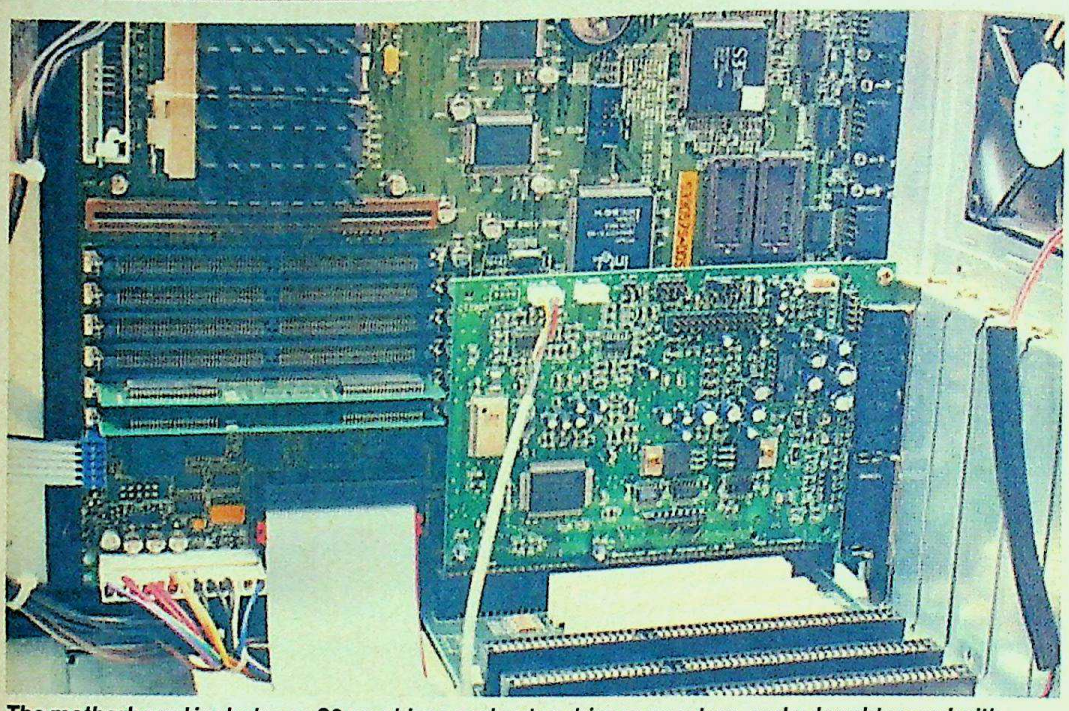
SUMMARY: A multimedia Pentium PC, optimized for Win 95. A well-designed and engineered system that is essentially very fast, but almost unusable with the basic 8 MB of RAM. There's no built-in datacom or network support. But if you buy it with 16...32 MB of RAM, this is a powerful and elegant Windows system.

MFR: Hewlett Packard India Ltd, Paharpur Business Center, 21 Nehru Place, New Delhi 110 019 Tel: 11-6472311, 6472328 Fax: 11-6461117

Reader Query Service #E0433

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



The motherboard includes an S3 graphics accelerator, drive connectors, and a daughtercard with expansion slots.

We tested the Vectra with DOS, Windows 95, Linux and OS/2, and they all worked flawlessly. OS/2 Warp and Win 95 co-existed on the same partition without any problems, without the use of Boot Manager.

The Vectra 500 is designed for more than basic use. But our wishlist is long enough, for this target segment.

First, more RAM. 8 MB is [illegible] for Windows 95. Second, we [illegible] have liked an internal fax/[illegible] card with voice support. And [illegible] a network port built in. Finally, [illegible] default keyboard is not the US [illegible] board that we are accustomed [illegible] India—it appears to be a hybrid [illegible] remapped, UK keyboard. So, [illegible] some of the keys say and what [illegible] actually type out are different.

Performance was less than [illegible] whelming. Benchmarks ran fast [illegible] graphics and internet apps, and [illegible] Windows 95 apps, choked on [illegible] MB of RAM. So don't touch this system with less than 16 MB—we don't [illegible] why HP bothers with an 8 [illegible] configuration at all.

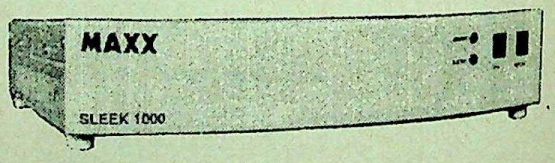
The price tag of Rs 150,000 is [illegible] steep for the SOHO user. But with [illegible] design, engineering and usability—[illegible] additional RAM—this does make a powerful Windows system.

Alok Sinha with PKR at PCQ [illegible]

UPS MAXX

UPS PRICE DOWN

Nobody can beat us either in price or in quality. Prompt after sales service. One Year Guarantee



RS. 8500/- FOR 625 VA UPS WITH 2 NOS. 7AH SMF BATTERIES
Also Available On-Line UPS from 0.5KVA to 10KVA

* Bangalore: 14/1, 2nd Floor, H. Siddiah Road Cross, Ph: 2220953 / 2243229
* New Delhi : A.118, Lajpatnagar - I, Ph: 6832091 / 6829478 Fax: 6832091

OTHER PRODUCTS : SERVO STABILIZER, CVT, SILENT GENERATOR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Internet

Glimpses on a CD-ROM. Free with PC Quest June 1996

55,000 PCQ Summer 96 CD-ROMs will go out this summer, one with every copy of PC Quest's June 1996 issue to subscribers and newsstands. With glimpses from the World Wide Web, and the rest of the Internet. For the 280,000 readers who don't yet have an Internet connection. It's going to be like having your Website on the PCs of a hundred thousand users.

To book your Web-space on the CD-ROM, get on the Internet and write to **pcq@pobox.com** Or fax Venayak Bhatnagar at 011-6475765, or call your nearest PC Quest office at Bombay 6427910, 6450050; Bangalore 5511511, 5568238; Calcutta 2471285; Delhi 6411692, 6416315; Madras 459498; Secunderabad 848121.

For more details and rates, see page 109

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

OmniBook 5000CTS

HP's "desktop-to-go" notebook has power, quality sound and video, but it's priced into the sky

Carrying a 120 MHz Pentium chip on board, this is HP's high-end notebook entry. It's bulky for a notebook, but packs in more power than any notebook or desktop we've tested yet at PCQ Labs. It also packs in more price into the tag than any such product we've tested so far.

The OmniBook started up quickly with Windows 95, and a snazzy, interactive multimedia demo covered features, specs, and operation. This turned out to be dated (it referred to a Pentium/90 processor) but very useful nonetheless. The graphics really sparkled on the large, active-matrix TFT display.

The system BIOS is plug-and-play (PuP) compatible, and has a nice menu-driven BIOS setup front-end. With supported (PuP) devices, you don't need to enter Setup at all to upgrade—just plug in the device. The hard disk was an odd 772 MB, though the specs suggested 810 MB.

What we tested was evidently not the shipping version. On bootup the BIOS flashed out "Beta 1.6—For Evaluation Only". This could account for the bug we came across: on a resume after a sleep-mode suspend operation, the audio inevitably went haywire, and required rebooting or restarting Win 95. However, a forced suspend-to-disk (Fn-F12) worked well enough.

And when the system did hang, such as on a resume, Win 95 froze. We slid out and pushed back the battery. Finally, we noticed a tiny "reset" hole, which worked just as well.

Though we didn't get any manuals at all with the test unit, there were some good online multimedia demos and documentation. This was, however, rather out of date. While the BIOS date was September 1995, the "late-breaking news" in the documentation was dated April 1995! Expectedly, all the documentation or demo screens inside showed Windows 3.1—while the notebook itself had Win 95 installed.

Who's going to *buy* this Omni... That's a tough one.

Rs 5 lakh can buy you one hell of a... of desktop power, twice over... you... buy two HP Pentium desktops—... the home—with CD-ROM, multimedia... the works. So this OmniBook is pro... going to go to a small group of very... managers who happen to be power... *and* who have a need for m... presentations. For that, a CD-ROM s... really have been part of this packa...

Overall, a power-packed produc... is, at this price, of questionable v... Someday, perhaps, HP's portable... ducts division people are going d... down and try to learn a thing or tw... pricing from the same company's pr... division. Till then, such portable m... are going to remain "top-of-the... gadgets that few in India will ever ...

THE SPECS

PRODUCT: HP OmniBook 5000CTS ... MHz Pentium notebook with PCI ... 16-bit sound, trackball, speakers, PCMCIA Type III (or two Type II). Lithium-ion batte... 30 x 23 x 5 cm, 3 kg. Optional docking station.

FEATURES: Infrared port, SVGA or ... PAL video out, lithium-ion battery with ... on and suspend-to-disk features. Second battery can replace floppy drive. Built-in stereo speakers. Plug-and-play BIOS. ... status panel.

PRICE: Rs 477,000 (estimated for ... configuration)

SUMMARY: Bulky for a notebook, but ... powerful "desktop-to-go" portable with ... sharp colors, snappy stereo sound, ... built-in speakers. Useful status panel, ... suspend and sleep features, optional ... second battery for 4-hour-plus life on a ... charge. But no CD-ROM drive. A top-of-the-line notebook whose appeal would ... have been more at half this price.

MFR: Hewlett Packard India Ltd, Patel ... Business Center, 21 Nehru Place, New ... Delhi 110019 Tel: 11-6472311, 647... Fax: 11-646117

Reader Query Service #E0435

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Logitech TrackMan Marble

A very ergonomic and easy-to-use trackball

The TrackMan Marble uses innovative optical sensing technology to record motion. A light beam is projected through a prism onto the speckled surface of the ball. This ensures that efficiency is not reduced by oil or dust on the ball's surface.

The Marble reviewed was for right-handed use. The large, sculpted base lets you place the Marble just about anywhere: on the edge of your desk, on your hip or joining your keyboard. Users with small hands might find the Marble a handful at first. But once you get used to it, moving the ball is easy and the pointer moves smoothly. Returning to a conventional mouse feels strange.

Your thumb moves the trackball and there are three, grooved buttons; one per finger. The Marble is an ergonomic dream; especially for Windows users since the middle button is user-configurable from predefined commands such as double-click or drag-lock.

Using the bundled MouseWare 6.6, you can configure the size, orientation and arrow type wanted. Besides the usual mouse trails and swap buttons option, there's also SmartMove (see also "Trackman Voyager" in *PC Quest*, March 1996). Also, although we don't recommend this, you can also change your pointing device while your PC is on.

The product is designed for power users including graphic designers who move both their pointing device and fingers a lot. But the list price is steep.

G Menon for PCQ Labs

THE SPECS

PRODUCT: Logitech TrackMan Marble. Optical sensing pointing device.

FEATURES: Can be used with DOS and Windows 3.x. Uses proprietary MouseWare software to configure buttons. Is Windows 95 Plug-and-Play compatible.

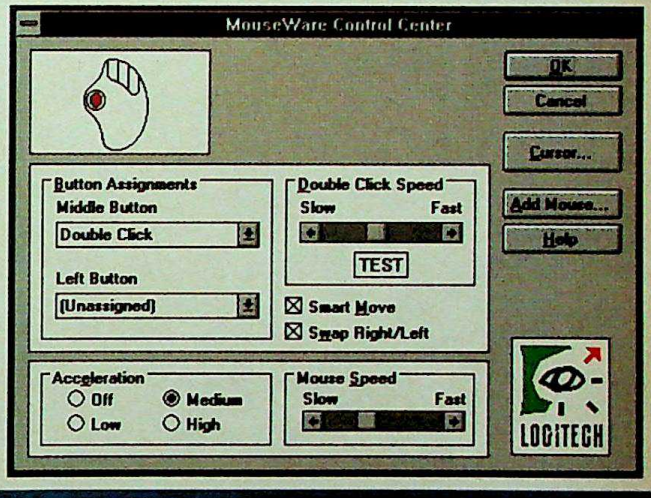
PRICE: Rs 4,495

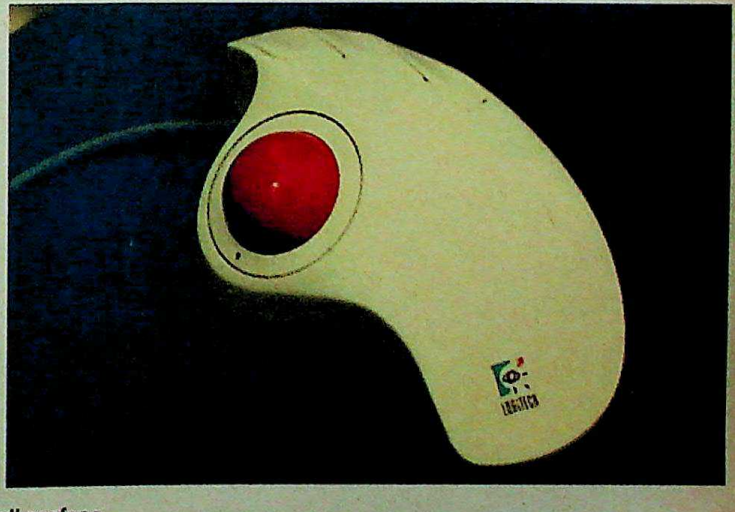
SUMMARY: An excellent pointing device, optimally designed for dusty and dirty environments. But takes some getting used to and is overpriced for its class.

DEVELOPER: Logitech

VENDOR: Vintron Electronics, F-34 Okhla Industrial Area, Phase I, New Delhi 110020. Tel: 11-6814520 Fax: 11-6810460

Reader Query Service #E0424





The TrackMan senses motion by detecting light reflected off the speckled ball surface

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AMIDisk 1.1

This IDE BIOS extender card lets you use big hard disks with PCs that have older BIOSes

THE SPECS

PRODUCT: : AMIDisk 1.1, IDE BIOS extender card for LBA hard drive

FEATURES: No software driver Supports up to 4 IDE drives.

PRICE: Rs 2,500 plus taxes

SUMMARY: If your PC doesn't hard drives bigger than 528 MB, card plugs in to add "LBA" installing larger hard drives. A little sive, but simple and effective, and lets you install up to four IDE drives

MFR: American Megatrends Inc Fax 1-404-2639381. **VENDOR:** Systems, 223 Bomikhal, PO Bhubaneswar 751010, OR. Tel 674- Fax 674-413842.

Reader Query Service #E0427

PC hard drives are rapidly crossing the half-gigabyte mark. And most PCs today support these larger drives. But what if you have an older PC, with a 1994 or earlier BIOS, that doesn't?

This AMI card is meant for such PCs. You plug it in, and your PC will support larger drives.

The BIOS could traditionally support hard drives of up to 528 MB (formatted hard disk capacity). This barrier was later overcome with something called LBA—Logical Block Addressing. This is a feature supplied by the disk interface, but the BIOS needs to support it. The older BIOSes do not.

If your PC's BIOS does not have an LBA mode in the drive type options, you have two workarounds if you want to put in a 540 MB or larger driver.

The software solution uses device drivers or TSRs, such as the On Track disk manager. These make the disk readable only on the system on which it was originally installed. Any corruption to the installed utility is likely to result in all your data being lost. In some cases, they can interfere with other software.

The hardware solution is to use BIOS extenders like the one reviewed here.

The Card

AMIDisk 1.1 is a half sized card that plugs in to any free slot on your motherboard. This works only with IDE hard disks that have the autodetect ture. AMIDISK not only adds LBA port to your BIOS, but also support to four IDE drives, through two controllers.

We tested out AMIDISK on a 486 with a 1993 AMIBIOS ver 2.0G. We ply plugged in the card without chan any jumper settings, and rebooted system with a 105 MB Seagate as dri and the Conner 635 MB as drive D the bootup screens, a new screen s up with details of both the installed (Amidisk autodetects installed disks.) From then on, the disk exte worked like a dream. In fact, we us with the Conner drive for producing PCQ Spring 96 CD ROM.

The 10 page manual is quite suffi for the installation and for setting jumpers, if required.

Is it worth the price? At Rs 2,500 taxes, you should first check if you simply replace your PC's BIOS with one, which might be cheaper. If cannot (some BIOS chips may be dered onto the motherboard), this worthwhile option—and more so need to add more than two IDE dr your system.

Krishna Kumar & P

The tiny card plugs in without any setup required

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

power

hungri

you're looking for a little more power to your PC, you couldn't do better than to tune in to us. PC Quest is a vibrant, alive network that gives you helpful inputs on everything from choosing the right package to the best peripherals available. So to get more out of your PC, start with getting a PC Quest.

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

MORE POWER TO THE COMPUTER USER

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YES, I would like to avail of this offer & become a subscriber of PC Quest. I want to subscribe for

	TERM	STAND PRICE	YOU PAY	YOU SAVE
❑	3 Years	Rs. 900/-	Rs. 630/-	Rs. 215/-
❑	2 Years	Rs. 600/-	Rs. 450/-	Rs. 150/-
❑	1 Year	Rs. 300/-	Rs. 240/-	Rs. 60/-

Foreign Subscription Rates
By Air Mail
1 Year US $ 60/-

Enclosed is my cheque/DD No. _____ dated _____
for Rs. _____ drawn in favour of **CYBER MEDIA (INDIA) LTD.**
(Add Rs. 15/- for outstation cheques)

From :

Name: _____ Designation : _____
Organisation _____
Address : _____
_____ City: _____ Pin: _____
Phone: _____ Fax: _____

Mail Back to : Cyber Media (India) Ltd., 701, Meghdoot Building, 94, Nehru Place, New Delhi-110019
Ph. : 6416315, 6476664, 6411692. Fax : 6476664.

Please help us get to know more about your needs by filling in this form.

A. YOUR JOB TITLE

- ■ MD/President/CEO/Director
- ■ Manager/Asst. Manager
- ■ Cust. Engg./Executive
- ■ Any other_____
- ■ VP/GM
- ■ Analyst/Programmer
- ■ Consultant/Trainer

B. YOUR WORK AREA

- ■ MIS/Computers/Communications
- ■ Marketing/Sales/Gen. Mgmt.
- ■ Any other_____
- ■ Purchase/Finance/Admn.
- ■ Education/Training

C. YOU WORK FOR

- ■ An. I.T. Company
  WHICH IS IN...
- ■ Govt. Sector
- ■ Private Sector
- ■ MNC
- ■ A User Company
- ■ Public Sector
- ■ Education / R&D
- ■ Any other_____

D. IF YOU WORK FOR AN I.T. COMPANY, IT IS PRIMARILY IN

- ■ Hardware
- ■ Distributor/Retailer/Dealer
- ■ Training/Consultancy
- ■ Software Development
- ■ Peripherals
- ■ Any other_____

E. YOUR ROLE IN PURCHASE OF COMPUTERS

- ■ Approving
- ■ Defining Specifications
- ■ None
- ■ Recommending
- ■ Purchase Formalities

F. PLANNED PURCHASE (NEXT ONE YEAR)

- ■ PCs
- ■ Lan/Data Comm. Equipment
- ■ Software Packages
- ■ Any other_____
- ■ Servers
- ■ Custom Software
- ■ Peripherals

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Acer Sertek Multimedia Kit

A vanilla upgrade kit for SOHO users

Multimedia is in today, and most home PCs have built-in support. But for those that don't, there are upgrade kits like the Acer Sertek. This multimedia upgrade kit contains a quad speed EIDE/IDE CD-ROM drive, 16-bit sound card, AKG microphone, two self-powered speakers and two CD-ROMs. We tried to install the CD-ROM drives after reading the manuals. However, the actual installation procedure differed from the one described in the manual. Luckily, the install software auto-detected the CD-ROM drive, and installed the drivers with the appropriate options.

The sound driver disks also contain utilities such as a clock which speaks the time and a talking calculator. The sound recorder comes with sample sound files and looks like SoundEdit's distant cousin. This was not very useful since the microphone is too weak for an average SOHO setup.

The self-powered speakers are powerful, but produce a fair amount of distortion at higher volumes and quite a bit of background buzz. But at lower volumes, the performance was good enough.

The CD-ROM drive during our tests achieved a transfer rate of 574 kB/sec, as against the 600 kB/sec transfer rate of the Goldstar drive (reviewed in this issue). We did not notice any adverse effects due to the lower transfer rate.

The Media Hunter CD-ROM includes a CD-ROM tester, a video player, a graphic viewer, and a simple shoot-em-up game. The video player and the graphic viewer support multiple formats. However, in order to run anything other than .AVI files, the video player needs an MPEG card. This is odd since anybody with an MPEG card would not need this upgrade kit.

The Voyetra Music Box CD-ROM includes Slidex—a slide show program, a collection of sound files and some applications, that include a MIDI orchestrator. This separates music into different channels and allows you to control each channel.

All in all, a standard package, with somewhat powerful speakers and a high price tag.

Krishna Kumar at PCQ Labs

THE SPECS

PRODUCT: Acer Sertek Multimedia Upgrade Kit

TYPE: Multimedia Upgrade Kit

FEATURES: Quad-speed CD-ROM drive, Sound card, two externally powered 25W speakers, mic, bundled software

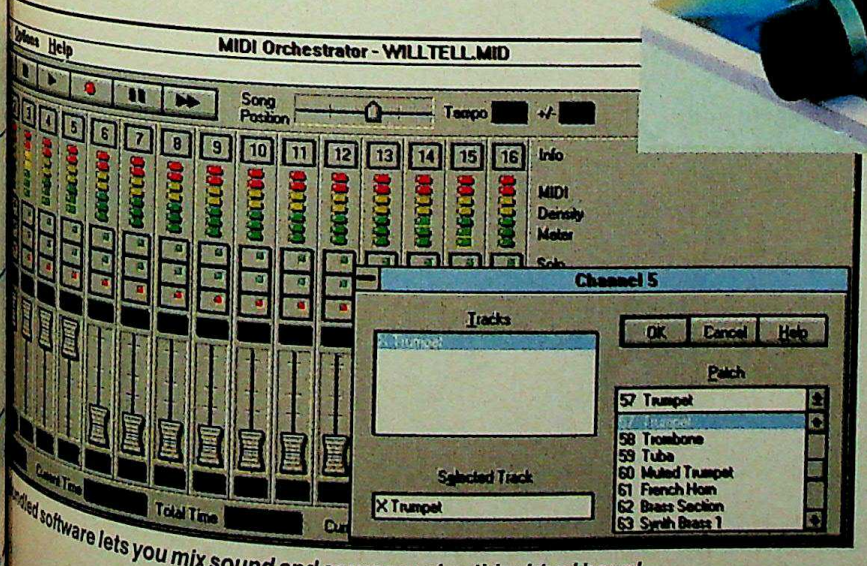
SYSTEM REQUIREMENTS: 386/4 MB (486/8 MB Recommended), DOS 5.0 or higher, Windows 3.1, 1.44 floppy drive, minimum 6 MB free hard disk space, 1 free bay for the CD-ROM drive, 1 free slot for the sound card

PRICE: Rs 15,000

SUMMARY: A standard multimedia upgrade kit, though a bit high priced

VENDOR: Akash Electronics and Software, C-14 Chirag Enclave, New Delhi 110019 Tel: 11-6416003 Fax: 11-6467690

RQS #E0421



Bundled software lets you mix sound and sources using this virtual board

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

GoldStar GCD-R542B

A Windows 95-compatible quad-speed CD-ROM drive

The GCD-R542B is a quad-speed CD-ROM drive from UK-based LG Electronics, manufacturers of the GoldStar range of products. The drive has an enhanced IDE/ATAPI interface with a 256 kB memory buffer. It requires a 486 or higher running DOS 4 or better, with a front-facing half-height drive bay.

On the PCQ Labs' 486DX2/66, the drive gave sustained transfer rates of 600 kB/s. According to the box, the average access time is 190 ms, but this is printed as 160 ms in the manual.

The drive is CD-ROM-XA ready and can read audio, video and text sequentially off the disc. It then synchronizes it at play time. As it is an XA-ready, it also supports the multisession PhotoCD format, so you can use it to view Kodak PhotosCDs.

Installing the GCD-R542B is easy. We just inserted the IDE cable from our test machine's controller card into the drive's interface, connected the power supply, and it was ready to go. If your PC doesn't have a compatible controller card, you can buy the optional IDE controller card. The users manual is adequately detailed. To [illegible] device drivers, you run the program off the accompanying disk.

The drive comes with an audio cable that plugs into your sound card. It also has a two-pin audio output connector at the back for connecting it to a sound board. If you just want to hear your headphones, plug them into the headphone jack on the drive's front. There's even an emergency eject so that you can eject the CD-ROM if the power fails. Play/Skip and Stop buttons are handy when you play audio CDs.

There isn't much bundled software. The GCD-R542B comes with a 3.5" disk that contains the device driver, the MS CD-ROM extensions file, and some software to enable and disable the eject mechanism. Except for this minimal software, the GCD-R542B contains most of what is desirable in a quad-speed drive and performs impressively.

Asawari Kelkar

THE SPECS

PRODUCT: GoldStar GCD-R542B

FEATURES: A quad-speed CD-ROM drive with enhanced IDE/ATAPI interface, CD-ROM-XA-ready, Kodak PhotoCD multisession support. Comes with a user manual, setup disk and audio cable. One year warranty.

PRICE: Rs 6,800 plus taxes

SUMMARY: GoldStar's quad-speed CD-ROM drive lives up to the brand name with impressive performance and an easy installation procedure.

MFR: LG Electronics, UK

VENDOR: Aditya Promoters Private Limited, 4428, Ganesh Bazar, Cloth Market, Delhi 110006 Tel: 11-2511650, 2[illegible] Fax: 11-2931082.

Reader Query Service #E0401

The drive's front panel is simple, with audio play/skip and volume controls

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Video Highway TR 200

TV and radio reception on your desktop

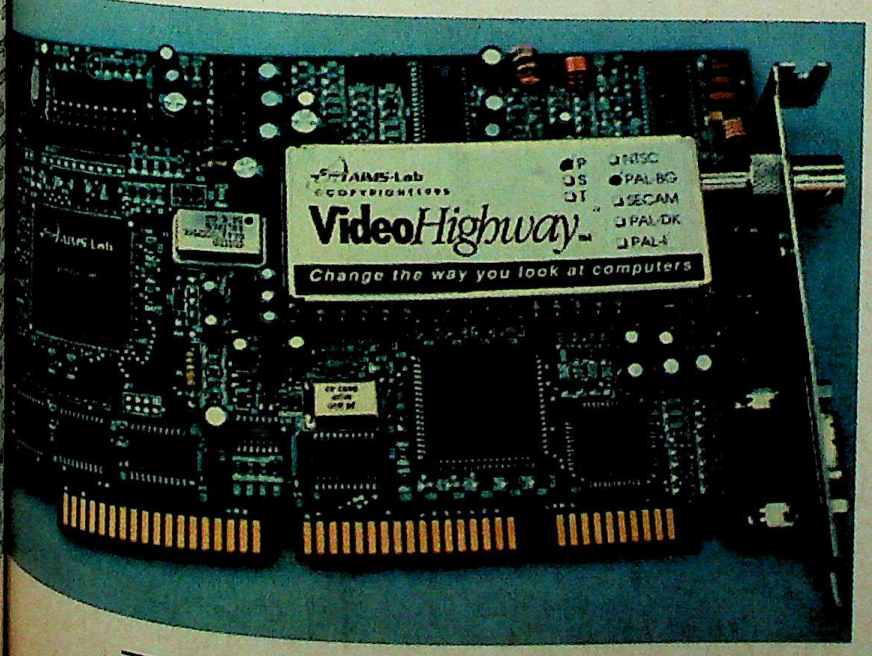
First there were modems that connected your computer to others of its kind through the telephone lines. Next came sound cards to listen to music. And here is the ideal component for those married to their computers, a TV and radio card—the Video Highway TR 200.

The TR 200 comes with a Windows-based software, manuals, and connectors. It even has an internal FM radio antenna, and a pretty good one too. The manuals guide you through the setup, step by step.

Insert the card into a free expansion slot. Next upload the software drivers, and plug in a few connectors here and there. The TR 200 uses a free slot and a VGA expansion slot, usually found on the VGA card. If the latter does not exist one, you will need to replace it with a card that does.

Inserting the card and making the connections was simple. Next came the difficult part of tuning the card to receive the channels. Although the software does have Autoscan to automatically scan for stations and store them, this feature was poorly documented. We tried manually for hours and reread the manual many times before stumbling over this fact.

Grab film stars working and save to a local file



The software is really four separate applications that can be accessed though a single interface. The one for TV reception allows you to see your favorite channel in a window. You can reduce the image to a tiny icon at the bottom of your screen, stretch it full screen or keep it as a small window. The 'Always on Top' option makes it possible to view selected channels even when running other applications. The controls are on a remote control-like pad. You can vary almost all the options as on a conventional TV, including saturation, hue, treble, and bass. You can also program the channel selector for 255 channels across the VLF, VHF and UHF bands.

Unfortunately, it is not possible to capture the TV image using any of the available screen capture programs. To capture the screen, TR 200 grabs a frame and saves it as .BMP or .PCX file.

RadioMan lets you tune in to your

THE SPECS

PRODUCT: TR 200 TV tuner, PAL to VGA converter, FM Radio

REQUIREMENT: 386 or higher with Windows 3.1 or above. One free 16-bit slot, 2 MB Ram, 2 MB free disk space.

FEATURES: Digital video display. Supports 1284x1024 interlaced and non-interlaced (800x600). Also supports freeze-frame, frame grabbing and full motion video in scaleable windows. The scheduler allows programming the auto-preset channel switch for TV and Radio.

PRICE: Rs 22,000

SUMMARY: An easy to install card with high entertainment value and a simple and elegant interface.

MFR: AIMS Labs Inc., 46560 Fremont Blvd # 105, Fremont, CA 94538. Fax -(510)252-1572 **VENDOR:** Destiny Computers, 3B Shivam Chambers, 53 Syed Amir Ali Avenue, Calcutta 700019. Tel 33-2479273, 403560 Fax 33-2471937

Reader Query Service #E0431

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Watch cricket even as you netsurf

favorite FM station. It also allows you to exit and leave the sound on. If you would prefer to be woken up with your favorite channel, RadioMan can do that too. The planner lets you program the time and channel you want. There is no limit to the number of programs that you can set.

The Workshop provides an entire range of utilities to tune your card, VGA colors, alignment and tuner mode.

The picture quality is the clearest possible. The video selection too could do with 'fine tuning'. Since the package does not include speakers, make sure you have them when using a TR 200. Occasionally, while switching between the PIP and to a full screen, the TV window did not always appear in the background.

Despite all the features and utilities that accompany it, the TR 200 still does not qualify for serious studio work. At the price it can be treated as something with a high entertainment value.

Alok Sinha

Continue from Page 112

running, install the AutoSwitch software. For AutoSwitch to operate correctly IPX must be setup as the network protocol. During the AutoSwitch installation either system can be the primary or standby.

Down the primary server, ensure AutoSwitch is working properly. Boot the downed server and ensure that AutoSwitch synchronizes Netware including the mirrors. These can be monitored from the AutoSwitch status line. You are now ready to go.

During our installation, we ran into a few minor problems. Most notably, the setup program does not copy the necessary disk or LAN drivers into the DOS standby subdirectory if they are on a separate path. In this case, the AUTOEXEC.NCF and STARTUP.NCF must be slightly modified for the machine to boot correctly. Also, when we ran into a few interrupt conflicts, the test program, SBCHECK, issued only a single, vague error that failed to pinpoint the culprit.

After we completed the installation, the duplication of data was fairly simple. When the server pair boots, the NLM initializes the StandbyServer 32 adapters and links them together. The standard Netware mirroring tools are then used to keep the data on both machines identical. All the while, a simple interface on the backup monitor displays connection status, CPU utilization, and other statistics.

The cards and cable included with StandbyServer constitute a high-speed link capable of transferring data bi-directionally at the rate of 160 Mbps. Because StandbyServer uses its own link, it does not add extra traffic to the network and transfers data between the servers much faster that standard network cabling.

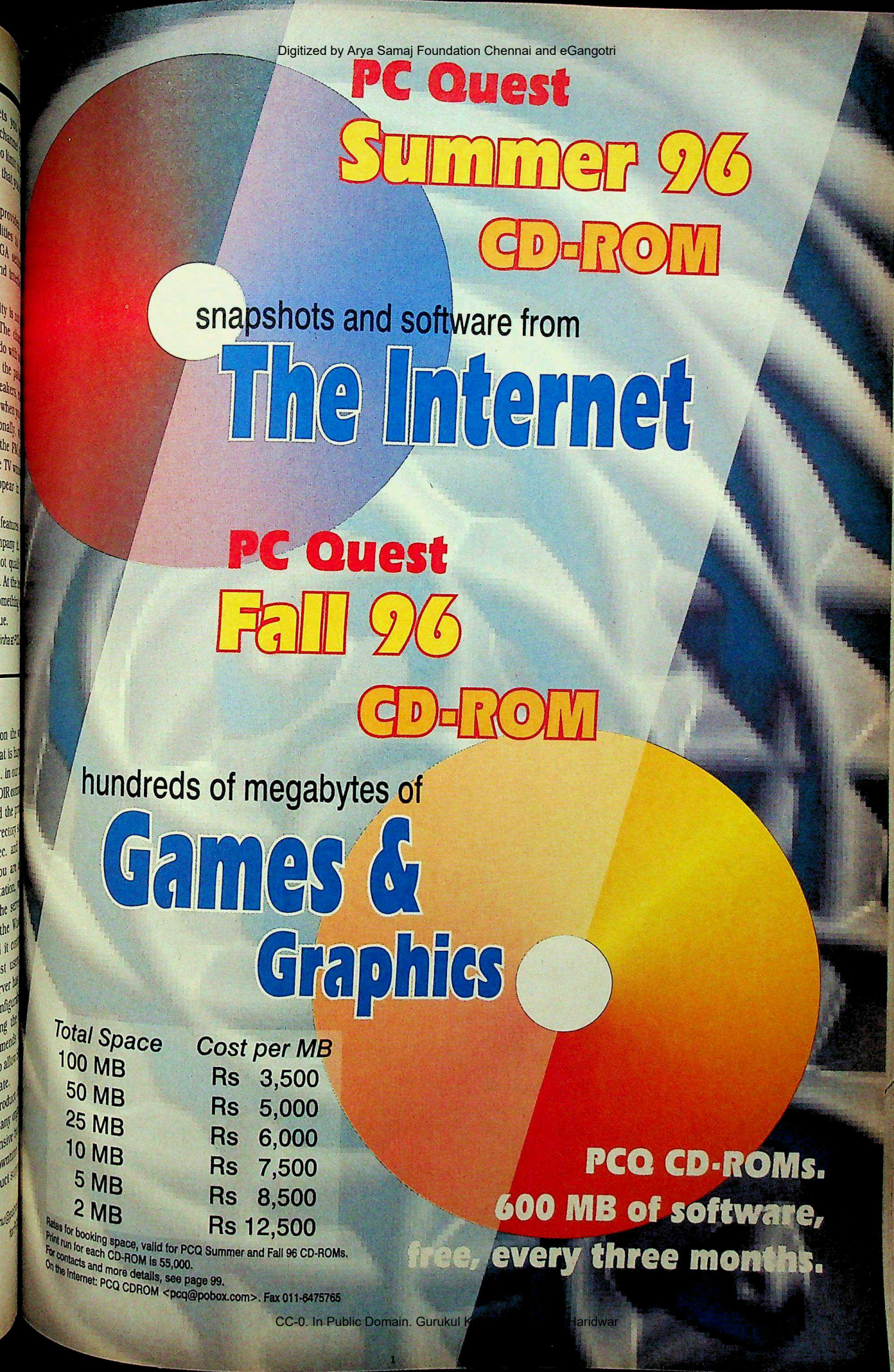
We switched off the main machine to see the StandbyServer 32 in action. The AutoSwitch feature senses the loss of the main server and kicks in immediately. Since the files had been continuously mirrored, this server retained files updated within seconds of the main server's power loss. There is a delay that is noticeable on the stations, if you know what is happening, but it was only 5 sec. in our case. For instance if you give a DIR command from the workstation and the primary server goes down, the directory listing will pause for 5 sec. and then continue normally. If you are running Windows on the workstation and it has been loaded from the server, for instance, you will see the Windows hourglass for 5 sec. and it continues normally after that. Most users will never realize that the server has gone down. This delay is configurable in AutoSwitch, 5 Sec. being the minimum, and Vinca recommends 30 sec. for large databases to allow time to resynchronize or update.

Overall an excellent product which is bound to be a boon to many organization that want an inexpensive and reliable solution to server downtime problems. I just hope the product support is as good as the product.

Atanu Ghose <atanu@ghose.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



CC-0. In Public Domain. Gurukul K Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

3COM FMS 100

Competitively priced, easily set up networking products

3Com was started by Robert Metcalfe, a Xerox PARC scientist, who is also credited with inventing Ethernet at PARC. The company has always provided technologically advanced products including Ethernet cards, and also developed one of the first PC network operating systems "3Open" whose technology was later used by Microsoft, IBM and DEC. MS LAN Manager (now integrated into Windows NT), IBM LANServer, and DEC Pathworks all owe their ancestry to 3Open.

The **Link Builder FMS 100** fast Ethernet hub is a solidly built, highly compatible and very good performer that supports the more popular 100BaseTX standard (as opposed to the 100BaseVG). It's a low profile 12-port stackable and manageable hub that can be configured with an optional downlink port for connecting or cascading with other 3Com hubs or switches.

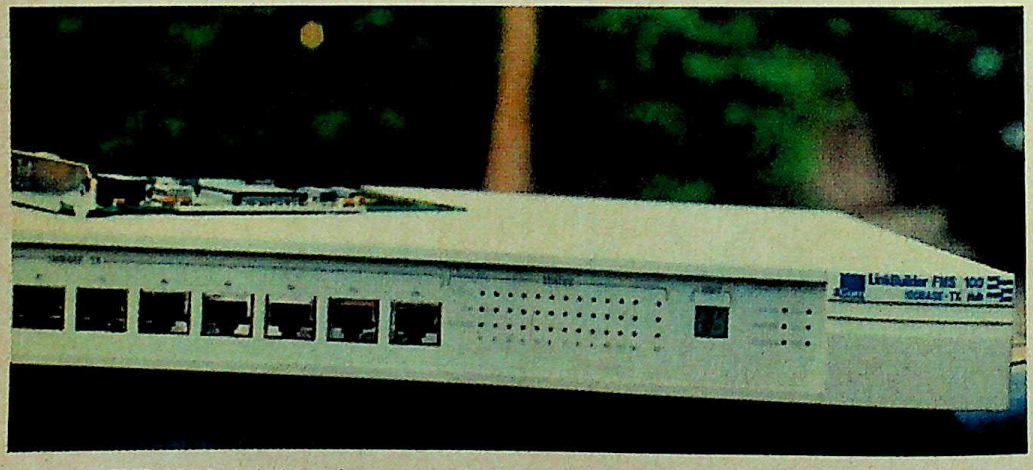
The FMS 100 provides enhanced performance with full 100 Mbps connectivity which significantly boosts transmission speeds. Its stackability is quite impressive with each LinkBuilder FMS 100 hub having 12 100BASE-TX ports and an optional media-flexible downlink port. To achieve high port density at low cost, up to eight hubs can be stacked together and an interconnect port is available to daisy-chain the whole stack.

As a Class I hub, the FMS 100 provides up to 104 Fast Ethernet ports in one unsegmented network. The SuperStack systems architecture allows you to combine other SuperStack devices in one robust, easily managed stack and this is one of its most attractive features, providing the flexibility of chassis-based solutions with the economical upgradeability of stackables. The SuperStack system architecture is flexible enough to accommodate a variety of technologies and wiring types, as well as a Redundant Power System to ensure uptime and flexible backbone connections. A 100BASE-TX Transceiver Module with an RJ-45 connector for Category 5 UTP wiring or a 100BASE-FX Transceiver Module with a 62.5/125µ SC fiber connector permits a wider range of backbone/downlink connections.

For network manageability, the FMS 100 provides add-on SNMP management. The optional LinkBuilder FMS 100 Management Unit is a plug-in mod... to one of the hubs in a stack and ... full SNMP management via 3Com's ... scend applications, which allow ... administer hub ports and adapt... gether as a single system.

LinkBuilder FMS 100 is sca... allowing you to keep your init... Ethernet investment low while e... you to increase port density, e... system reliability, and add SNM... agement. Because they are part o... SuperStack system archite... LinkBuilder FMS 100 hubs can b... grated with a full range of other ... devices, technologies, and serv... one managed stack.

We tested and evaluated the ... along with the **Etherlink III 10 ... Network Adapters**. We e... Pentium/120 server with an Eth... 10/100 PCI network adapter, ... Pentium/90 server with a co... 100BaseT EISA Ethernet ad...



3 Com's FMS 100 hub is based on super stack systems architecture

THE SPECS

PRODUCT: 3Com FMS 100 10... Ethernet Stackable Hub and Et... 10/100 PCI network adapter.

FEATURES: FMS 100 is stackab... manageable and the SuperStack ... tecture allows hub and router s... n-match in one stack. Optional ... port allows cascading. Jum... Etherlink III 10/100 are Plug'n Pla... patible.

PRICE: Rs 137,000 for FMS 100; ... 11,000 for Etherlink III 10/100 PCI ... with software

SUMMARY: Good, well-built 10/... cards and hubs for users look... performance and value-for-money ... to set up, with very good perform... Etherlink III cards give good perform... with excellent compatibility and wi... port for Netware, DOS, Windows ... dows 95 and Windows NT.

VENDOR: 3Com Asia Ltd India, Suite ... Hotel Surya Best Western, New Ra... Colony, New Delhi 110065 Tel 11-6... ext 426 Fax 11-6834662

Reader Query Service #E043

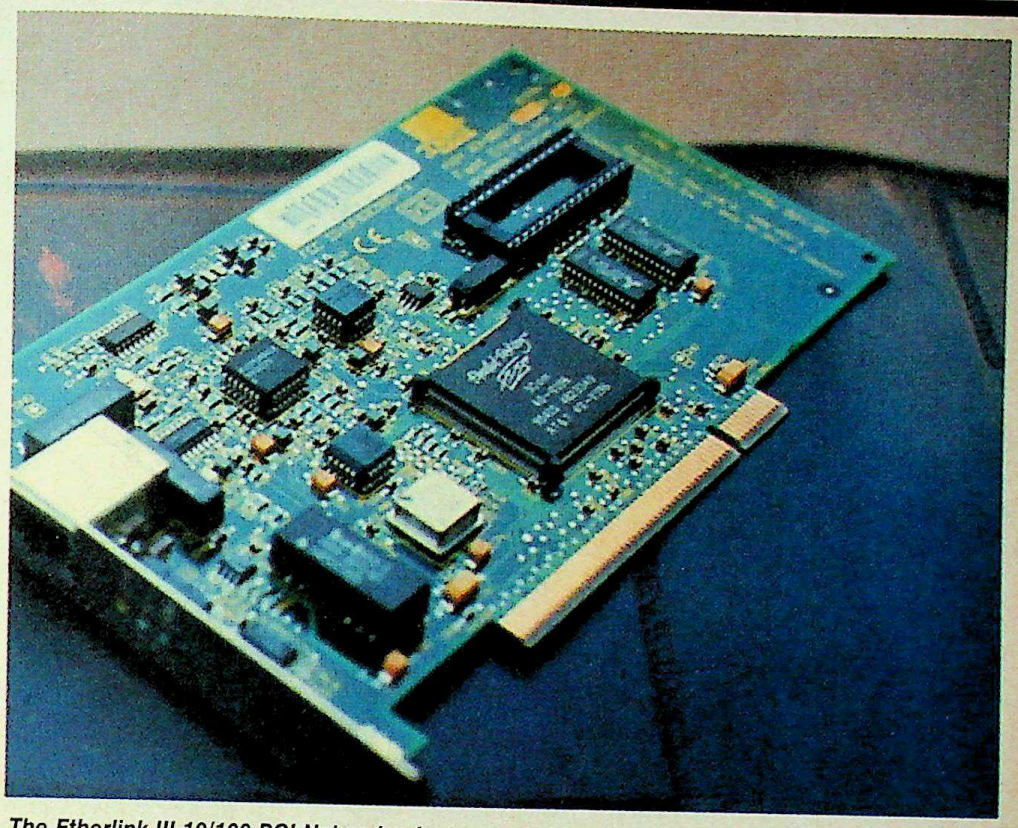
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

workstations with Etherlink III 10/ PCI network adapters. We also used competing 100BaseT hub from the manufacturer that provided the 100BaseT EISA Ethernet adapter. Strangely the competing EISA adapter not work with its stablemate hub but ked fine with FMS 100. Performance good, as were packet handling and ring. We used NetBench 3.1 to deter- performance levels and the results firmed our initial impressions. How- the hubs only provide 100 Mbps s and will not work with 10 Mbps work adapters.

Typically an FMS 100 hub can be bined with an FMS II 10BaseT hub the server with critical nodes con- ed to the FMS 100 and the other es to the FMS II.

stallation of both the 3Com prod- was a cinch. The Etherlink III 10/ PCI network adapter, is jumperless is configured using the EtherDisk are provided with the adapters. The are also includes drivers for all popu- SEs. The cards installed without a lem in Netware, DOS/Windows, Win-



The Etherlink III 10/100 PCI Network adapter card ships with EtherDisk software

dows 95, both Windows NT Server and Workstation, and SCO UNIX. Considering that it is competitively priced, provides very good performance and is easy to set up, these products are excellent value for money. Highly recommended.

Atanu Ghose for PCQ Labs

OBITUARY

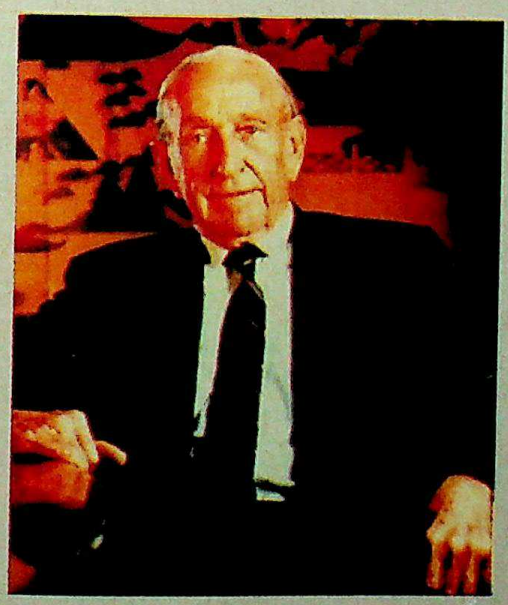
David Packard (1912-1996)

David Packard, 83, co-founder and irman emeritus of Hewlett-Packard, d on March 26 at 11:05 am. He had n hospitalized at Stanford Univer- Hospital since March 16, where he being treated for pneumonia and plications.

David Packard and William Hewlett ted their company in a one-car lifornian garage, which is today a oric landmark; the birthplace of con Valley. Since those days, lett-Packard has grown into a mul- tional enterprise with over 100,000 loyees and revenues of $31.5 bil- in 1995. Its reputation for excel- in product quality, personnel prac- business management and ser- is Packard's biggest legacy.

Packard served as HP's president or irman of the board from 1947, when company was incorporated, till his rement in 1993. He took a leave of ence during 1969-1971 to serve as y Secretary of the US Defence rtment during President Richard 's first term in office.

Packard held 46.6 million shares of



HP, which will be transferred from his estate to the David and Lucile Packard Foundation on his death.

Packard was born on September 7, 1912, in Pueblo, Colorado. He studied radio engineering at Stanford University, where he distinguished himself as a student and an athelete. He founded HP with Bill Hewlett, a fellow student at Stanford University, while both completed work on their master of science degrees in 1939. Their first product, an innovative audio oscillator, was chosen by Disney Studios to develop the sound track for the movie *Fantasia*.

HP could have accepted short-term business contracts from the government during World War II, but Hewlett and Packard chose not to make their company a hire-and-fire operation. They also instituted a cash profit-sharing program and an employee stock purchase plan for all employees. HP's innovative employment and management techniques are widely followed in the business world.

Packard supported engineering education, criticized unbalanced US-Japanese trade and wanted US trade links with East Bloc countries to increase as an aid to world peace.

He was also active in a number of business, educational, professional and civic organizations.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Vinca StandbyServer

An innovative replacement for SFT-III, for NetWare server fault tolerance

THE SPECS

PRODUCT: Vinca StandbyServer 32, backup server software and hardware for Netware.

FEATURES: Auto-switching to backup server. Does not require identical servers. Supports all NLMs and name spaces. Utilizes standard NetWare limit for partition sizes (up to 32 terabytes).

PRICE: Rs. 130,000 for ISA (EISA version Rs. 150,000) including software, adapters, cable and runtime NetWare 3.12.

SUMMARY: Software and hardware for backup NetWare servers. Organization reduces downtime by auto switching to backup server without affecting network traffic or bandwidth. Does not require identical servers, unlike SFT III.

MFR: Vinca Corp, USA.
VENDORS: Microland, Bangalore, 80-211104, Fax: 219668. Computer Point, Delhi, Tel: 11-6863278, Fax: 6862258

Reader Query Service #E0429

We set up our StandbyServer 32 system on a Pentium primary server and a 486DX2/66 backup server, both with 3Com Etherlink III ISA adapters and interconnected to each other with ISA StandbyServer 32 adapters. The two adapters were connected with a high speed, 25-foot cable that runs bi-directionally at 80 Mbps under ISA and 160 Mbps under EISA or Micro Channel.

Installation was fairly straightforward, as long as the steps were followed. Install Ethernet adapters and the SBS32 adapter cards provided along with the package, on both the servers. Connect the SBS32 cards with the supplied high speed cable. Connect the Ethernet (it could even be Token Ring - Did you say "What's Token Ring?") cards to the hub. Install Netware 3.12 on the Primary server. Netware is not required to be installed on the standby server as the SBS package includes a runtime 3.12 for the standby. Good strategy by Vinca and excellent savings for the user.

The package ships with cards for the main and backup servers, interconnect cable, software, and runtime NetWare

Install SBS32 on ... machines, ensure ... have activated ... Mirroring service ... that identically sized ... ware partitions have ... created on both ... Unlike SFT III, in ... the hard disks can ... different sizes, as ... the partitions are ... size and large enough ... hold all your data ... Netware directories ... not create any ... umes on the ... server. Run the ... test utility provided ... the package. This ... the high speed ... the handshaking ... the two servers. ... Once SBS 32 is ...

Continue ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Using VINCA STANDBYSERVER

This cost-effective product is less finicky about hardware than the SFT-III it competes with. Here's how it works

System administrators have nightmares about server crashes because they bear the brunt of complaints from irate users and angry bosses. Companies that require a high uptime for their ers must invest in expensive Fault ant systems such as Stratus or em, or the less expensive clustered ers. But for companies with PC- networks there were few choices. The most popular are Novell's SFT III for NetWare and products such as Sentinel for SCO UNIX.

Now there is a new kid on the block—Vinca Corp. This Utah startup is backed by Raymond Noorda, Novell's founder, and is competing head-on with Novell's SFT III with its Vinca StandbyServer 32 (SBS32).

This product is for administrators who need the safety and protection of a ready-to-use, back-up server but can't afford Novell's powerful but expensive SFT III. The SBS32 provides a reliable and cost-effective alternative with a fair degree of fault tolerance. Using SFT III increases not only software costs but those for hardware as well. For example, if you needed to setup SFT III on a 120 MHz Pentium-based server, with 32 MB RAM, two 2 GB hard disks, DAT drive and CD-ROM, you would have to buy one more system mirroring every aspect of your primary server down to CPU speed and hard disks.

With SBS32, your secondary server no longer needs to mirror the primary server. The disk sizes should be similar and the bus types must be the same, but the disks themselves can be different models using disparate interfaces. You can even use a Pentium primary server and a 486 as the backup server, depending on the performance and features required.

SBS32 is a 32-bit NLM rather than a DOS TSR, with faster adapters and a runtime version of NetWare 3.12 included. SBS32 uses NetWare's disk-mirroring feature to duplicate your server's data on a second machine via a high -speed link. It also allows you to constantly mirror the network data across this high-speed link to a standby machine. When the main server fails (or is under routine maintenance), the standby machine can in seconds transparently takeover network

What's A StandbyServer?

a Corp's StandbyServer 32 is a server ing system. It lets you connect a backup er directly to the main file server. Data is inuously mirrored to the standby machine high-speed cable.

hen the main server fails, the network freezes few minutes while the backup server goes s, and then users resume working. Netware thus have auto-recovery from any single s, software or hardware. (Some 70% of server s are reportedly due to software glitches.) another Vinca product, SnapShotServer, can the backup server to allow the backup of s files and live databases from the backup , without affecting network performance. nca StandbyServer is similar to NetWare's A, but it does not demand identical servers, lower-end machine can be used as the p server. The backup server can even e as a router or a print server.

StandbyServer 32 is a real-time disk-mirroring system with no latency, not a file copy system. Mirroring takes place over the Vinca cable, not over network wiring, so network traffic is not affected. Primary server failures are detected on the standby machine over the Vinca link. StandbyServer then verifies the failure over the network before auto-starting the standby machine. Users can log back on to the standby machine using the same user name and password as soon as the NetWare volumes are mounted.

Another product, Campus StandbyServer (about $5,000 with FDDI cards), uses a fiber-optic FDDI link to allow the standby machine to be located off-site—even in another building. It otherwise functions similarly. (A competing product is MiraLink's OptiSpan, which also mirrors servers across fiber links.)

More information: http://www.vinca.com/

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Take the first step in your switch to the CD-ROM future

A leading publication diversifying in the field of CD-ROM titles requires the following key people at Delhi :

Profit Centre Head : The incumbent should be a person with creative potential and demonstrate profit centre management skills. Should have adequate exposure to product launch/start-up operations. Candidate should be an Engineer with some experience in the field of publishing/ Multimedia. 6-10 years' experience in related field is desired. MBAs would be preferred.

Marketing Manager : The position entails development and implementation of a marketing strategy, sale of CD-ROM titles and liaison with sponsors . The aspirant should have strong leadership qualities and demonstrate good technocommercial acumen. 3-6 years' experience in relevant/ related field is desired . MBAs would be preferred.

Operations Manager : The incumbent will be responsible for the design of CD-ROMs. The aspirant should possess creative potential with an ability to work on multimedia authoring tools. Candidate should be an engineer with a software background. 3-6 years' experience in relevant field is desired.

Remuneration package would be comparable to the best in the industry.

Send in your resume within 7 days to :

PCQUEST, P.Box No PCQ/APR/1, D-74, Panchsheel Enclave, New Delhi - 17

ANNOUNCEMENT

Keeping up its trend of furnishing the latest in the infoworld to its readers, P C Quest will now bring out four special issues in the year 1996-97. These special issues will be accompanied by a CD ROM and will bear a cover price of Rs 50/-. the other normal issues will retain the usual price tag of Rs 25/- only.

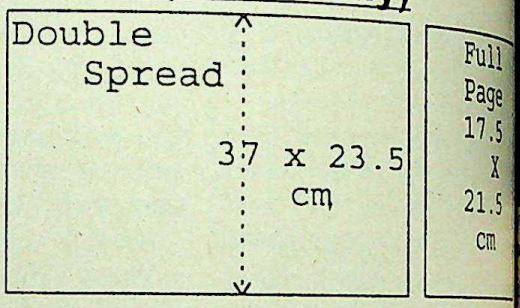
Editor

GRAB THE BEST TALENT IN THE INDUSTRY ADVERTISE IN

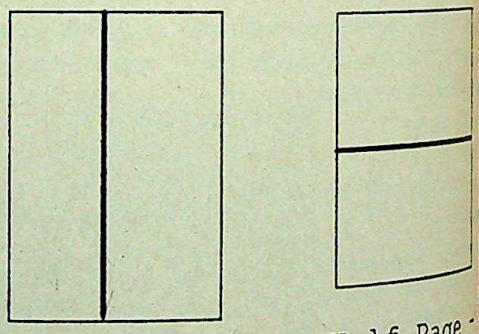
PC QUEST

APPOINTMENTS SECTION

Rates (B&W only)



Rs. 40,000/- **Rs. 18,00**



Half Page - VERT 8.5 X 21.5 cm

Half Page - HORIZ 17.5 X 11.5 c

Rs. 10,000/-

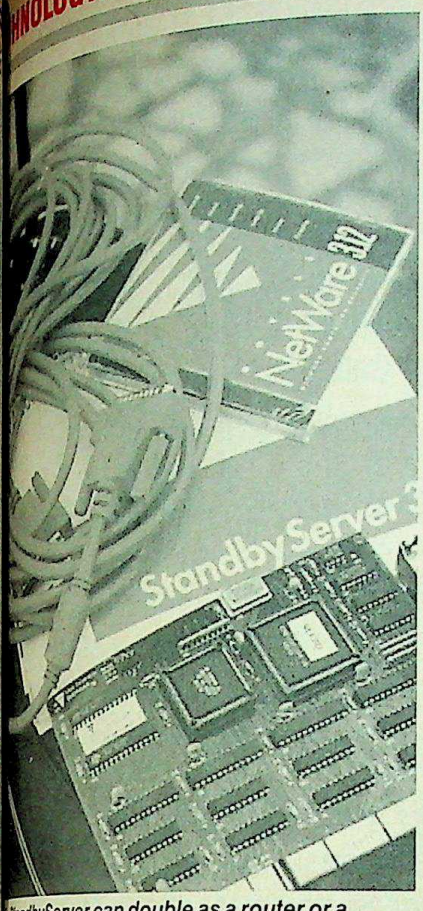
FOR FURTHER DETAILS CALL OUR AD EXECUTIVES AT :

Bangalore : 556 8238 / 557 9362 **Calcutta** : 247 1285 **Delhi :** 641 3815 / 641 1692 **Hyderabad :** 84 9123 / 84 6501 **Madras** : 45 9498 **Mumbai :** 640 4295 / 642 7910

TRUST US TO GET YOU THE BEST !

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



StandbyServer can double as a router or a

ns with a complete, current copy
etwork data.
e SBS32's mirroring system also
es data access by duplicating
server components such as the
ssor, RAM and network cards. It
provides increased data redun-
by duplicating data. In the event
your primary server fails (and the
becomes completely inaccessible),
standby machine is ready to take
within moments as the production
complete with updated data.
e standby server's disks can be of
pacity accessible by NetWare.
er, the drivers (.DKS) for the
r disk devices must be compa-
with NetWare. There also must be
h disk space in the standby mac-
mirror the data from the primary
The NetWare partitions sizes
also be identical. If these are in
sizes, and assuming that the
partition does not have NetWare
s on it, NetWare will decrease
er partition to match the smaller
making the extra space inacce-

e StandbyServer is compatible
NetWare, so are its requirements
rroring options. You don't have to mirror all your NetWare data, just those partitions containing organization-critical data. In order to make the switch over as easy as possible, make sure the SYS is on the mirrored partitions.

SBS32 supports a maximum of 31 disk devices in the standby machine. While for lower-capacity systems, ISA cards should be sufficient, Vinca recommends using 32-bit standby cards with high-performance systems.

The new AutoSwitch feature enables the standby machine to automatically become the main server. This cross-over takes only a few moments and prevents your network from collapsing even when unattended. If the connection fails, AutoSwitch checks the network wiring to locate the main server. If this second check fails too, AutoSwitch assumes the main server is down and automatically starts the standby machine. This feature can be disabled, if desired, when performing routine maintenance.

Often when the main server fails, this occurs in an improper or abnormal manner and can cause problems such as holes in FAT tables or mismatched directory entries. AutoSwitch auto-detects if all the volumes on the standby machine are mounted as it is brought up. If there are problems, a built-in utility automatically runs VREPAIR (a standard NLM) as often as needed to properly mount all volumes properly without manual intervention.

Performance Improvements

StandbyServer 32 increases network data I/O performance. Because it has dual controller cards (one in each server) and duplicate drives, you can expect a performance increase similar to what you would get by duplexing in the primary machine. With more data paths the network has quicker data access. And if you are already duplexing your primary machine, just take one controller and drive from it and install them into the standby to add an extra level of data accessibility to your already redundant system.

NetWare mirroring runs at the speed of the slowest device in order to keep the devices synchronized with one other. Consequently, the disk controller in the standby machine has a greater impact on performance than the speed of its processor. The data transfer rate of the SBS32 adapters is so much higher than the hard disk/controller combination, that the overall disk I/O performance is dependent more on the disk controller and system bus used. Use of slow disk devices or disk controllers will cause bottlenecks that degrade overall performance.

The 32-bit StandbyServer cards have sufficient bandwidth for use with high-speed disk devices. The application running on the standby machine —STANDBY.NLM—requires CPU cycles. The more it has, the better it performs. A 386/33 MHz gives good performance on a moderately used network. For a network with heavy traffic, get a faster machine. But remember, the disk controller speed has a greater impact on performance than that of the processor

The cards and cable included with StandbyServer are a high-speed 160 MBPS link for bi-directional data transfer. Because StandbyServer uses its own link, it does not add extra traffic to the network and transfers data between servers much faster than standard network cabling.

System Requirements

Primary Server: Any PC tested and approved by Novell Labs or a standard NetWare server, plus the hardware and software included in the StandbyServer package are all you need, Novell approved LAN adapter(s), StandbyServer card and cable (supplied). The StandbyServer application must be installed on the primary server.

Standby Server: This must have the same hardware as the primary server, but does not have to be identical. It must be connected to the primary server through an IPX connection when running StandbyServer 32 with AutoSwitch. The standby machine must also be capable of supporting the version of NetWare being used on the primary server.

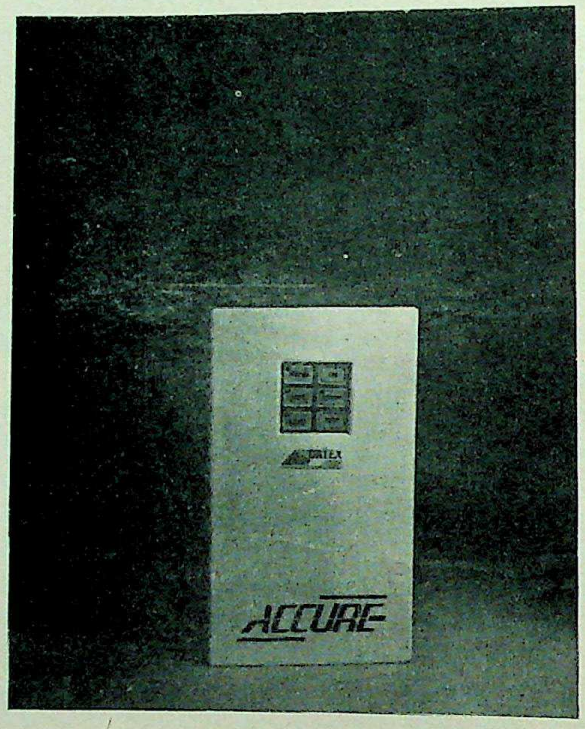
Atanu Ghose <atanu@pobox.com> is Joint Director R&D for Modi Olivetti

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ANYONE WHO COMES TO INDIA, LEARNS TO LIVE ONLY ONE WAY -

The Indian way.



ACCURE
the high performance line-interactive UPS
available in 200 VA to 2000 VA ranges

Liberalisation. International Technologies tinationals. The boom for the Indian m is on. But ace global marketers are realising that no other theory, study ample works in a country like ours. our own rules. And those who adapt become a part of our society. The M did. The British did not. And had to, as know, depart.

At a time like this, we at Datex Electr strive to combine the best internationa nologies with Indian conditions. Thu designed the **Accure** range of UPS, works under severe Indian conditions.

Accure:
- works at voltages as low as 150 volts
- has less than 2 milisecond switchover
- is used to frequent voltage fluctuations
- gives you the options of larger back-
- comes with a 2-year warranty;

All the above features have been teste IIT, Delhi, under stringent conditions. wonder then, that ICI, DCM Daewoo Nokia & a host of other companies **Accure**.

All this is because we combine the technologies to suit Indian conditions we go - the Indian way.

For more thought-provoking information Sameer or Pawan at 462 1931 or 462 Or contact them at the address below

DATEX
Datex Electronics Pvt Ltd

T-1512/1 Bhism Pitamah Marg Opp. Sachdeva P T College Defence Colony, New Delhi - 110 003. Fax: 46
● Bangalore ● Calicut ● Cochin ● Coimbatore ● Trivandrum.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

asty Bits From he Technology Front

One User's Story

week I gave up on ISDN. I had ing the high-speed digital ser- more than a year.

's the long and short of it: ISDN lishly hard to set up, it's tedly expensive, and it's not as you think it's going to be. The problems are not exactly news, S users are curiously reluctant to the third.

ead many accounts that mirror erience in getting ISDN service working. It took me a full three from installation to trouble- ration. (To be fair, it might have d quicker if I had any time an nights and weekends to the problem.) The issues turned be a combination of (1) a bad terface box (don't call it a "), replaced by a good one that misconfigured; (2) the vintage Mac operating software; and (3) p of the phone line. All problems cerbated by the inability of the support people I talked to DN." The best were the folks de the interface box; the worst question were the local tele- nctionaries. My access supplier ewhere in the middle.

n I first got ISDN service, I the line from NYNEX and signed PSI Interramp, a nationwide December 1994, there were few ywhere who supported dialup PSI did; and they supported sh clients, which was rare at and they offered a bundle of e hardware and software, a way to get started. (The hard- ware, called QuickAccess Remote, was made by AccessWorks, a New Jersey company soon thereafter acquired by 3Com.)

ISDN's dirty little secret: the service promises up to 128 kbps bits per second over two so-called B channels—almost nine times as fast as the 14.4 kbps modem I had been using. (In late 1994 standard 28.8 kbps modems were not yet available.) The actual throughput I saw was far lower for a number of reasons. First, PSI at the time supported only a single B channel—as did the AccessWorks box—so right away the potential bandwidth dropped to 64 kbps. NYNEX has limitations in line quality on a sufficient number of segments that they can only offer 56 kbps over a B channel. My Macintosh, not exactly a state-of-the-art machine any more, couldn't support above 56 kbps out a serial port even if NYNEX could. Finally, bandwidth is only the last in a long chain of factors that determine how fast the bits pour or trickle out of my end of the wire. The fastest performance I ever saw was about 44 kbps bits per second during a long download in the dead of night. Typical performance was just about indistinguishable from that of a 28.8 kbps modem.

Cost was another surprise: ISDN costs vary wildly across the US for 100 hours or full-time (so-called "nailed-down line") usage. A resident of Arkansas would pay $17.90 per month in either case. Someone living in Indiana would pay $315 per month for 100 hours. An Oregonian would pay an astounding $1,950 per month for a nailed-down line. During most of 1995, I was online from 10 to 15 hours per month, almost all of it night and weekend time, and my monthly ISDN bill ran between $150 and $180. It works out to about six cents a minute.

An addictive feature of ISDN is the speed with which one connects to the Net through an ISP. Connecting using an ordinary modem and phone line takes anywhere from 30 to 45 seconds. With ISDN the connection completed within five to seven seconds of hitting the "dial" button. I'll miss the fluidity, the sense of seamlessness between online and offline, that this speed imparted.

On February 11 Microsoft unveiled a major ISDN initiative. You can visit the "Get ISDN for Microsoft Windows" Web site (`http://www.microsoft.com/windows/getisdn/`) and download software for native Windows 95 ISDN support. Through alliances with telecom companies and hardware suppliers you can, in theory, order ISDN service and interface hardware directly from the site. (When I tried just now I got the message "Unable to view list of ISDN providers because information about ISDN service in your area is in the process of being added to our database... Please check back in a week or two..." Remember, ISDN has been available here for 17 months.) For further education about ISDN the best starting point is Dan Kegel's ISDN page (`http://alumni.caltech.edu/~dank/isdn/`).

Full US Phone Book Online

First there was Four11 (`http://www.Four11.com`); then there was WhoWhere (`http://www.whowhere.com/`); then a half-

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

dozen others. In the same way that Alta Vista (http://www.altavista.digital.com/) trumped the full-text, full-Web search engines, SwitchBoard (http://www.switchboard.com/) has trumped the people-finding Web pages.

This site gives you free access to the 90 million personal and business listings in the Database America CD-ROM; and you can write to it too. The site certainly raises disturbing questions of privacy. My phone number and address are visible to the greater Internet, until and unless I visit (http://www.switchboard.com/), register with them, and change my listing.

There's worse. As far as I can see there is nothing to stop me from searching for "Patrick Buchanan," picking on the candidate's listing to say "that's me," giving an anonymous e-mail address, receiving a password there, and then adding insulting and libelous material to Mr Buchanan's SwitchBoard listing.

Essential Tools

This occasional TBTF feature profiles on-Net resources that I've found useful in developing Web content, or in keeping an eye on Web standards and trends. The full Essential Tools collection is available on the TBTF archive (http://www.atria.com/~dawson/tbtf/essential-tools.html).

Image Services: A service that applies various effects to an image you submit is available without using FTP—for any image visible on the open Internet—from Visioneering Research Laboratory (http://www.vrl.com/Imaging/). This site has the added benefit that it lists (http://www.vrl.com/Imaging/others.html) other sites offering related services. Several sites will render a GIF image transparent—here is one that will do so in 10 languages (http://www.inf.fu-berlin.de/~leitner/trans/english.html). The MapMaker site (http://www.tns.lcs.mit.edu/cgi-bin/mapmaker) generates a map file for any image on the Web. The Interactive Graphics Rendering page (http://www.eece.ksu.edu/IGR/) images lines, icons, etc. with user-chosen attributes and lighting. Thanks to Tom Parmenter for putting me on this trail.

Publicly Accessible Mailing Lists: The referenced issue (http://www.atria.com/~dawson/tbtf/archive/02-27-96.html) introduced a Web page (http://www.neosoft.com/internet/paml/) that provides a searchable index to some 1500 mailing lists. The Scout Report for March 15 alerted me to site (http://www.webcom.com/impulse/list.html) run by Bob and Varda Novick called "E-mail Discussion Groups/Lists—Resources." This site provides information about using each of the most commonly used software packages for managing e-mail lists—Majordomo, and Listproc. The also links to other mailing list tions and search engines; among them is Liszt (http://zt.com/), which lists over mailing lists managed by Internet hosts.

Java Security Concerns

On March 5 the Computer gency Response Team issued advisory CA-96.05 regarding rabilities in Java and JavaScript ussed in previous issues. On the office of IS Security for Research Laboratory advised tary personnel not to use Netscape until the problems were fixed. Sun had already issued a patch Java vulnerability; while Netscape promised a version 2.01 of that addresses the JavaScript rabilities. It is not available writing.

Hanging Up The I-Phone

On March 4 a group of long-distance carriers petitioned the Federal unications Commission to panies from selling software ware products that enable Internet for long-distance handful of companies sell mostly in the $50 range, for pose; the free software is plentiful (http://rpcp.mit.edu/main.html) (http://www.northsavetz/voice-faq.html)

At first glance these tools like much of a threat to long-distance carriers. The Internet phone connections is poor and they are subject to liability that characterizes loaded Net today. Also, the software packages aren't you can only talk to someone the same software you do. puts the current number at 20,000 according to a story *Boston Globe*.

The FCC has moved with cteristic speed in scheduling comment on the questions; rule-making commonly sits months without action, but

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ACCORD

COMPREHENSIVE ACCOUNTING SOFTWARE

General Ledger, Sales & Purchase, Inventory, Manufacturing & MIS

Simply Better !

- Completely On-line & Integrated up to Balance Sheet
- Comprehensive Document Printing - Voucher, Receipts, Payment Advices, Bills, Challans & Orders
- Full featured Order Processing with fully / partially outstanding Order Register for Purchase / Production Planning
- Opening Documents - Sales & Purchase Bills (with Money and / or ST Form Due), Receipts, Payments, Debit Notes & Credit Notes
- Bill by Bill Adjustment among all types of Documents
- Special MIS Reports for Transaction & Party / Product Analysis, ABC Analysis, Cash Flow, Funds Flow, Interest Calculations, Expenses Audit
- Sales Tax Register with user selected Columns & ST Form Analysis
- Easy-to-use Checklists for all Documents
- Query Reports with ZOOM down to Document level
- User defined printing formats for Sales Bills (Excise Billing) & Account Confirmation
- Formula based BOM and Production Log entry with Rejection & Production Loss computation to give powerful Contractor-wise Analysis & Production Centre Analysis
- Intelligent Transaction Tracking & Renumbering by Voucher Series
- Compressed Backup with verified write & diskette signature
- Quick & Easy to install & operate
- Low Conventional Memory requirements
- True Multi-User (LAN) Version available on DOS 3.11 & above
- Multiple Concurrent Financial Periods with inter-period utilities
- Comprehensive User Reference Manual

EDP Corporation

216/2H, AJC Bose Road, Calcutta 700 017
Phones : (033) 247-7147, 40-8776 Fax : (033) 40-8776

DEALERS Ahmedabad, Bombay, Calcutta, Cochin, Goa, Guwahati
New Delhi, Patna, Raipur, Ranchi, Siliguri, Surat, Vizag and Kathmandu

DEALERS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

days the agency had set an April 8 date for comments.

Who's Who In Cryptography

Kevin McCurley, one of the perpetrators of DigiCrime (http://www.atria.com/~dawson/tbtf/archive/12-31-95.html), maintains a page (http://www.digicrime.com/~mccurley/cryptographers.html) of links to the home pages of crypto researchers. The last time I visited, 72 were listed.

Apple Server Unbreached In 45-Day Challenge

Between October and December 1995, six Macintosh Internet companies offered a $10,000 prize to anyone who could read one protected line from a particular public Web page; the target was secured only by off-the-shelf Macintosh software (Star-Nine's WebSTAR server and NetCloak, a CGI application from Maxum Development). The goal was to raise awareness of the Macintosh server as a highly secure Web platform. The results (http://www.dartmouth.edu/pages/TidBITS/issues/TidBITS-317.html#s5) of the challenge were published in TidBITS. Bottom line: no one collected.

Followup on JavaScript flaws

Responding to the publicity about security holes in Navigator 2.0 resulting from the JavaScript language implementation, Netscape has promised to fix at least two of the three outstanding problems in a release 2.01 due out this week. On February 29, Brendan Eich posted a response (snews://secnews.netscape.com/31367495.7AAE@atm.mcom.com) to the security concerns. (You will need the Netscape browser to retrieve this URL.)

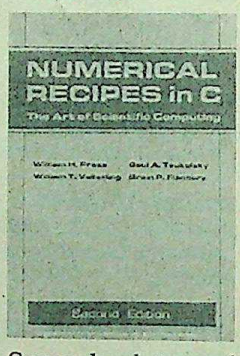
Another Java Hole Fixed

On February 18, Drew Dean posted a note (http://www.cs.princeton.edu/~ddean/java) to the Risks forum detailing the findings of a group of Princeton researchers. They had discovered a flaw that would allow a Java applet, after separate subversion of the Domain Name System, to make an arbitrary network connection. Sun responded quickly and prepared a patch (http://www.netscape.com/comprod/mirror/java-patch-download.html) for the affected platforms, Win 95, Win NT, and several flavors of Unix. Sun's response is at (http://www.netscape.com/newsref/std/java_security.html).

The Effects Of A Software Patent

In December 1994 Compuserve served notice that it intended to enforce a patent covering the GIF graphics format. GIF was, and is, the most widely used compression method on the Web. Michael Console Battilana wrote a history and analysis of the resulting controversy. Recently Greg Aharonian's Internet Patent News Service carried Revision 3 of Battilana's history. Aharonian's mailing list chronicles the increasing prevalence of nuisance lawsuits arising from dubious patents issued with scant regard for the prior art.

The Effects Of A Software Copyright



Harry George decided to re-implement the classic Numerical Recipes algorithms in Modula-3, and found that a software copyright can be just as thorny as a software patent. Some background:

"Numerical Recipes: The Art of Scientific Computing" is a series of books published by Cambridge University Press beginning in 1986. The books, and software to correspond, are available for a variety of computer languages: initially C and Fortran, more recently Basic, Pascal, and Modula-2.

Modula 3 is a modern computer language that shares many design goals with Java. It descends from Mesa, Modula-2, and Cedar, and resembles Oberon and Euclid. Its features include objects and classes, exception handling, garbage collection, lightweight processes (threads), and the isolation of unsafe features. Its adherents swear by it. George writes: "I am typcally an order of magnitude faster in M3 than in C, Lisp, Ada, Perl, C++, or (god forbid) COBOL, Fortran, or Assembler. (Java at least has similar semantics, but the syntax is a mess.)"

George posted about the project and his progress to the Usenet newsgroup comp.lang.modula3 and kept the in-progress on his Web site. Some into the project he contacted people about the work, suspecting there might be some copyright Indeed there were. He was told only legal way to proceed with would be a "clean room" approach involving a collaborator who had been exposed to the NR books. To Olly Stephens for alerting me to story.

Network Security Scanners

This class of software tools the exclusive purview of system administrators wearing pointy gained wider attention last April the free public release of a tool SATAN (Security Administrator for Analyzing Networks)–an event got one of its inventors, Dan Farmer, fired from Silicon Graphics. He immediately picked up by Sun, to analyze an Internet host or a network and report on possible security vulnerabilities.

Since last year several commercial scanners have come on the market and in a posting, *PC Week* reviewed Internet Scanner 3.2, PingWare and NetProbe against the now-venerable freeware SATAN. A pointer to this came across the security alert mailing list included in the TBTF Security Tools collection. Internet Security System's Internet Scanner 3.2 came out on top in this review.

Comparative Review of Web Search Engines

Cnet Online reviews ten search engines and nine search multipliers (which they call meta-search engines), thanks to Don Rota for pointing this exhaustive review is a good starting point for someone with no experience as to which engines might be useful for what kinds of searches.

A New Lawsuit Against The CDA

On February 26 the Citizens Internet Empowerment Coalition (CIEC) filed court action to block the Communications Decency Act. The federal suit quickly consolidated this new suit with the original suit filed by the American Civil Liberties Union and

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ments after President Clinton signed
telecommunications reform bill that
tains the CDA. Testimony before
adelphia Federal court will begin
March 21.

The CIEC is coordinated by the Cen-
for Democracy and Technology,
erica Online, the American Library
sociation, and others including Peo-
for the American Way. (Twenty-four
intiffs, including Microsoft, Apple
mputer *Wired* magazine and an
ditional 17 members of the CIEC are
olved in this suit.

ot It Red

s a plaintiff in the CIAC lawsuit
above), Microsoft favors individual
trol of what people see on the Inter-
as opposed to government man-
e. Microsoft announced on February
that the next version of its Internet
lorer browser will support a volun-
content rating system called RSAC-I.
system will let parents and teachers
k a computer's access to Web sites
ed on criteria such as nudity, viol-
e, or sexual themes. (The ratings
em was developed by the Recrea-
tional Software Advisory Council.)

RSAC-I is one of a number of rating schemes built on the industry-defined Platform for Internet Content Selection, or PICS, which is supported by the World Wide Web Consortium and a group of 22 online firms. Upon learning of the PICS rating system one frequent poster to the Cypherpunks mailing list, Lewis McCarthy, just had to use it to paint his page scarlet:

"I couldn't resist the temptation. I rushed out and rated my home page as evil incarnate, at least according to the SafeSurf rating system. No innocent rugrats are gonna be learning anything about my work in crypto and symbolic computation on the web!"

McCarthy's home page is now flagged thus to any browser that honors the SafeSurf ratings:

Recommended Age: Explicitly for Adults Profanity: Explicit and Crude Heterosexual Themes: Explicit and Crude or Explicitly Inviting Participation Homosexual Themes: Explicit and Crude or Explicitly Inviting Participation Nudity: Explicit and Crude Violence: Encouraging Personal Participation, Weapon Making Sex Violence and Profanity: Explicit and Crude Intolerance: Advocating Violent or Hateful Action Drug Use: Soliciting Personal Participation Other Adult Themes: Explicit and Crude or Explicitly Inviting Participation Gambling: Providing Means with Stakes

If you would like to paint your own page with a scarlet letter, put the following code directly after the <HEAD> statement of your HTML document:

```
<META http-equiv="PICS-Label" content='(PICS 1.0 "http://www.classify.org/safesurf/" l r (SS~~000 9 SS~~001 9 SS~~002 9 SS~~003 9 SS~~004 9 SS~~005 9 SS~~006 9 SS~~007 9 SS~~008 9 SS~~009 9 SS~~00A 9 SS~~100 1))'>
```

Thanks to Peter Langston for forwarding the scarlet letter.

By Keith Dawson on the Internet, TBTF focuses weekly on bellwethers in Computer and comms technology. Archived at http://www.atria.com/~dawson/tbtf/. To subscribe send the message "subscribe" to tbtf-request@world.std.com. Commercial use prohibited. Reproduced by arrangement with Keith Dawson.

Now That You Can Buy The Same
Colour Monitors
That IBM*, Olivetti* & Apple* Buy,
Why Buy Anything Else !

Yes. Now KINETIC MERLIN COLOUR MONITORS give you access to the same International Class in India with GOLDSTAR TECHNOLOGY

Now, you too can get the same quality, the same dependability.

★ 0.28 mm DOT PITCH.
★ DPMS mode for reduced power consumption.
★ 1024 x 768 Resolution

■ *One full year warranty.*
■ *MODVAT benefits*

SO DEMAND THE WORLD-CLASS
KINETIC MERLIN COLOUR MONITORS !
* Registered Trademarks for the respective companies

Write to us for more details :
KINETIC ELECTRONICS
A DIVISION OF KINETIC ENGINEERING LTD.,
D-1 Block, Plot No. 18-2 Chinchwad, Pune 411 019.
Phone : 091-212-775841/2, 774301, Fax : 091-212-775843

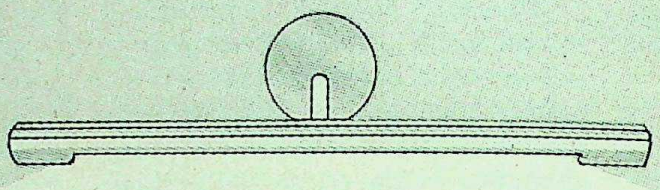
002/96

FOR ENQUIRIES CONTACT: Kinetic Electronics ■ PUNE : Ph.: 325246 ■ BANGALORE: Ph.: 5091036 ■ NEW DELHI : Ph.: 6227973.
●Ahmedabad : ★ BN Computer Consultancy, Ph. : 6631413 ★ Scan Computer Consultancy, Ph. : 5324539 ★ Rainbow Computer System, Ph. : 336414
●Bangalore : Geeta Electronics, Ph. : 3341351 ● Chandigarh : Perfect Computer System, Ph. : 772840 ● Delhi : Radiant Power
●Indore : Veltronics, Ph. : 430194 ★ Interface, Ph. : 533337 ● Jallandhar : D Plus Computers, Ph. : 255281 ● Kanpur : Swati Datatech Pvt. Ltd., Ph. : 210130/31 ● Madras
●Pune : Westind Integrated Systems Pvt. Ltd., Ph. : 621730 ● Surat : Zee Vision, Ph. : 474463 ● Vishakapatnam : Hillar Computer Exports Pvt. Ltd., Ph. : 567648

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AWARD WINNING WORK OF ART FOR LESS THAN RS. 10,000

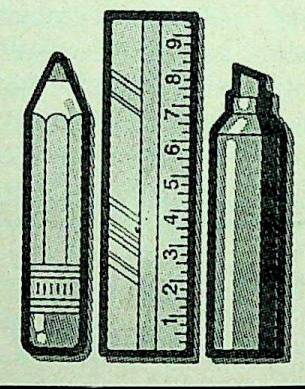


MICROGRAFX

WINDOWS Draw

"Fun, Fast & Friendly.

LICENCE FEE Rs. 5,000/-

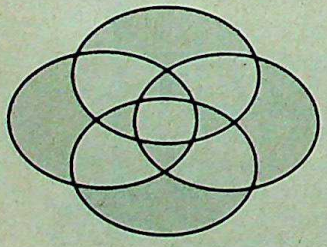


MICROGRAFX

GRAPHICS WORKS

"All in one-Drawing, Charts & Graphs, Photo editing, slide show."

LICENCE FEE Rs. 10,000/-



MICROGRAFX

SNAPGRAFX 2.0

"Creates great looking diagrams, Instantly."

LICENCE FEE Rs. 7,500/-

MICROGRAFX

CRAYOLA

"Creates Tons of fun for Preschoolers."

LICENCE FEE Rs. 5,000/-

Softek Limited : M-42, Commercial Complex, Greater Kailash-II, New Delhi-110048. Ph : (011) 641-5312, 6482681, Fax : (011) 648-2680

REGIONAL OFFICES:

- 3rd Floor, Raja Rajeswari Towers, 29-30, Dr. Radhakrishnan Salai, Madras : 600004, Ph. (044) 825-8804, 824-0971
- Shyam Kamal 'A' 1st Floor, Opp. Railway Station Vile Parle (East) Bombay : 400057, Ph : (022) 6101147, 6101170 Fax : (022) 6116756
- 1301, Brigade Towers, 135, Brigade Road, Bangalore : 560025, Ph : (080) 2213853, Fax : (080) 221-7655
- 237, Jodhpur Park, Calcutta : 700068.

AUTHORISED TRAINING CENTRES

- Zonix Computers, Trichy, • Computer Consultancy, Jaipur, Ph : 0141-319599
- AVG Computers, New Delhi, Ph : 011-6838620 • VSB Enterprises, Gurgaon Ph : 0124-331630
- NIMT, New Delhi, Ph : 011-6462158, 7427646 • Enigma, Bangalore, Ph : 080-2281662
- Glider Technologies, Cochin, Ph : 0484-372346

SOFTEK

WORLD CLASS SOFTWARE WITHIN YOUR REACH

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

An Industry Versus The Internet

Long distance telephone companies are seeing the writing on on the Net. The ability to use PCs for long-distance phone calls could threaten telephone companies as computer bandwidths broaden and processor speeds increase.

This week, the telecommunications industry's concerns over the new competition, however much in its infancy, prompted a trade group representing more than 100 small long-distance providers to ask the U.S. Federal Communications Commission (FCC) to disallow voice communications over the Internet and to study how to regulate it.

"There is something fundamentally wrong, from our members' perspective, that somebody can talk over the Internet for free. They're giving away our product," said Charles Helein, general counsel of America's Carriers Telecommunication Association (ACTA), which represents carriers with revenues lower than $100 million.

Computer industry experts believe there is little chance that Internet communications can be stopped or regulated, without imposing restrictions that are either unconstitutional, impossible to enforce, or both.

Elon Ganor, chief executive of Vocaltec, a leading Israel-based developer of Internet telephone software said voice communication over the Internet is about to become so widespread that it would be impossible to regulate.

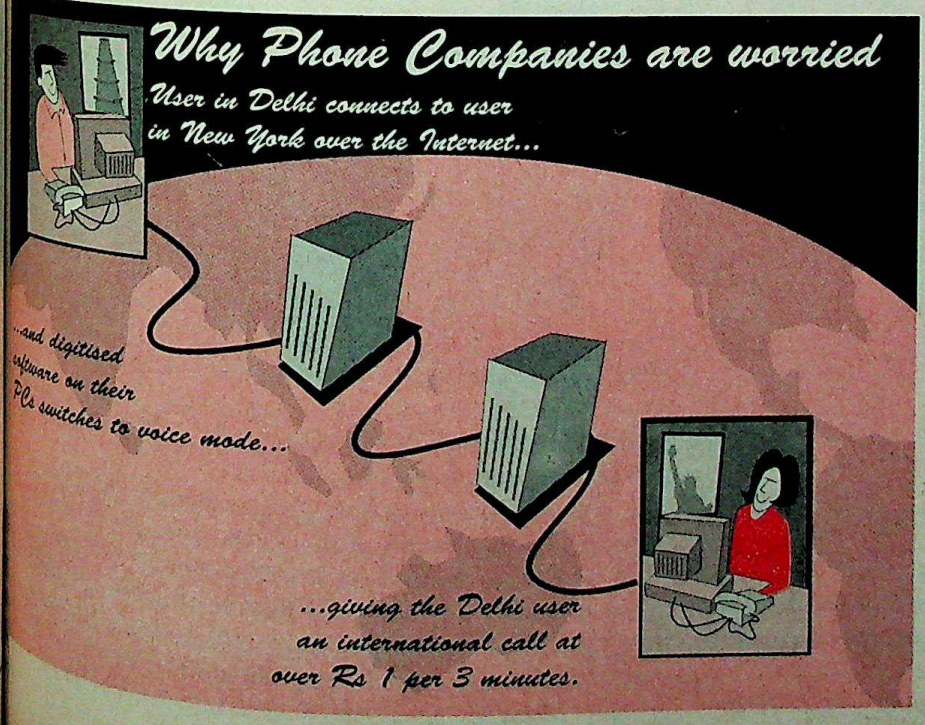
Just last week, Vocaltec introduced a product that allows users to place unmetered long-distance calls between computers and telephones anywhere in the world, using computer networks rather than telephone switches.

This is too radical for ACTA, whose members buy long-distance service wholesale from larger carriers to sell it at a discount. It wants the FCC to stop Internet telephone software providers supplying "unauthorized telecommunications services." FCC officials said they are reviewing the petition.

Most Internet phone systems require both ends to have the same software running on PCs equipped with a modem, headphones and microphone. Voice quality is inferior to telephone service, and there are delays. Yet, nearly 20,000 people use Internet phone software regularly.

Internet calling has been used mostly by hobbyists. But this may change as mainstream on-line service companies, who see the feature as a lucrative marketing tool, are getting in on the act. Netscape Communications has an agreement to bundle Digiphone from Texas-based Camelot, with its popular Web software. America Online and Internet access provider PSInet also are beginning to include Vocaltec's Internet Phone software with their services.

According to ACTA, this makes Internet phone providers "common carriers" who should follow the same rules. These include filing applications to do business at the FCC and State Regulatory Commissions (SRC) and paying special fees to support universal telephone service to rural and low-income areas.



The End Of An e-World

Another online service appears to be heading for the scrap yard as Apple Computer is expected to announce this week that it is no longer accepting new subscriptions to its troubled e-World online service. The service is reportedly scheduled for a complete shutdown in April.

Apple is negotiating with America Online and other services, to take over the 147,000 e-World population. America Online, would appear the logical candidate as it provided the software on which e-World is based.

Officially, Apple said no final decision has been made. "The status of e-World, like many other projects at the company, is under review. We will communicate any changes in strategy to our subscribers as fast as we can," said Christopher Escher, director of Internet marketing.

Apple initially was expected to announce plans to move its online presence to the World Wide Web, much like Microsoft recently announced. It now appears, however, that Apple has scrapped the idea of an Internet-based consumer service similar to e-World

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

and moved towards a plan to develop many Web-based specialty sites around the Apple brand.

Online services, regarded as one of the hottest growth industries as recent as mid-1995, today resemble a bombed-out battlefield. Besides MN and e-World, Prodigy is up for sale and CompuServe was spun off as an independent company by H&R Block. Only America Online appears to have the staying power to survive. It has aggressively sought to integrate Internet services into its basic service, by offering consumers a user-friendly Internet and WWW onramp and browsing capability.

SVNS

SAP To Develop Common Interfaces For Internet Business Transactions

SAP AG plans to work with Microsoft and standards organizations to develop common interfaces for conducting business transactions over the Internet. It will build on Microsoft's implementation of open Internet industry standards, including Microsoft Internet Information Server, merchant server, Microsoft Internet Explorer and ActiveX Technologies.

The business application programming interface (BAPI), SAP's implementation of the common interface, will extend access to mission-critical business systems over the Internet. Using BAPI as well as Microsoft Internet technologies, SAP will provide greatly enhanced Internet functionality to its widely used R/3 systems.

A common standard such as BAPI will provide companies with more flexibility. Any client front-end will be able to access any back-end business system by creating an environment for business systems to work in tandem even if they employ different core technologies. Because of this set of common interfaces, companies will also be able to make optimal use of existing investments in hardware, technology and application.

Active Voice's Latest Internet Messaging And Call Management Apps

Active Voice Corp will demonstrate its latest Internet messaging and call management applications at the Computer Telephony Exposition.

Using TeLANophy unified messaging applications, Active Voice users can send or receive voice and fax messages on the Internet via TCP/IP. This gives them mobile access and the ability to control TeLANophy messaging features and settings from any TCP/IP connection.

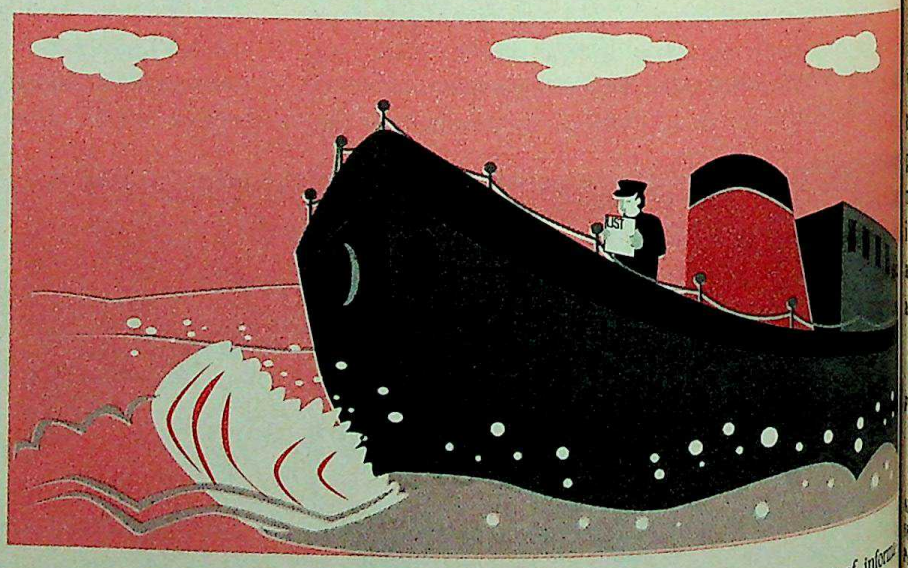
When using a PC without TeLANophy, subscribers can manage voice and fax mail using third-party viewers such as Netscape or on-line services such as CompuServe. Or users can access messages from any online computer (including Mac and UNIX systems) using a standard web browser. Besides offering significant cost savings, this capability gives subscribers the convenience of desktop messaging virtually anywhere.

Using an open messaging standard, Active Voice's messaging system, Repartee, works with third-party applications such as Microsoft Exchange, Microsoft Mail, Lotus Notes, Lotus cc:Mail and Groupwise. Users can access and manage voice and fax messages from their viewer of choice.

Active Voice's home page includes tips on voice mail etiquette and improving productivity with voice mail, unified messaging and call management applications (www.active-voice.com).

Dvorak's Offline Navigator for Internet Newsgroups

Dvorak Development has launched OUI 1.3, a Windows-based offline navigator for Internet Newsgroups. OUI 1.3 supercharges online activities, including



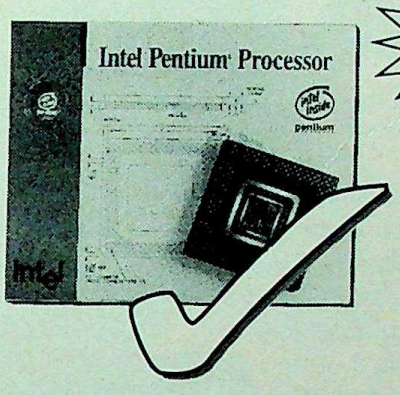
locating, retrieving, downloading, and posting of information to and from newsgroups.

It connects people to newsgroups through Internet access providers, CompuServe, AOL's GNN, and other access services. OUI features task agents that "watch" for key words, phrases, addresses, and user names. It also supports multiple mail attachments, is MIME compatible with a built-in spell-checker, message fonting capability, and helps users organize newsgroups and information more effi-

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

It just doesn't make sense anymore to buy a 486-based system



Look for the genuine Intel Pentium® processor in a box

We agree, the 486 served us pretty well in its time. But only the Pentium processor has the power to meet today's complex business needs and drive the software of tomorrow. With the Intel Pentium processor inside your personal computer, today's demanding software gets more life, more speed and more energy, maximising the return on today's computer investment. The Pentium processor comes in a special attractive box that carries Intel's mark of prestige. The box contains a certificate of authenticity - Intel's guarantee of a genuine product with a 3 year warranty. With entry level systems at below Rs.50,000/-, isn't it time you got the power?

For more details contact Intel's authorised distributors:

GODREJ TRADING & SERVICES CO. LTD., Reg. Office/Marketing Department, Plant 19-A, Pirojshanagar, Vikhroli, Mumbai 400 079. Tel.: 5171166, 5171177, Fax: 5170415.
Ahmedabad: Tel.: 5831545/6, Fax: 5830336. **Bangalore:** Tel.: 2216538/465, Fax: 2279312. **Calcutta:** Tel.: 370895-99, 3596111, Fax: 378271. **Delhi:** Tel.: 6830690, 6845002, Fax: 6841482. **Hyderabad:** Tel.: 202893/4/5, Fax: 203587. **Madras:** Tel.: 6257331, 655666, Fax: 6257155. **Mumbai:** Tel.: 2049663, 2048371, Fax: 2852079. **Pune:** Tel.: 624588, 628971, Fax: 628979.

PRIYA INTERNATIONAL LIMITED, Podar Chambers, 4th Floor, P.O. Box No. 10109, 109, S.A. Brelvi Road, Fort, Mumbai. Tel.: 2663611, 2663676, 2663900. Fax: 2664154, 2663783.
Bangalore: Tel.: 5550623, 5550624, 5550712, Fax: 5550422. **Calcutta:** Tel.: 2422379, 2422378, 2426867, 2428015, Fax: 2423086. **Madras:** Tel.: 4349597, 4349031, Fax: 4340093. **New Delhi:** Tel.: 3314512, 3310413, Fax: 3719107. **Secunderabad:** Tel.: 813120, 813549, Fax: 813549.

Intel and the Intel Inside Pentium processor logo are registered trademarks of Intel Corporation.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

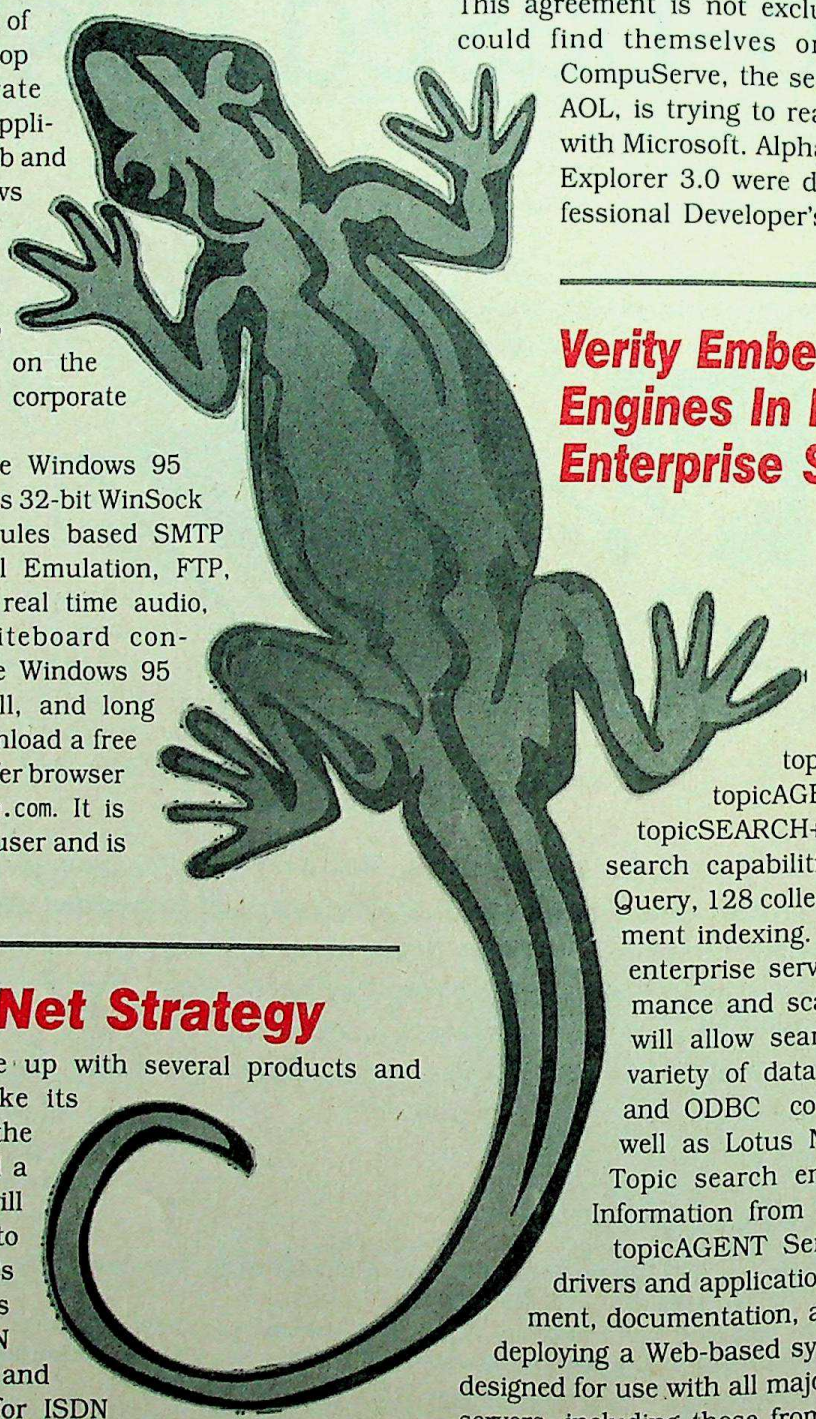
Digitized by Arya Samaj Foundation Chennai and eGangotri

tively and automatically encodes and decodes files.

If you're interested in OUI, try a free, timed edition by visiting Dvorak's web site (http://www.dvorak.com) or their CompuServe forum (GO DVORAK). A seamless upgrade to OUI Pro costs $39.

NetManage's Chameleon 5.0 For Corporate Intranets

NetManage, Inc's Chameleon 5.0 for Windows 95 is a comprehensive set of Windows 95 desktop applications for corporate Intranets. This Intranet application suite integrates Web and corporate data, and allows customers to integrate Microsoft's OLE custom controls and Netscape plug-ins. It bridges the gap between the information on the Web and mission-critical corporate data.



Chameleon is a native Windows 95 software suite and contains 32-bit WinSock applications including Rules based SMTP Mail, Advanced Terminal Emulation, FTP, support for SNMP, and real time audio, video and shared whiteboard conferencing. It supports the Windows 95 Registry, install/uninstall, and long filenames. Users can download a free copy of the 32-bit WebSurfer browser from http://www.netmanage.com. It is priced at $400.00 for one user and is available immediately.

Microsoft's Net Strategy

Microsoft has come up with several products and strategies to make its presence felt on the Internet. It has developed a software program that will make it easier for users to install ISDN lines to PCs running Windows. This program includes ISDN software for Windows 95 and forwards user requests for ISDN lines to their telephone company. This in turn will ensure that ISDN lines are automatically configured for use. Microsoft's software is supported by Netcom Systems, PSINet Inc, UUNet Technologies Inc, Ameritech, Bell Atlantic, Bell Canada, Bell South, GTE, Nynex, Pacific Bell, Southern New England Telephone and US West Communications. Users can access the program from http://www.microsoft.com/windows/getisdn.

Microsoft is also collaborating with consumer electronics manufacturers (to be identified) on a handheld device to access the Net using a scaled-down Microsoft Web browser. This will be a companion to Windows-based desktop PCs.

Microsoft and America Online have reached a strategic agreement for AOL to use Microsoft's Internet Explorer as its standard Web browser for its five million subscribers. Microsoft has agreed to allow Windows 95 users access to AOL via an Online Services folder on the Windows 95 desktop. This agreement is not exclusive and other online services could find themselves on the Windows 95 desktop. CompuServe, the second largest online service after AOL, is trying to reach the same sort of agreement with Microsoft. Alpha versions of Microsoft's Internet Explorer 3.0 were distributed at the Microsoft Professional Developer's Conference at San Francisco.

Verity Embeds Topic Search Engines In Netscape Enterprise Server

Verity, Inc's product suite is designed to offer advanced search features by leveraging the Topic search engine. This will be embedded in the Netscape Enterprise Server. Verity offerings will be marketed as topicSEARCH+, topicACCESS and topicAGENT Server.

topicSEARCH+ is designed to offer advanced search capabilities such as Natural Language Query, 128 collections, and heterogeneous document indexing. It also incorporates the Verity enterprise server back-end for greater performance and scalability. topicACCESS products will allow searching of documents held in a variety of data sources. These include ODBC and ODBC compliant RDBMS and DBMS as well as Lotus Notes (which embeds the Verity Topic search engine) and Microsoft Exchange Information from a Netscape application.

topicAGENT Server will offer the Topic API drivers and application for agent and delivery management, documentation, and sample programs tailored for deploying a Web-based system. The topicAGENT Server is designed for use with all major World Wide Web browsers and servers, including those from Netscape and Microsoft.

These products will be available by the second quarter of 1996. Verity also plans a 90-day free trial offer and customers will be able to download the product from their Web site at http:\\www.verity.com.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Choose the future...

Video-conferencing, MPEG, TV tuner

Pentium 133 MHz - CD-Rom Notebook

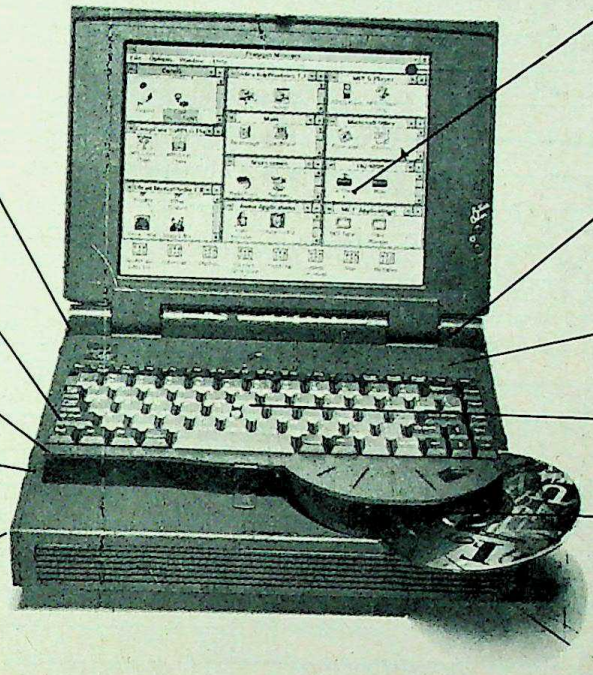
PCMCIA CARDS supports Type II × 2/ Type III × 1

MPEG Full Motion Picture Playback

Video Capture Connect camcorder for use in video conferencing.

CPU Pentium P54C 3.3V or P55C 2.5V upto 150 Mhz. (Also available 486 DX4 models)

RAM upto 64 MB of main memory



Large Display : 10.4 Active TFT or 10.4" Dual Scan STN

HDD Removable upto 1.3 GB

RGB to TV for presentation

Micro Joystick

CD-ROM Drive CD-ROM Drive in built 16 bit stereo sound built in speakers/mic

YOUR GATEWAY TO REAL MULTI-MEDIA COMPUTING ERA IS HERE !!

InnovACE™

The Innovative Notebook Specialist ™

Ask for an amazing price offer

Brand "InnovACE" USA-Holland: leading in

- 1992 World's First 386sx 25MHz Notebook
  First Notebook Built-in SCSI port
- 1993 World's First 386DX 40 MHz Notebook
- 1994 First Notebook Built-in Cyrix S/33 & DSTN LCD
  May World's First Notebook Built-in 12mm "CD-ROM", leading over 6 months

(also available 486 Dx4 models)

SAMTECH™

COMPUTERS PVT. LTD.

10A/27, EAST PATEL NAGAR, NEW DELHI-110008 INDIA
FAX : 5734293, 5751683 TELEX : 031-77336 AKIL-IN
TEL.: 5734293, 5734226

Authorised Resellers:
BOMBAY: Thukral Trading Ltd. Ph.: 2053765, 2032283, Fax: 2083112 Synergy Information Technologies, Ph. 8369816 Fax.: 8325415 Futech Systems Ph.: 4453438, 4453332, Fax: 440072 **BHUVNESHWAR:** Oricomp Systems (P) Ltd. Ph.: 406180, 400343 Fax : 405875 **PUNE :** Pushpam Ph.: 415162, 411270, 417885 Fax : 416455 **MADRAS :** Integral Computers Ph.: 8552846 **DELHI :** The Computer People Ph. : 4617229, 4690854 Fax : 011-4629275

DEALERS & O.E.M. ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVERTISERS INDEX

This index is to help you in locating a particular advertisement in this issue. However, if you want further information on any product/ service advertised here, just put the appropriate code number in the 'Reader Query' card and mail it back to us. We will forward your query to the concerned company.

Code No.	Company	Page
0401	ABHA	32
0402	BENCHMARK	14,166
0403	BINARY	24,73,146
0404	CDAC	30,31
0405	CSI	85,87,89,91
0406	CTEL	77
0407	DUCKBACK	13
0408	DIGITAL WORLD	51
0409	DATEX	116
0410	ELNOVA	95
0411	ELENT	54
0412	EDP CORPN.	119
0413	EDP AIDS	156
0414	5th GENERATION	41
0415	GODREJ	20,21
0416	HP	93,IBC
0417	H S TECH	23
0418	INNOVATION S/W	44
0419	INTEL	125
0420	INFOSYS	78
0421	KINETIC ELEC.	121
0422	KUNAR PERI	82
0423.	MULTITECH	I.F.C
0424	MICROSYS	4
0425	MODI XEROX	26,27
0426	MODULAR	35
0427	MEDIA TECH	46
0428	MICROWARE	67
0429	META GROUP	80
0431	MAXX SYSTEMS	98
0432	MICROSENSE	10
0433	ORACLE	59,61
0434	PEUTRONICS	22
0435	PROLAND	42
0436	PRIYA INTN.	65,133
0437	PUSTAK MAHAL	69,71
0438	PUSHPAM	75
0439	SOFTLINK	19
0440	SVAM S/W	28
0441	SATYAM	152
0442	SAN TELEQUIP	8
0443	SOFTEK	122
0444	SAMTECH	127
0445	SIEMENS	145
0446	TRANSDOT	48
0446	TISL	6,7
0447	TVSE	163
0448	VINTRON	1
0449	VIDUR & CO	38
0450	WIPRO PERI.	2,3
0451	ZENITH	BC

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

minar On Fast thernet And itching Solutions

ay Networks conducted a seminar on Building Effective h Performance Networks h Fast Ethernet And itching Solutions. The minar focused on integg these solutions as part ng-term enterprise migon plan.

el To Acquire rdPerfect oducts

orel has entered into an agreement to acquire the WordPerfect uct range. Corel will take chnical responsibility turn receive necessary s for WordPerfect 7 and rfectOffice 7 releases in the future. Corel will also e the GroupWise client ware, the Envoy elecpublishing software, DRAW! 6 and CorelURA 6 for inclusion in rfectOffice suite.

—Microsoft's horized hnical cation Center

icrosoft has appointted Software Technoogy Group (STG) as thorized Technical ation Center. STG will fer Microsoft-develourses and certification ducts such as Windows, Windows NT, SQL erver Exchange.

's Plan For rging Markets

BM plans to increase its reach in India, China, Brazil and Indonesia as part of a global strategy. TISL will also strengthen its dealer network in India and sell most of its products through them. In the SOHO segment, TISL will concentrate on small and medium enterprises. IBM will also launch a multimedia home PC, Aptiva, in India later this year.

SCO's Internet Strategy

SCO plans to deliver the commercial benefits of the Internet to customers by integrating the Net into SCO products, services, training and partnerships. In addition, SCO will provide Internet vendors with tools, training and services to build Internet apps and join industry leaders to develop the best business products and services. SCO's agreement with Netscape to license the Netscape Proxy Server and Netscape Navigator for bundling with itsOpenServer and UnixWare platforms is part of this strategy. SCO has also licensed MCS' Inetix Client and Gateway to bundle with the SCO Internet offering code-named Atlas.

Gupta Corp's Centura Product Line

Gupta Corp's Centura product line has been designed to help customers develop and deploy 32-bit client-server apps. The Centura line is compatible with Gupta's SQL Windows and SQLBase products. It consists of Team Developer, a component-based applications development environment and Ranger, a data replication facility plus Web Data Publisher and Application Server.

Datapro Is Corel's Fourth Distributor

Datapro Infoworld, the Microsoft distributor for India, has also been signed up as a Corel distributor. Datapro will sell the complete Corel line of products for the graphics, business and home markets.

Tally 5.0 For The Mac

At NASSCOM '96, Apple Computers announced that Tally 5.0, a financial software package developed by Peutronics, will be commercially available for the Apple Mac from March onwards.

Tandon Computers In India

The California-based Tandon Group will bring a range of computers, from notebooks to Pentium-based tower systems, to India. Tandon's innovations include the Data Pack, the Add Pack and the Targa mini-tower.

CD-ROM On World Cup Cricket

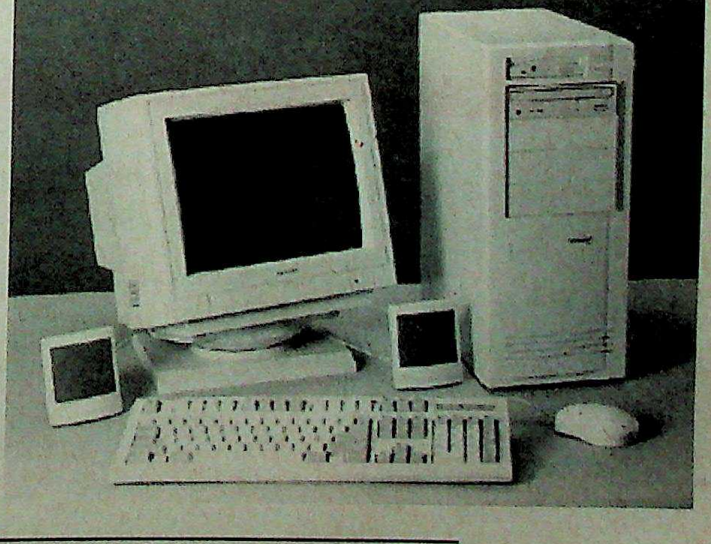
Tata Interactive Systems' "The Wills World Cup: A Curtain Raiser" will be distributed exclusively by HCL Frontline. This CD-ROM contains Sunil Gavaskar's views on the finest cricketing moments in World Cup history and presents a preview of the 1996 World Cup.

Samsung's Software Operations Unit

Samsung Electronics launched their Indian Software Operations unit in Bangalore. Samsung Electronics India Operations (SISO) will be a communication channel between Samsung's South Korean headquarters and Indian software companies. It will focus on four key areas: semi-conductors, telecommunications and networking, computer system applications and multimedia. SISO will eventually deliver result-driven research and development management through market-oriented software development, cost-competitive software design and online delivery.

Lotus Awarded $2.3 Million

Lotus Development was awarded $2.3 million by the



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Singapore High Court in its civil action against a Singapore accountant, Ong Seow Pheng, for copyright infringement. Ong's house was raided by Singapore police and Lotus investigators after ten months of intelligence gathering. They found unlicensed copies of Lotus software, sales records and two computers, one of which had a "COPYIIPC" card that allows duplicating copy-protected programs. Ong was sentenced to a seven-month jail term in a concurrent criminal suit filed by Lotus.

Panalink Home Page

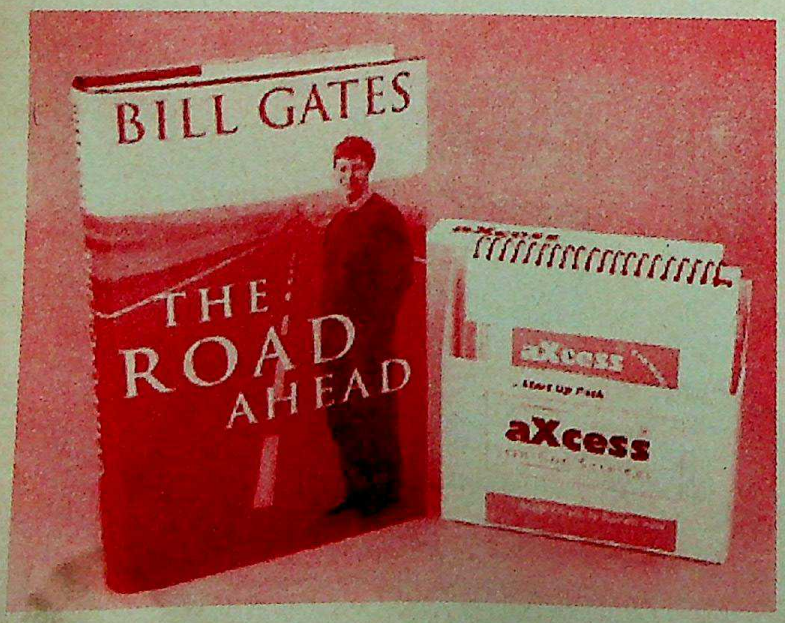
Panalink Internet Services has started creating and hosting Internet home pages for Indian companies. It can also set up Virtual Internet Hosts for organizations requiring a more dedicated Internet presence. Panalink has also started a Web site, India Connect, to publicize home pages of Indian companies (http://www.indiaconnect.com), IndiaConnect provides current events, business, politics, economy, and travel information on India.

Order Penguins Online

Penguin India and Business India Information Technology have reached an agreement which allows aXcess users to order Penguin books online. Users can e-mail their order to Penguin India and get a discount. At present, this service is available only in Delhi and Bombay, but will be soon extended to Calcutta and Bangalore. *The Road Ahead* by Bill Gates is also available at a discount for aXcess subscribers.

Wipro Infotech Fidelio Joint Venture

Wipro Infotech has teamed up with Fidelio, a provider of software solutions to the international hotel industry, to provide IT solutions to the Indian hotel industry. This alliance will benefit hotels in the three- to five-star range, who will be able to provide e-mail, Internet access and online reservations to their guests.



ICICI Bank Ventures Into Cyberspace

ICICI Banking Corporation Web site, which went live on February 26, is targeted at the NRI community. As India's Internet users increase, the site's focus will also include the Bank's domestic clients. The home page, http://www.indiaworld.com/icicibank/index.html. contains ICICI's p... information of ... NRIs. Comment... ancial develop... ded by ICICI B... will be available as ... update on the home ... electronic guest bo... Internet users to re... comments and to ... information thro... The Web site fa... been provided ... Database Cons... Mumbai.

Seminars and Exhibitions

APRIL

Object Oriented Analysis and Design (OOAD), New Delhi
15-17 April
Contact: Quality Assurance Institute, 7 Community Centre, East of Kailash, New Delhi 110065 **Tel:** 11-6432335, 6219792 **Fax:** 11-6218974

VR Expo'96, New Delhi
18-20 April 1996
Contact: CyberExpo, 506, Meghdoot, 94, Nehru Place, New Delhi 110019. **Tel:** 11-6416315, 6411692 **Fax:** 11-6476664

National Convention Of Computer Educators & Trainers, Patna
20-21 April 1996
Contact: National Association Of Computer Educators & Trainers, C/O Indian Institute Of Ecology & Environment, Paryavaran Complex, Maidan Garhi Road, New Delhi 110030 **Tel:** 11-6865084

Fagan's Inspections, Calcutta
29 April
Contact: Quality Assurance Institute, 7 Community Centre, East of Kailash, New Delhi 110065 **Tel:** 11-6432335, 6219792 **Fax:** 11-... Structured Meth... Software Testing, ...
30 April-1 May
Contact: Quality ... Institute, 7 Comm... tre, East of Kailash, N... 110065 **Tel:** 11-6... 6219792 **Fax:** 11-...

JUNE

Computex Taipei, ...
6-10 June 1996
Contact: Orbit, 1127... Premises, AS Marol... Prabhadevi, Bombay ... **Tel:** 22-220647 **Fax:** ... 263916

DMW '96: First Trade ... For Digital Media, ...
18-21 June 1996
Contact: German Ex... Nyaya Marg, Chanak... New Delhi 110021 **Tel:** ... 3018721, 3018730 **Fax:** ... 3018664

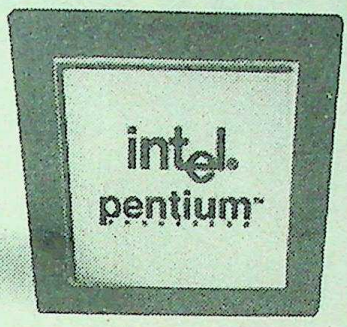
AUGUST

National Seminar on ... Engineering & its Appl...
24-26 August 199...
Contact: Informat... nology Division, In... Public Enterpr... Campus, Hyderab... **Tel:** 40-818445 **Fax:** ... 868938

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Begin With Twin intel® Advantage



and

motherboard

Experience the amazing power of **pentium™** processor
And the high performance of motherboard made by **intel**.

Now available from Priya at a special package price !

FEATURES

- WINDOWS 95 - ready
- High performance PCI local bus
- Flash BIOS for future up-gradability
- Level-5 Over Drive Ready
- Plug and Play
- PCI enhanced IDE on board
- On board 2 serial, 1 parallel port and FDD controller.
- EDO DRAM Support.

THE PRIYA GROUP

PRIYA INTERNATIONAL LTD., THE AUTHORISED DISTRIBUTOR FOR INTEL, CONTINUOUSLY BRINGS YOU HIGH END, HI-TECH PRODUCTS AT RIGHT PRICES. ADD TO THAT THE BENEFIT OF PRIYA'S SERVICE, PRODUCT WARRANTY, TECHNICAL SUPPORT AND THE ASSURANCE OF GENUINE QUALITY. AND YOU HAVE BEST OF BOTH THE WORLDS.

Now stocks available from our local outlets also.

Priya GROUP

TRUE VALUE FOR YOUR MONEY

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 266 3783, 285 4037

Branch Offices: Bangalore: Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422378, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

*The Logos and Trade Marks shown above are of their respective owners.

Vandit Designs PIL/06/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The PCQ Market Monitor

List prices for software, hardware and peripherals. This listing lets you compare features and prices before buying. Use the Reader Query Service number and card to get more information about the products listed here

SOFTWARE

COMMUNICATIONS AND GROUPWARE

Product	Developer	Price	RQS No
Procomm Plus Network(5 users)	Datastorm	27,990	E041535
Procomm Plus 2.01	Datastorm	5,6900	E041533
Procomm Plus Win 2.11	Datastorm	7,890	E041534
Winfax Pro/Networks 5/4.0	Delrina	26,000	E04733
Winfax Pro/Networks 4.0	Delrina	25,000	E04731
Winfax Pro/Server 4.0	Delrina	12,000	E04732
Winfax Pro Single User 4.0	Delrina	7,995	E04730
Dosfax Pro, Single User 2.0	Delrina	5,995	E04734
Notes 10 user	Lotus	135,000	E041586
Notes Desktop 10 user	Lotus	76,000	E041588
Notes Server	Lotus	15,500	E041584
Notes Client	Lotus	15,500	E041585
cc: Mail 10 user	Lotus	15,000	E041573
Notes Desktop	Lotus	9,000	E041587
Lotus Organizer	Lotus	5,500	E041559
MS Mail Server 3.2 DOS	Microsoft	26,230	E041821

COMPILERS

Fortran (DOS)	Softek	5,000	E04695
Fortran (LAN/UNIX)	Softek	15,000	E04696
COBOL (DOS)	Softek	15,000	E04697
COBOL (LAN/UNIX)	Softek	40,000	E04698
Pascal (DOS)	Softek	5,000	E04701
Pascal (LAN/UNIX)	Softek	15,000	E04702

COMPUTER-AIDED DESIGN

AutoCAD 13 DOS/Win	AutoDesk	104,000	E041468
AutoCAD 12 DOS/Win	AutoDesk	93,500	E041467
AutoCAD 11 DOS	AutoDesk	46,500	E041466

Product	Developer	Price	RQS N
AutoDesk Workcentre/Win	AutoDesk	33,000	E041
DesignCAD 2D/DOS/5.25"	ASBC	9,500	E041
DesignCAD 3D/DOS/5.25"	ASBC	16,150	E041
DesignCAD 2D/Win/5.25"/CD-ROM	ASBC	17,975	E041
DesignCAD 2D 7.0/Win/3.5"[1]	ASBC	21,250	E041
DesignCAD 3D/3.5"/CD-ROM	ASBC	23,550	E041
DesignCAD 2D/Win 95	ASBC	19,500	E041
DesignCAD 3D/Win 95	ASBC	25,550	E041
DesignCAD Office 95[2]	ASBC	59,800	E041
DesignCAD 2D/3D 3.01/Mac	ASBC	21,250	E041

[1]With DesignCAD 2D symbols library; [2]It includes DesignCAD 2D, Design
Professional Symbols 2D/3D, Instant Estimator, Scanpro, video tutorials
3D; ASBC: American Small Business Computers

DATABASE PRODUCTS

dBASE 5.0 for DOS	Borland	14,245	E04
dBASE for Win Developers Kit	Borland	30,950	E04
dBASE IV 1.5/2.0 for DOS	Borland	14,245	E04
dBASE III+	Borland	13,145	E04
Paradox 5.0 for Win	Borland	10,945	E04
Paradox 4.5 for DOS	Borland	14,245	E04
Delphi Standalone/CD-ROM	Borland	16,445	E04
Delphi Client Server CD-ROM	Borland	98,945	E04
Forehelp	Borland	4,345	E04
Reportsmith 2.5 PC Databases	Borland	4,345	E04
Filemaker Pro 2.1 Win	Claris	3,950	E04
Filemaker Pro 2.1 Win 5 user	Claris	13,950	E04
Lotus Approach	Lotus	4,750	E04
Access 2.0 (Win/Win95)	Microsoft	15,390	E04
Access Dev Kit 2.0	Microsoft	18,670	E04
FoxPro 2.6 Professional DOS	Microsoft	26,230	E04
FoxPro 2.6 for Win	Microsoft	5,540	E04

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Developer	Price	RQS No
-Pro 2.6 Professional Win	Microsoft	26,230	E041841
-Pro 3.0 STD for Win	Microsoft	11,140	E041843
-Pro 3.0 Professional Win	Microsoft	27,890	E041844
Office Server for NT 1.5	Microsoft	133,760	E041781
Office Client MLP 20 user	Microsoft	254,370	E041783
SQL Server for Win NT 6.0	Microsoft	60,350	E041790
SQL Workstation, Win NT 6.0	Microsoft	29,780	E041792
SQL Client/WinNT 6.0 MLP 20 user	Microsoft	143,930	E041794
SQL Client/Win NT 4.21 MLP	Microsoft	8,990	E041803
Personal Oracle 7	Oracle	15,830	E041485
Oracle7 Workgroup Server/user	Oracle	11,822	E041486
Oracle Power Objects/Standalone	Oracle	15,830	E041487
Oracle Objects for OLE	Oracle	7,895	E041489
Personal Oracle7 Enterprise Edition	Oracle	23,610	E04810
SYBASE/DOS	Softek	7,500	E04890
5 User Sybase Workgroup 8 User	Sybase	95,000	E04735
10 User Sybase Workgroup 12 User	Sybase	250,000	E04736
15 User Sybase Workgroup 16 User	Sybase	295,000	E04737
25 User Sybase Workgroup 32 User	Sybase	490,000	E04738
50 User Sybase Workgroup 48 User	Sybase	750,000	E04739
100 User Sybase Workgroup 64 User	Sybase	850,000	E04740
Q&A 2.0 WIN 3.5"	Symantec	7,800	E04667
Q&A 2.0 WIN Mobile Link 3.5"	Symantec	17,300	E04668
Q&A 2.1 DOS 5-Node	Symantec	23,600	E04669
Q&A 4.0 DOS 3.5"	Symantec	12,000	E04670
Q&A 4.0 DOS 3-Node 3.5"	Symantec	23,500	E04671
Q&A 4.0 Win 3.5"	Symantec	9,800	E04672
Q&A 4.0 Win 3 Node 3.5"	Symantec	17,900	E04673

DTP/GRAPHICS

Product	Developer	Price	RQS No
PageMaker 5.0A Win LITE	Adobe	7,950	E041730
Illustrator 4.1	Adobe	21,950	E041732
Illustrator 6.0 Mac	Adobe	19,950	E041733
PhotoShop 3.0.4 Win	Adobe	31,950	E041735
PhotoShop 3.0 Mac/Win 5 user	Adobe	132,950	E041736
Persuasion 3.0 Win	Adobe	13,950	E041737
Premiere 4.0 Win	Adobe	28,950	E041739
Dimension 1.0 Mac	Adobe	10,950	E041741
Atmosphere 1.2A Mac Server	Adobe	6,950	E041745
Atmosphere 1.2A Mac 10 user	Adobe	82,950	E041747
TypeAlignATM Mac	Adobe	6,950	E041748
TypeAlignATM Mac 5 user	Adobe	23,950	E041749
Type Align 2.1 Win/Mac	Adobe	3,950	E041750
Type Manager Win/Mac	Adobe	2,950	E041751
Type On Call 4.0 Win	Adobe	2,950	E041756
Acrobat 2.1 Win	Adobe	8,950	E041757
Acrobat Pro 2.1 Win	Adobe	22,950	E041758
Font Studio 4 DOS	AutoDesk	28,000	E041471
Animator Studio Win	AutoDesk	20,000	E041473
Animator Pro DOS	AutoDesk	20,000	E041474
CorelDraw 3.0 CD-ROM	Corel	4,950	E041703
CorelDraw 4.0 CD-ROM	Corel	7,950	E041705
CorelDraw 4.0 (Disks & CD-ROM)	Corel	9,950	E041706
CorelDraw 5.0 CD-ROM	Corel	24,950	E041708
CorelDraw 5.0 (Disks & CD-ROM)	Corel	32,950	E041709
Corel Ventura 5.0 CD-ROM	Corel	17,950	E041717
Corel Ventura 5.0 Disks	Corel	21,950	E041718
Corel Draw (Disks & CD-ROM)	Corel	4,950	E041720
Corel PhotoPaint 5+ CD-ROM	Corel	4,950	E041722

Product	Developer	Price	RQS No
Rangoli/Hindi/5.25"/3.5"	Fifth Generation	7,777	E04811
Rangoli/Gujarati/5.25"/3.5"	Fifth Generation	7,777	E04812
Rangoli/Gurmukhi/5.25"/3.5"	Fifth Generation	7,777	E04813
FrameMaker 4.0 Win/Mac	Frame	34,950	E041765
FrameMaker 4.0/Win addl user	Frame	30,950	E041766
Frameviewer 4.0 for Win/Mac	Frame	2,950	E041767
Frameviewer 4.0 5 user	Frame	6,950	E041768
Lotus Freelance DOS	Lotus	16,000	E041564
Freelance Graphics DOS/Win	Lotus	12,000	E041554
Director 4.04 Win/Mac	Macromedia	48,950	E041769
Action 3.0 Win	Macromedia	8,950	E041770
Action 1.0.4 Mac	Macromedia	8,950	E041771
Authorware 3.0 Win/Mac	Macromedia	189,950	E041772
Macromodel 1.5 Win/Mac	Macromedia	39,950	E041773
Designer Power Pack	Micrografx	35,000	E04814
Designer 4.1/Picture Publisher/5.0	Micrografx	35,000	E04815
Designer 4.1	Micrografx	19,500	E04816
Designer4.0	Micrografx	19,500	E04817
Charisma4.0	Micrografx	19,500	E04818
Picture Publisher 5.0	Micrografx	27,000	E04819
ABC Flowcharter4.0	Micrografx	19,500	E04820
Snapgrafx 2.0	Micrografx	7,500	E04821
Graphics Works	Micrografx	10,000	E04822
Windows Draw	Micrografx	5,000	E04823
Windows Orgchart 2.0	Micrografx	5,000	E04824
Crayola Art Studio	Micrografx	5,000	E04825
Crayola Art Adventure	Micrografx	5,000	E04826
Powerpoint 4.0	Microsoft	15,390	E041857
Powerpoint Win 95	Microsoft	15,390	E041859
Fontpack 1/2 for Win 1.0	Microsoft	2,170	E041891
Publisher for Win 2.0	Microsoft	4,330	E041888
Publisher Design Pack/Win 2.0	Microsoft	1,230	E041890
HP Font Set for Win 1.0 MLP	Microsoft	1,740	E041894
TrueType Master Set	Microsoft	1,610	E041896
Prakshak (English+1 Ind lang)/ DOS/Win/Mac	Sonata	12,500	E04891
Prakashak Font Packs	Sonata	5,000	E04892

FINANCIAL ACCOUNTING

Product	Developer	Price	RQS No
WinCA/DOS	Softek	9,000	E04893
WinCA/Win	Softek	12,000	E04894
WinCA/LAN	Softek	14,000	E04895
E.X 3.0	TCS	9,950	E04706
E.X 3.0 LAN	TCS	19,950	E04707
E.X 2.0	TCS	4,950	E04708

HOME APPLICATIONS AND GAMES

Product	Type	Price	RQS No
ENTERTAINMENT			
MS Flight Simulator for DOS 5.00/ Mac 4.00	3.5"	2,020	E04471
MS Space Simulator for DOS 1.00	CD-ROM	2,020	E04473
MS Entertainment Pack 1/2/3/4 for Win 1.00	3.5"	1,240	E04474
MS Golf Course for Win 1.00	3.5"	930	E04478
MS SoundBits-MGM Movies for Win 1.00	3.5/5.25"	780	E04479

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Type	Price	RQS No
MS SoundBits-Musical Inst for Win 1.00	3.5/5.25"	780	E04480
MS Home Sampler for Win 1.00 Rel 3	CD-ROM	150	E04481
MS Arcade for Win 1.00/Mac 1.00	5.25"/3.5"	1,240	E04482
MS Complete Baseball for Win	CD-ROM	1,300	E04498
MS Basketball for Win/Win 95	CD-ROM	1,300	E04499
MS Beethoven's 9th for Win 1.10	CD-ROM	1,300	E04484
MS Musical Instruments for Win 1.00	3.5/5.25"	1,300	E04485
MS Musical Instruments for Mac 1.00	CD-ROM	1,300	E04486
MS Cinemania for Win/Mac	CD-ROM	2,490	E04488
MS Cinemania for Win95	CD-ROM	1,300	E04489
MS Ancient Lands for Win 1.00/ Mac1.00	CD-ROM	1,300	E04491
MS Dinosaurs for Win 1.00/ Mac 1.00	CD-ROM	1,300	E04493
MS Mozart for Win 1.00	CD-ROM	1,300	E04495
MS Flight for Win 1.00	CD-ROM	1,300	E04496
MS Flight for Mac 1.00	CD-ROM	1,410	E04497
Corel Adventures with Edison	CD-ROM	1,138	E04827
Corel Arcade Mania	CD-ROM	1,138	E04828
Corel Blue Tortoise	CD-ROM	1,138	E04829
Corel Nicolai's Trains	CD-ROM	1,138	E04830
Corel Green Bear	CD-ROM	1,138	E04831
Corel NN&N Toymakers	CD-ROM	1,138	E04832
Corel All Movie Guide	CD-ROM	1,138	E04833
Corel Red Rhino	CD-ROM	1,138	E04835
Corel Wild Cards	CD-ROM	1,138	E04837
Flight Unlimited/DOS	CD-ROM	3,900	E04896
Nascar Racing/DOS	CD-ROM	4,675	E04897
Promised Land/CD-ROM/Mac	CD-ROM	3, 850	E04898
Walt Disney Software			
Disney's Aladdin Activity/Win/Mac	CD-ROM	2,300	E04899
The Lion King Animated/Win	CD-ROM	2,900	E04900
Winnie The Pooh and the Honey	CD-ROM	3,200	E04901
Pocahantas Animated Storybook/ Win/Mac	CD-ROM	3,200	E04902
Disney's Lion King Activity/Win	CD-ROM	3,200	E04903
Training			
Rosetta Stone Series			
Power Pac (Win/Mac)	CD-ROM	2,500	E04608
French Level A (Win/Mac)	CD-ROM	8,800	E04609
German Level 1A (Win/Mac)	CD-ROM	8,800	E04610
Spanish Level 1A (Win/Mac)	CD-ROM	8,800	E04611
Russian Level 1A (Win/Mac)	CD-ROM	8,800	E04612
English Level 1A (Win/Mac)	CD-ROM	8,800	E04613
Individual Training For			
Ami Pro (Win)	3.5"	2,518	E04614
cc:Mail (Win)	3.5"	2,518	E04615
Lotus 1-2-3 (Win)	3.5"	2,518	E04616
Lotus Approach(Win)	3.5"	2,518	E04617
Lotus Freelance(Win)	3.5"	2,518	E04618
Microsoft Access(Win)	3.5"	2,518	E04619
Microsoft Excel(Win)	3.5"	2,518	E04620
Microsoft Mail(Win)	3.5"	2,518	E04621
Microsoft Word(Win)	3.5"	2,518	E04622
OS/2 (Win)	3.5"	2,518	E04623
PageMaker (Win)	3.5"	2,518	E04624
PowerPoint (Win)	3.5"	2,518	E04625
Win (Win)	3.5"	2,518	E04626
WordPerfect(Win)	3.5"	2,518	E04627
Microsoft Office	3.5"	10,060	E04628
Lotus Smartsuite	3.5"	10,060	E04629
DOS	3.5"	2,518	E04630
Novell DR DOS	3.5"	2,518	E04631
PC (DOS)	3.5"	2,518	E04632
dBASE IV (DOS)	3.5"	2,518	E04633
LANs with Data Com (DOS)	3.5"	2,518	E04634
Lotus 1-2-3 (DOS)	3.5"	2,518	E04635
Lotus Macros (DOS)	3.5"	2,518	E04636
Paradox (DOS)	3.5"	2,518	E04637
Project Management/DOS	3.5"	2,518	E04638
WordPerfect (DOS)	3.5"	2,518	E04639
Typing Instructor/DOS	3.5"	1,798	E04640
Mac (Mac)	3.5"	2,518	E04641
Microsoft Excel(Mac)	3.5"	2,518	E04642
Microsoft Word (Mac)	3.5"	2,518	E04643
PageMaker (Mac)	3.5"	2,518	E04644
Typing Instructor/Mac	3.5"	1,798	E04645
Multimedia(Win & Mac)	CD-ROM	3,598	E04646
Multimedia Typing Instructor/Win	CD-ROM	1,798	E04647
Ami Pro/Win	3.5"	3,598	E04648
cc:Mail (Win)	3.5"	3,598	E04649
Lotus 1-2-3/Win	3.5"	3,598	E04650
Lotus Approach/Win	3.5"	3,598	E04651
Lotus Freelance/Win	3.5"	3,598	E04652
Microsoft Access/Win	3.5"	3,598	E04653
Microsoft Excel/Win	3.5"	3,598	E04654
Microsoft Mail/Win	3.5"	3,598	E04655
Microsoft Word/Win	3.5"	3,598	E04656
PowerPoint/Win)	3.5"	3,598	E04657
Win/Win	3.5"	3,598	E04658
WordPerfect/Win	3.5"	13,140	E04659
Microsoft Office/Win	3.5"	13,140	E04660
Lotus Smartsuite/Win	3.5"		
Others			
MS Bookshelf for Win/Win 95	CD-ROM	3,110	E04661
MS Bookshelf for Mac	CD-ROM	3,110	E04662
MS Encarta for Win	CD-ROM	4,330	E04663
MS Encarta for Win95	CD-ROM	2,180	E04664
MS Encarta for Mac	CD-ROM	4,330	E04665
MS Encarta World Atlas for Win95 1.00	CD-ROM	2,180	E04666
MS AutoMap Road Atlas for Mac 2.00	3.5"	1,640	E04667
Corel Internet Mania	CD-ROM	1,138	E04668
Corel Complete Herman Collection	CD-ROM	1,138	E04669
Corel Interactive Alphabet	CD-ROM	1,138	E04670
Corel World's Greatest Classic Books	CD-ROM	1,138	E04671
Corel Bernard of Hollywood's Marilyn	CD-ROM		

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INTERNET PRODUCTS

	Type	Price	RQS No
default		3,950	E04844
Netscape Navigator 1.1/Mac/UNIX		3,950	E04845
Netscape Navigator 1.2/Win/NT/Win95		5,950	E04846
Netscape Navigator 2.0 Gold/Win/NT/Win 95/Mac/UNIX		2,990	E04847
		1,690	E04848
SpryInSuite		3,590	E04849
Quarterdeck Mosaic		8,590	E04850
WebAuthor		1,890	E04851
Quarterdeck WebServer		6,890	E04852
Internet Rapid Essential Internet		3,790	E04853
WinCompass		39,990	E04854
WinTalk			
Mega Connect 5 user			

MEMORY MANAGEMENT

DESQVIEW/X	Quarterdeck	13,890	E041525
DESQVIEW	Quarterdeck	4,990	E041528
DESQVIEW/386	Quarterdeck	7,690	E041529
QEMM 7.1	Quarterdeck	4,490	E041524
QEMM 6	Quarterdeck	4,490	E04861
MagnaRAM 2	Quarterdeck	2,290	E04863

OPERATING SYSTEMS & NETWORKING

NT Server 3.51	Microsoft	41,030	E041775
NT Workstation 3.5	Microsoft	17,820	E041813
NT Workstation 3.5 MLP	Microsoft	15,130	E041814
DOS 6.22 RUP	Microsoft	2,050	E041897
DOS 6.22 RUP 20 user MLP	Microsoft	32,770	E041899
for Workgroup 3.11	Microsoft	5,810	E041900
for Workgroup 3.11 MLP	Microsoft	5,030	E041901
for Workgroup 3.11 20 user MLP	Microsoft	93,100	E041902
95	Microsoft	6,770	E041906
Personal NetWare	Novell	3,950	E041658
Net DOS 7	Novell	2,950	E041659
Ware 3.12 5 Users	Novell	35,950	E041660
Ware 3.12 25 Users	Novell	118,950	E041662
Ware 3.12 50 Users	Novell	159,950	E041663
Ware SFT 4.1 Upto 100 users	Novell	47,950	E041672
Ware 4.1 5 User CD-ROM	Novell	35,950	E041674
Ware 4.1 25 User CD-ROM	Novell	118,950	E041676
Ware 4.1 50 User CD-ROM	Novell	159,950	E041677
SCO Desktop System 1 user CD-ROM	SCO	46,800	E041491
SCO Enterprise System 5 user CD-ROM	SCO	76,400	E041493
SCO Development System	SCO	46,800	E041494
SCO Openserver 10 user Host/ Server	SCO	30,000	E041495
SCO Openserver 25 user Host/ Server	SCO	60,400	E041496

DEVELOPMENTS TOOLS AND LANGUAGES

MS Professional Basic for MS-DOS 7.10		18,720	E04448
MS Quick Basic for MS-DOS 4.50		7,530	E04449
MS Visual Basic for Win 4.00 Update		2,660	E04450
MS Visual Basic for Win 4.00		5,320	E04451
MS Visual Basic for MS-DOS 1.00		7,530	E04452

Product	Developer	Price	RQS No
MS Visual Basic Pro for Win 3.00 CompUpg CD-ROM		11,150	E04458
MS Visual FoxPro for Win 3.00 Upg 3.5"		5,550	E04460
Asymetrix Tool Book 4.0		11,495	E04855
Asymetrix Multimedia Tool Book 4.0/CD-ROM		63,710	E04856
Asymetrix Media Blitz		7,090	E04856
Borland C++ 4.5 DB Tools Super Pack		41,950	E041629
Borland C++ 4.5 DOS		19,950	E041630
Borland C++ 4.5 Win NT		11,950	E041631
Borland C++ 4.5 and Database Tools		28,950	E041630
Borland DatabaseEngine for Win		15,950	E041632
Borland Visual Solution Pack		3,950	E041633
Borland Power Pack for DOS		3,950	E041634
Runtime Library Source Code		3,950	E041636
Turbo Assembler DOS		3,950	E041637
Borland Pascal 7 with Objects DOS/Win		19,950	E041640
Turbo C++ 3.0 for DOS		6,950	E041641
Turbo C++ Visual Edition/Win		6,950	E041642
Turbo Pascal 7.0 DOS		6,950	E041643
Borland SQL Link/Win		3,950	E041644
MS SQL Programmer Toolkit for Win NT 4.21		25,570	E041807
MS Multimedia Toolkit for Win		12,330	E041912

PROJECT MANAGEMENT

MS Project 4.0 DOS	Microsoft	16,480	E041866
MS Project 4.0 Win	Microsoft	23,140	E041867
MS Project for Win 95	Microsoft	23,440	E041868

SPREADSHEETS

Lotus 1-2-3 2.4	Lotus	12,000	E041548
Lotus 1-2-3 2.4 5 user	Lotus	48,000	E041549
Lotus 1-2-3 4.0	Lotus	13,500	E041551
Lotus 1-2-3 4.0 5 user	Lotus	54,000	E041552
Lotus 1-2-3 5.0	Lotus	12,000	E041555
Excel 5.0 Win	Microsoft	15,390	E041852
Excel for Win'95	Microsoft	15,390	E041856
Quattro Pro 5.5 DOS	Novell	2,950	E041699
Quattro Pro 5.5 DOS 10 user	Novell	29,950	E041700
softCALC/DOS	Softek	4,500	E04904
softCALC/LAN	Softek	15,000	E04905

OFFICE SUITES

ClarisWorks 3.0 Win	Claris	5,950	E041760
Notesuite Desktop	Lotus	24,000	E041589
Lotus SmartSuite 3.0 (Disks & CD-ROM)	Lotus	19,000	E041560
Lotus SmartSuite 3.0 5 user	Lotus	72,500	E041561
Lotus SmartSuite 3.0 10 user	Lotus	135,000	E041562
Office 4.2 Std	Microsoft	18,500	E041860
Office 4.3 Pro	Microsoft	23,500	E041862
Works for DOS 3.0	Microsoft	4,330	E041881
Works for Win 3.0	Microsoft	4,330	E041884
Works for Win 95	Microsoft	3,460	E041885
PerfectOffice 3.0 Std	Novell	22,950	E041692
PerfectOffice 3.0 Pro	Novell	29,950	E041695
Softek OFFICE/DOS	Softek	10,000	E04906
Softek OFFICE/Lan	Softek	40,000	E04907

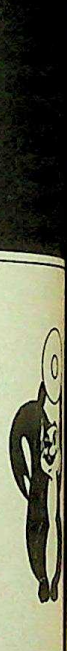
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Unleash Your Hidden Talent

ENTER THE

CSI-96 IT QUIZ



WIN THE CSI-96 TROPHY AND OTHER ATTRACTIVE PRIZES

Terms & Conditions

- Open to established corporate houses and registered companies
- A team consists of two contestants.
- A company can enter a maximum of two teams per region
- An entry fee of Rs.500/- per team
- Entries to reach by 15th May 1996
- Right to allow participation at the sole discretion of CSI
- The preliminary round (written) will be held at Ahmedabad, Bangalore, Calcutta, Hyderabad, Madras, Mumbai, New Delhi and Pune. Other centers dependent on response.
- For further details contact the CSI-96 Quiz Office.

Hurry, enter today!

Send your entries by giving the names and designation of the contestants on the company letterhead along with a Demand Draft drawn in favour of 'CSI-96' payable at Bangalore towards participation fee to the following address.

Final rounds may be telecast

CSI-96 QUIZ

Computer Society of India,
201 MBC,134, Infantry Road, Bangalore 560 001.
Tel : 080-571215 Fax : 080-5562971

CSI-96 Theme - India : The emerging IT giant.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

UTILITIES/ANTI-VIRUS

Product	Developer	Price	RQS No
Visual Baler	Techtools	14,590	E041537
Baler 6.0	Techtools	14,590	E041538
SpaceDicer 1.0	Techtools	43,990	E041543
Format	Central Point	16,990	E041544
PC Tools Pro DOS 9.0	Central Point	6,975	E04722
PC Tools Win 2.0	Central Point	6,975	E04723
Xtree Tools for NetWare 1.5	Quarterdeck	4,000	E04726
CleanSweep	Quarterdeck	2,290	E04862
Sidebar	Quarterdeck	2,890	E041530
WinProbe 4	Quarterdeck	3,290	E04864
DesqView	Sonata	4,490	E04865
PC Tools Pro DOS V9.0 3.5"/5.25"	Sonata	6,995	E04682
PC Tools Win V2.0 3.5"	Symantec	6,995	E04684
Norton Utilities 8.0 DOS/WIN	Symantec	6,400	E04662
NortonEditor 2.0 3.5"	Symantec	3,600	E04663
Norton Commander 5.0 DOS	Symantec	3,600	E04664
Norton Backup 2.2 DOS 3.5"	Symantec	5,400	E04665
Norton Backup 3.0 WIN 3.5"	Symantec	6,400	E04666
Norton Utilities Administrator/5-User	Symantec	8,400	E04678
Norton Utilities Administrator/25-User	Symantec	36,500	E04679
NAV for Win 95 3.5"	Symantec	3,600	E04680
Norton Utilities/Win95 3.5"	Symantec	6,400	E04681
Norton Desktop for DOS/WIN 3.0	Symantec	5,600	E04715
Norton Utilities 8.0	Symantec	5,600	E04716
Norton PC Anywhere DOS/WIN 5.0	Symantec	6,200	E04717
Stuffer 4.0	Unistal	3,990	E04713
Marg Darshak 1.0	Unistal	990	E04714
Anti-Virus			
CP Antivirus DOS 2.2	Central Point	4,500	E04724
CP Antivirus Win 2.0	Central Point	4,500	E04725
CP Antivirus for NetWare Dual 5 User 2.5	Central Point	19,950	E04727
CP Antivirus for NetWare Dual 10 User 2.5	Central Point	30,500	E04728
CP Antivirus for NetWare Dual 50 User 2.5	Central Point	110,000	E04729
IAVT 3.01/DOS/5.25"/3.5"	Fifth Generation	1,888	E04866
IAVT 3.01/LAN/5.25"/3.5"	Fifth Generation	1,888	E04867
Vaxine/MS-DOS/Win 3.1/95/ zero installation set	Microz AS	2,500	E04908
Vaxine/MS-DOS/Win 3.1/95/ one installation set	Microz AS		E04909
Vaxine/Novell NetWare 2.x, 3.x &4.x	Microz AS	8,000	E04910
NAV 10-User/NetWare 2.0 DOS/Win	Microz AS	18,000	E04911
NAV 50-User/NetWare 2.0 DOS/Win	Symantec	14,900	E04674
NAV 10-User/Networks 2.0/Win	Symantec	161,000	E04675
NAV 50-User/Networks 2.0/Win	Symantec	23,000	E04676
Norton Antivirus 3.0	Symantec	108,000	E04677
Norton Antivirus for NetWare 2.0	Symantec	4,050	E04720
Vaxinepack Rel 3.0	Symantec	13,975	E04721
	Nashsoft	5,495	E04712

WORD PROCESSORS

Lotus Amipro	Lotus	4,750	E041557
Word 6.0 for DOS	Microsoft	15,390	E041871
Word 6.0 for Win	Microsoft	15,390	E041873
Word Assistant for Win 1.0	Microsoft	2,030	E041877
Proofing Tools for Win/DOS	Microsoft	3,080	E041878
WordPerfect 6.0 DOS	Novell	9,950	E041683
WordPerfect 6.1 Win	Novell	14,950	E041685
softWORD/DOS	Softek	4,000	E04912
softWORD/LAN	Softek	15,000	E04913
Wordstar 7.0	Wordstar	2,990	E04685
Wordstar 6.0	Wordstar	1,990	E04686
Wordstar 4.0	Wordstar	990	E04687
Wordstar 6.0 (Server Pack)	Wordstar	1,990	E04688
Wordstar 6.0 (Node)	Wordstar	1,500	E04689
Wordstar for Win 4.0	Wordstar	1,500	E04690
Wordstar for Win 4.0	Wordstar	4,995	E046

Prices provided by:

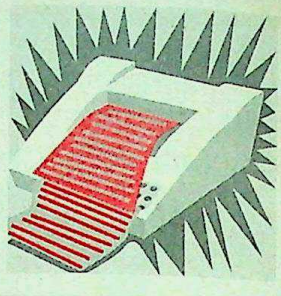
- **AutoDesk:** HOPE, B-1 Geetanjali Enclave, New Delhi 110017. Tel: 11-6851979, 6866441. Fax: 11-6866494
- **DesignCAD, Corel CD-ROMs:** Svam Software, 11 Abul Fazal Road, Bengali Market, New Delhi-110001 Tel: 11-3320224, 3731844 Fax: 11-3723266
- **IAVT/Rangoli:** Fifth Generation Software, 140, Zamrudpur, Opp. LSR, New Delhi 110048 Tel: 11-6210808, 6224997, 6229805
- **Microsoft, SCO, Borland, Novell, Corel, Lotus, Datastorm and Quarterdeck products:** Dynamic Computer Services, Sun Flower, 170 Lloyds Road, Gopalapuram, Madras 600086. Tel: 44-8272726, 8271684, 8272749; Binary Semantics, A-6, C Block Community Centre, Naraina Vihar, New Delhi 110028 Tel: 11-533544, 5415615 Fax: 11-5459406
- **Datastorm, Quaterdeck, Techtools, Internet products:** Unison Computer Systems, 164, Senapati Bapat Marg, Matunga(WR), Bombay 400016 Tel: 22-4374671
- **Oracle, Frame, Microsoft, Adobe, Borland, Corel, Frame, Macromedia, Novell, Lotus, SCO, Symantec, Central Point, Delrina, Softek, Unistal, TCS**: Tulip Software, J-31, South Extension, Part-I, New Delhi 110049 Tel:11-4620410, 4694591 Fax: 11-4610292
- **Micrografx:** Softek, M-42, Commercial Complex, Greater Kailash II, New Delhi 110048 Tel: 11-6415312, 6447308 Fax: 11-6482680
- **Microsoft:** Microsoft, 24 Paharpur Business Centre, Nehru Place, New Delhi 110019 Tel: 11-6460694 Fax: 11-6474714
- **Nashsoft Systems,** 101, Indraprakash Building, Barakhamba Road, New Delhi 110 001. Tel : 11-3721583
- **Netscape:** Wipro Systems, 88 MG Road, Bangalore 560080 Tel: 80-5588616 Fax: 80-5586952
- **Novell:** Onward Novell, Krislon House, 2nd Floor, Saki Vihar Road, Saki Naka, Bombay 400072. Tel: 22-8364180 Fax: 22-8364180
- **Lotus:** ITC, 28 Community Center, Basant Lok, Vasant Vihar, New Delhi 110057 Tel:11-6882556, 6872893. Fax: 11-6885339, 6872893
- **Oracle:** Oracle, 705 International Trade Tower, Nehru Place, New Delhi 110019 Tel: 11-6475286, 6475287. Fax: 11-6866494
- **Vaxine:** Microz AS Solutions, E-20 Purvasha, Ananad Lok, Mayur Vihar-I, New Delhi-110091 Tel: 11-2254567 Fax: 11-2256042, 2256931
- **CD-ROMs:** Lee & Nee Softwares, 14B Camac Street, Calcutta 700017. Tel: 33-4015153. Fax: 33-2477359
- Innoserv Systems, X-29 Hauz Khas New Delhi 110016. Tel: 11-6863058, 6968626 Fax: 696911

Attention: All prices were current at the time of going to press. Readers are advised to reconfirm with vendors before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PERIPHERALS



MODEMS

Product	Max Speed	Price	RQS NO
AT&T Comsphere 3810+	33,600	95,000	E041941
AT&T Comsphere 3920+	33,600	125,000	E041942
AT&T Dataport 2001	14,400	27,500	E041943
Motorola Lifestyle V34	28,800	19,000+T	E041234
Motorola 3266 V32 bis	28,800	51,000+T	E041235
Motorola 3266 V34	28,800	102,500+T	E041236
Motorola 3266 V34 SDC	28,800	128,000+T	E041237
Mutitech MT2834ZDX	28,800	18,950	E041947
Mutitech MT2834BL	28,800	39,950	E041948
Multitech MT1432BL	14,400	29,950	E04796
Nomus 9624 SE	2,400	7,500	E041949
Nomus 1414 PC	14,400	10,000	E041951
Nomus 1414 SE	14,400	12,500	E041952
Nomus 1414 SD	14,400	25,000	E041953
TeamLink 2024E	2400	7,000	E041935
Teamlink 2144E	14,400	9,500	E041936
USR Courier V.34	28,800	40,500	E041931
USR Sportster V.34	28,800	21,500	E041932
USR Sportster SP14400	14,400	13,500	E041933
USR PCMCIA Fax Modem	14,400	17,500	E041934
ZyXel Elite 2864	28,800	30,950	E041944
Sportster SP 28800 (E)	28,800	22,500	E04383
Sportster SP 28800 (I)	28,800	19,500	E04384
Sportster SP 14400 (E)	14,400	13,500	E04385
Sportster SP 14400 (I)	14,400	11,500	E04386
Sportster SI 14400 (E)	14,400	8,500	E04387
Sportster VI 14400 voice	14,400	17,500	E04388
Sportster PCMCIA World Port V.32 bis		17,500	E04389
Courier V.34	28,800	43,500	E04390
Microsense 14400 Data/Fax	14,400	11,500	E04391
Microsense 28800 Data/Fax	28,800	17,500	E04392

Note: Delrina software (DOS/Win) is supplied with US Robotics & Microsense modems

PLOTTERS

HP DesignJet 230(A1/D)^m	104,500	E041186
HP DesignJet 230 (A0/E)^m	140,500	E041187
HP DesignJet 250C(A1/D)^c	130,000	E041188
HP DesignJet 250C(A0/E)^c	175,800	E041189
HP DesignJet 600 (A1/D)^m	193,500	E041192
HP DesignJet 600 (A0/E)^m	228,800	E041193

Note: All enhanced mode plotters w/4MB RAM and 600 dpi resolution. ^{m}monochrome, ^{c}color, ^{e}enhanced mode

POINTING DEVICES

Product	Price	RQS No
Genius Easy Mouse	376	E041[illegible]
Genius Mouse One	615	E041[illegible]
Genius Mouse Two	729	E041[illegible]
Genius Mouse Three	701	E041[illegible]
Genius MyMouse Cobra/Leopard/Blue/Purple	894	E041[illegible]
Genius TrackBall	1,859	E041[illegible]
Genius Joystick	572	E041[illegible]
Primax Mouse I Musige	486	E041[illegible]
Primax Mouse II Musige	701	E041[illegible]
Primax Echo Mouse IV	379	E041[illegible]
Logitech First Mouse	825	E04[illegible]
Logitech Mouseman Combo	2,300	E04[illegible]
Logitech Mouseman Cordless	6,500	E04[illegible]
Logitech Trackman Portable	2,150	E04[illegible]
Logitech Trackman II	2,500	E04[illegible]
Vintron Mouse MD-14	575	E04[illegible]
Logitech Dexxa Mouse	525	E04[illegible]
Logitech Cyberman	5,500	E04[illegible]
Logitech Kidz Mouse	1,995	E04[illegible]
Logitech Mouseman Sensa	2,995	E04[illegible]
Logitech Trackman Voyager	2,995	E04[illegible]
Logitech Trackman Live	7,995	E04[illegible]
Logitech Trackman Marble	4,495	E04[illegible]
Logitech Trackman Vista	3,795	E04[illegible]

PRINTERS: DOT MATRIX

Epson LQ 100/24-pin/80 cols/240 cps	12,430	E04[illegible]
Epson LX 300/9-pin/80 cols/264 cps	10,600	E041[illegible]
Epson FX 1000/9-pin/136 cols/240 cps	15,500	E041[illegible]
Epson LX 1050+/9-pin/136 cols/240 cps	16,900	E041[illegible]
Epson DFX 5000+/9-pin/155 cols/560 cps	99,000	E041[illegible]
Epson DFX 8000/9-pin/136 cols/1066 cps	170,000	E041[illegible]
TVSE MSP 145Plus/9-pin/132 c	13,995+T	E041[illegible]
TVSE MSP 155/9-pin/132 cols	17,995+T	E041[illegible]
TVSE HD 6595/9-pin/132 cols	27,495+T	E041[illegible]
TVSE HD 6045/24-pin/136 cols	36,495+T	E04[illegible]
TVSE HD 6590/9-pin/80 cols	23,995+T	E04[illegible]
TVSE HD 6040/24-pin/80 cols	28,995+T	E04[illegible]
TVSE HD 5650/24-pin/106 cols	85,000+T	E04[illegible]
TVSE HD 5000/18 p/136 cols	98,895+T	E04[illegible]
TVSE MSP 240/9-pin/80 cols	8,995+T	E04[illegible]
TVSE Calligra Q10/24-pin/80 cols	14,995	E04[illegible]
TVSE Calligra Q20/24p/80 cols	16,995	E04[illegible]
TVSE Calligra Q25/24-pin/136 cols	22,495+T	E04[illegible]
TVSE Calligra Q35/24p/136 cols	27,995+T	E04[illegible]
Wipro LX 800/9-pin/80 cols	9,350	E04[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Wipro LX 300/9-pin/80 cols	9,800	E041262
Wipro LQ 100/24-pin/80 cols	14,200	E041263
Wipro LQ 300/24-pin/80 cols	15,600	E041264
WiproEX 1050/9-pin/132 cols	18,500	E041265
Wipro FX 1170/9-pin/132 cols	37,700	E041266
Wipro LX 1050/9-pin/132 cols	17,100	E041267
Wipro LQ 1050+/24-pin/132 cols	26,000	E041268
Wipro LQ 1170/24-pin/132 cols	39,270	E041269
Wipro LQ 1070/24-pin/132 cols	26,650	E041270

PRINTERS: INKJET

Canon BJ-10sx/360x360 dpi/110cps/34kB memory	9,995	E04875
Canon BJ-30/720x360 dpi/277cps/LCD-ROM display/ 35kB memory/m	15,995	E04876
Canon BJC-70/720x360 dpi/346 cps in m/35 k B memory/c	22,995	E04877
Canon BJ-200ex/720x360 dpi/248 cps/62 k B memory/m	11,995	E04878
Canon BJ-230/360x360 dpi/41 kB memory/248 cps/m	27,995	E04879
Canon BJC-4000/720x360 dpi/496 cps/c	24,995	E04880
Canon BJC-600/360x360 dpi/60 kB memory/240 cps	37,995	E04881
Apple Style Writer 1200	21,600	E041335
Apple Color StyleWriter 2200	32,000	E041336
Apple Apple Color StyleWriter 2400	36,000	E041337
Apple Color StyleWriter Pro	32,500	E041338
HP DeskJet 600/600 d/512 kB	18,000	E041171
HP DeskWriter 600/600 d/512 kB	18,000	E041174
HP DeskJet 850C/600 d/1 MB	28,889	E041179
HP DeskJet 1600C/8 p/600 d/4 MB	74,400	E041182
HP DeskJet 1600CM/8 p/600 d/6 MB	108,500	E041183
Epson Stylus 800 m	16,100	E041250
Epson Stylus 1000/A2 m	41,500	E041251
Epson Stylus 820/720 d/c	21,700	E041252
Epson Stylus Color IIS/720 d/c	26,500	E041253
Epson Stylus Color II/720 d/c	31,500	E041254
Epson Stylus Pro/720 d/c	44,500	E041255
Epson Stylus Pro XL/720 d/A3 c	131,000	E041256
Olivetti JP70/80 col/3p/portable	20,400	E04779
Olivetti JP170/80 col/3p	16,433	E04780
Olivetti JP470/80 col/5 p	25,500	E04781
TVSE NOVO 300/2 p	9,995	E04791
TVSE Impress P20/page printer/4 p	29,995	E04792

PRINTERS: LASER

Apple LaserWriter 4/600	55,000	E041339
Apple LaserWriter Select 360	85,000	E041340
Apple LaserWriter 16/600 PS	155,000	E041342
Apple Color LaserWriter 12/600	412,500	E041345
HP LaserJet 4+/12 p/600 d/2 MB	94,350	E041163
HP LaserJet LJ 4M+/12 p/600 d	127,500	E041164
HP LaserJet LJ 4V/16 p/600 d	130,050	E041167
HP LaserJet LJ 4MV/16 p/600 d	188,700	E041168
TVSE Impress P20	29,995+T	E041247
EpsonEPL 3000	34,000	E041248
EpsonEPL 9000 A3 Laser	172,000	E041249

Note d-dpi, c-color, m-monochrome, p-pages per minute

SCANNERS

Product	Price	RQS NO
Genius Easy Scan 256	4,290	E041381
Genius Scanmate Color	10,010	E041382
Genius Color Page II	50,050	E041384
Genius Fast Reader	20,020	E041385
HP ScanJet 4s	23,863	E04797
HP ScanJet 4c	66,145	E04798
HP Scanjet 4si(Ethernet)	169,789	E04799
HP ScanJet 4si(Tokenring)	180,882	E04800
Primax SP311/Datapen	14,300	E041410
Logitech Scanman 32	5,200+T	E04264
Logitech Scanman 256	7,650+T	E04265
Logitech Scanman Easytouch	10,750+T	E04266
Logitech Scanman Color	13,900+T	E04267
Logitech Scanman Powerpage	29,000+T	E04268
Dexxa GS 32 Scanner	4,900	E04269
Dexxa GS 256 Scanner	7,500	E04270

UPS SYSTEMS

APC BK 250I	250VA	7,950	E04237
APC BK 400I	400VA	12,350	E04238
APC BK 600I	600VA	15,500	E04239
APC BK 900I	900VA	28,050	E04240
APC BK 1250I	1250VA	36,250	E04241
APC BP 280I	280VA	9,750	E04242
APC BP 420I	420VA	15,500	E04243
APC BP 650I	650VA	23,450	E04244
APC AP 600I	600VA	28,250	E04245
APC AP 900I	900VA	44,900	E04246
APC AP 2000I	2000VA	99,000	E04247
AP600I	600VA	28,650	E04421
AP900I	900VA	45,000	E04422
AP1250I	1250VA	60,500	E04423
AP2000I	2000VA	94,500	E04424
AP600XLI	600VA	63,750	E04425
AP900XLI	900VA	73,350	E04426
BP1000I	1000VA	40,000	E04433
BP1400I	1400VA	51,500	E04434
MX3000W	3000VA	215,000	E04440
MX5000W	5000VA	297,000	E04441
Aegis/Online	1000VA	44,995+T	E04793
Aegis/Online	3000VA	99,995+T	E04794
Aegis/Online	5000VA	189,995+T	E04795
Powerchute Software AP 9001/Mac		4,300	E04445
AP 9007/Plus for Win		3,000	E04446
AP 9009/Plus for Win NT		4,300	E04447

OTHERS

Logitech Soundman 16	4,200+T	E04271
Logitech Soundman Wave	13,900+T	E04272
Logitech Fotoman Pixture	83,995+T	E04301
Logitech Scanman Pagerscan	27,995+T	E04302
Logitech Wingman Light	995+T	E04303
Logitech Wingman	1,995+T	E04304
Logitech Wingman Extreme	2,495+T	E04305
Logitech Thunder Pad	995+T	E04306

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE

DESKTOPS

Product	Price	RQS NO
APPLE		
Mac LC 475/4 MB/250 MB HDD/mono VGA	48,600	E041290
Mac LC 575/8 MB/250 MB HDD	96,200	E041291
MacLC 630/8 MB/350 MB HDD	96,200	E041292
Performa 580/8 MB/500 MB HDD	97,500	E041296
Performa 580/8 MB/500 MB HDD/CD-ROM	118,400	E041297
Performa 5200/8 MB/500 MB HDD/CD-ROM	151,300	E041298
Performa 6200/8 MB/500 MB HDD	110,000	E041299
Performa 6200/8 MB/500 MB HDD	130,600	E041300
Power Mac 6100/66/8 MB/500 MB HDD/ multiscan monitor	115,000	E041306
Power Mac 6100/66/16 MB/500 MB HDD/ CD-ROM/15" monitor	127,600	E041307
Power Mac 7100/80AV/16 MB/700 MB HDD/CD-ROM	143,200	E041308
Power Mac 7100/80/16 MB/700 MB HDD/CD-ROM	213,900	E041309
Power Mac 8100/100/16 MB/700 MB HDD/CD-ROM	292,700	E041310
Power Mac 8100/100/16 MB/1000 MB HDD/CD-ROM	348,800	E041311
Power Mac 8100/110/24 MB/2000 MB HDD/CD-ROM	295,000	E041312
Power Mac 9500/132/32 MB/2000 MB HDD/CD-ROM	492,100	E041313
Power Mac 9500/132/32 MB/2000 MB HDD/CD-ROM	517,000	E041314
Power Mac 7200/90/16 MB/500 MB HDD/CD-ROM	166,700	E041315
Power Mac 7200/90/16 MB/1000 MB HDD/CD-ROM	186,000	E041316
Power Mac 7500/100/16 MB/500 MB HDD/CD-ROM	162,400	E041317
Power Mac 8500/120/16 MB RAM/2 GB HDD/ CD-ROM	379,000	E04779
Power Mac 8200/120/16 MB/2000 MB HDD	240,000	E041318
Workgroup Server 8150/16 MB/1000 MB/CD-ROM	299,100	E041322
CHAMPION		
Pentium/120/8MB RAM/PCI VGA with 1 MB	66,950+T	E04762
Pentium/100/8MB RAM/PCI VGA with 1 MB	62,600+T	E04763
Pentium/90/8 MB RAM/PCI VGA with 1 MB	60,150+T	E04764
Pentium/60/8 MB RAM/PCI VGA with 1 MB	46,900+T	E04765
486 DX2/66/8 MB RAM/VGA with 256 kB	43,200+T	E04767

Note: Includes 1.44 MB HDD, 101 keyboard, 400 dpi mouse, SVGA mono monitor, MS DOS 6.22, Windows 3.11.

Product	Price	RQS No
COMPAQ		
Presario 510/486SX2/66/4MB RAM/420 MB HDD/modem 9.6kbps	75,000	E04918
Presario 524/486DX2/66/8MB RAM/420 MB HDD/ modem 9.6kbps	85,000	E04919
Presario 5226/Pentium/100 MHz/8 MB RAM/ 1GB MB HDD/14"c/modem 19.2kbps/Win 95/ Novell Perfect Works	155,000	E04920
Presario 9222/Pentium/100 MHz/8 MB RAM/ 1 GB HDD/ Win 95/Novell Perfect Works	175,000	E04921
Presario 9240/Pentium/133 MHz/8 MB HDD/ 1.2 GB HDD/modem 28.8kbps/Win 95 Novell Perfect Works	180,000	E04922
Presario 7212 CD-ROMS/Pentium/75MHz/1GB HDD/ modem 19.2kbps//Win 95/Novell Perfect Works	135,000	E04923
Presario 5222 CD-ROMS/Pentium/100 MHz/ 1 GB HDD/modem 19.2 kbps/Win 95/Novell Perfect Works/c	145,000	E04924
Compaq Contura 420C/486DX4/75 MHz/350MB HDD/MS DOS 6/ MS Win/MS Works	160,000	E04915
Compaq Contura 420 CX/486DX4/4 MB RAM/ 350 MB HDD/MS DOS 6/ MS Win	190,000	E04916
Compaq Contura 430 C/486 DX4/100 MHz	200,000	E04917
Compaq Contura 430 Cx/486 DX4/100	230,000	E04918

Note: All machines come with MS DOS 6.2, MS Windows 3.1, Tabworks, Mouse Pilot, CD-ROM drive, 14" SVGA color monitor

HCL BEANSTALK		
HPC 4200/486DX2/66/mono VGA/540 MB HDD	46,950+T	E04751
HPC 4300/486DX2/66/c/420 MB HDD/Fastracc/ MS Works/Red armour/NIIT Training	74,500+T	E04752
HPC 4400/486DX2/66/c/420 MB HDD/Fastracc/ MSWorks/pack of 10CD-ROMs/Bitfax & Bitcom for Win/RedArmour/NIIT Training/BBS subscription for 6 months	89,950+T	E04753
HPC 4600/486DX2/66/c/Fastracc/MS Works/ pack of 20CD-ROMs/NIIT Training/BBS for 6 months/Bitcomfor win/Bitfax for win	102,000+T	E04754

Note: c-SVGA color; m-Mono VGA. System config.: 4 MB RAM (4200, 4300 & RAM (4400 & 4600) 1.44 MB FDD, 101 keyboard, MS-Mouse , DOS 6.22, 3.11, Fastracc, MS Works, Red Armour.

IBM		
IBM PC 100/486DX4/100MHz/4 MB RAM/ 540 MB HDD	88,000	E04755
IBM PC 300/Pentium/100 MHZ/16MB RAM/ 850 MB HDD	165,000	E04756

Note: PC100 DOS/Win preloaded; PC300 DOS/Win, OS/2 Warp, Product asset Mgmt Tools

MODI OLIVETTI		
PCS30SX/386SX-40/2 MB/510 MB HDD	36,300	E04757
PCS40/486DX2-80/4 MB/540 MB HDD	49,500	E04758
PCS50/Pentium-75/8 MB/540 MB HDD	92,400	E04759
TULIP		
Tulip Vision Line/486DX2/66/8MB/540MB HDD/ SVGA color	83,000	E04774

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Tulip Vision Line/486DX4/100/8MB/540MB HDD/ SVGA color	91,500	E04775
Tulip Vision Line/WS/Pentium/75/8MB/540MB HDD/ Color monitor/mouse	103,000	E04776
Note: PC100 DOS/Win preloaded; PC300 DOS/Win, OS/2 Warp, Productiv- ity/asset Mgmt Tools		

NOTEBOOKS

APPLE		
Mac PowerBook 5300cs/8MB/500MB HDD/10.4" colour Claris Organizer	206,000	E041277
Mac PowerBook 5300ce 520c/32MB/1.26B HDD/ 10.4" color Claris Organizer	499,000	E041278
CHAMPION		
486 DX2/66/4 MB RAM/200 MB HDD/1.44 MB FDD/V GA mono/MS DOS 6.22/Win 3.1	65,000+T	E04913
GVC		
GVC 486DX4/4MB RAM/810MB HDD/1.44 MB FDD/ 9.5" TFT LCD-ROM Display/Trackball mouse/ DOS/Windows	175,000+T	E04914
GVC 586/P90/8MB RAM/810 MB HDD/1.44 MB FDD/Quad-Speed CD-ROM/Touch Pad mouse/ Windows 95/30CD-ROMs	290,000	E04915
GVC 586/P90/8MB RAM/810 MB HDD/ 1.44 MB FDD/Quad-Speed CD-ROM Drive/ Windows 95/30 CD-ROMs	320,000	E04916

Product	Price	RQS No
HEWLETT-PACKARD		
OmniBook 600/486DX2-50/4 MB/170 MB HDD	138,190	E041924
OmniBook 600/486DX2-50/8 MB/260 MB HDD	185,755	E041927
OmniBook 4000/486DX4-100/8 MB/340 MB HDD	176,350	E041928
OmniBook 4000/486DX4-100/8 MB/810 MB HDD	259,400	E041929
OmniBook 5000/Pentium-90/8 MB/1200 MB HDD	434,720	E041930
OmniBook 5000/Pentium-90/32 MB/1200 MB HDD	530,980	E041931
Note: All HP notebooks ship with MS-DOS 6.22 and Win for Workgroups 3.11.		
INNOVACE		
HB 300/486DX4/100/4 MB/540MB HDD/1.44 MB FDD	115,000	E04882
HB 600/Pentium/100/8MB/540 MB HDD/1.44 MB FDD	175,000	E04883
HB 370/486DX4/100/4MB/540MB HDD/CD-ROM	155,000	E04884
HB 770/Pentium/100/8MB RAM/540 MB HDD/CD-ROM	235,000	E04885
Note: All InnovACE notebooks come with a built-in joystick, 2 Type II/I Type III PCMCIA slots, sound card, speakers, microphone, 1 MB VRAM.		
MAGICBOOK		
MB 5 Plus/486DX2/66/4MB RAM/1.44 MB FDD/540 MB HDD/84 keys	120,000	E04770
MB 7/Pentium/90/8 Mb RAM/540 MB HDD/ 1.44 MB FDD/84 keys	1,50,000	E04771
MB 8/486 DX4/8 MB RAM/1.44 MB FDD/84 keys	165,000	E04772
MB 8 Plus/Pentium/100/8 MB RAM/540 MB HDD/ 1.44 MB FDD/84 keys	250,000	E04773
MODI OLIVETTI		
Echos48CP/486DX4-100/8MB/ 540/1.44/Dos/Win	263,867	E04778

...s Supplied By:

Apple: Odin Computers, A-16, Aruna Asaf Ali Marg, Qutab Institutional Area, New Delhi 110067 Tel: 11-6856701 Fax: 11-6863306

AT&T: Crompton Greaves, 8-E Rani Jhansi Road, Jhandewala Extension, New Delhi 110055. Tel: 11-3558237, 3558238. Fax: 11-7533038

Canon Printers: Network, D-10, Commercial Center, Poorvi Marg, Vasant Vihar, New Delhi 110057 Tel: 11-6886371, 6885472 Fax: 11-6877823

Champion Computers: 306, Eros Apartments, 56, Nehru Place, New Delhi 110019 Tel: 11-6426280, 6214751, 6404203 Fax: 11-6479669

Compaq: Big Bytes, J-107, NDSE-I, Tel: 11-4610601, 4602882 Fax: 11-4602881

Genius Primax & GVC: Vertex Infotech, D6, Qutab Hotel, Qutab Institutional Area, New Delhi 110016 Tel: 660060, 664194 Fax: 11-6116769, 6468797

Goldstar: Aditya Promoters, 4428, Ganesh Bazaar, Cloth Market, New Delhi 110006 Tel: 11-2511850, 2514079 Fax: 11-3261456

HCL Frontline, M-41, Greater Kailash-II Market, New Delhi 110048 Tel: 11-6423503, 6424779

Hewlett-Packard, 24 Paharpur Business Centre, Nehru Place, New Delhi-19. Tel: 11-6472311, 6472328. Fax: 11-6461117

InnovACE: Samtech Computers, 10A/27, East Patel Nagar, New Delhi 110008 Tel: 11-5734293, 5734226 Fax: 11-5734293

Logitech/APC/Ritika: Vintron, F-34 Okhla Industrial Area, Phase 1, New Delhi 110020. Tel: 011-6814520, 6813680, 6811980. Fax: 011-6810460 **APC UPSs:** Onward Technologies, Krishna House, 2nd Floor, Saki Vihar Road, Saki Naka, Bombay 400072 Tel: 22-8362097

Magicbook: Akash Electronics & Software, 14 Chirag Enclave, New Delhi 110048. Tel: 11-6416003, 6416005, 6416007, 6224601. Fax: 11-6467690.

- **Modi Olivetti,** D-4, Okhla Phase 1, New Delhi 110 020 Tel: 11-6814544 Fax: 11-6813292
- **Motorola Information Systems,** 108, Gavipuram Guttahlli, Off Bull Temple Road, Bangalore 560019 Tel: 80-6612973, 6612974 Fax: 80-6612977
- **Multitech Computers,** C-71, Anand Niketan, New Delhi 110021. Tel: 11-6886948, 6872396
- **Nomus Comm Systems,** S-19, National Plaza, RC Dutt Road, Baroda 390005. Tel: 265-327734, 327738. Fax: 265-333156
- **SCT Computers,** H-30, South Extn I, New Delhi 110049 Tel: 11-4635733 Fax: 11-4632517
- **TeamEngineers,** 2-2-647/227/C, CE Colony, New Nallakunta, Hyderabad 500013. Tel: 40-7614412. Fax: 40-7601728
- **TISL,** TISL Tower, Golden Enclave, Airport Road, Bangalore 560017. Tel: 80-5262355, 5267117
- **Tulip Computers,** V-13, Green Park Extn, New Delhi 110016 Tel: 11-6964753
- **TVS Electronics,** 10-B Phase I, Peenya Industrial Area, Bangalore 560058. Tel: 80-8395000. Fax: 80-8396334
- **Aegis:** TVSE, Bangalore
- **US Robotics:** Microsense Computers, #1, Community Centre, East Of Kailash, New Delhi 110065. Tel: 6410134, 6470619
- **Wipro & Epson:** Wipro Infotech, 88 MG Road, Bangalore 560080. Tel: 80-211141. Fax: 80-2270378 **Epson:** Reddington, SPL Gundy House, 95 Mount Road, Madras 600032 Tel: 44-2353313 Fax: 44-2352790
- **ZyXel:** XON Communications, 19 Casa Major Road, Madras 600008. Tel: 44-8260124, 82582336. Fax: 44-8283226
- While all prices were current at the time of going to press, readers are advised to reconfirm them with the vendors before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INDIAN

A compilation of positions advertised between 1 March and 31 March, 1996 in various Newspapers
$ Package ➤ Contact

PROJECT MANAGERS • BANGALORE • INFOSOFT
Qualifications : BS/MS IN COMPUTER ENGINEERING/SCIENCE. Experience : 4 YEARS $ Attractive ➤ C/O P.N. HIRIYANNAIAH, 516, "SHARMDA", GARUTHMAN PARK, BASAVANAGUDI, BANGALORE-560004 (DCH-05/03/96)

SOFTWARE-LARGE OFF-SHORE PROJECTS • CALCUTTA • RS SOFTWARE INDIA LIMITED
Qualifications : CICS, DB2, IMS, IEF, TELON Experience : 3-6 YEARS $ Attractive ➤ SALTLEC ELECTRONICS COMPLEX, PLOT-J1-11, BLOCK-EP, SECTOR V, SALT LAKE CITY, CALCUTTA-700091 (DCH-01/03/96)

SOFTWARE ENGINEER • BANGALORE • MINDWARRE
Qualifications : BE, ME OR MCA Experience : 3-7 YEARS $ Attractive ➤ SOFTWARE EXPORTS UNIT, NO. 13, 1ST MAIN ROAD, VASANTHANAGAR, BANGALORE-560052. (TOI-07/03/96)

PROJECT MANAGERS • PUNE • COMPUTERVISION
Qualifications : ENGINEERING GRADUATE Experience : 8-10 YEARS $ Attractive ➤ SAI CHAMBERS, 14 PUNE-BOMBAY ROAD, PUNE-411003. (DCH-08/03/96)

SOFTWARE PROFESSIONALS • BOMBAY • APTECH
Qualifications : RELEVANT Experience : 5 YEARS $ Attractive ➤ GANESH NATARAJAN, CHIEF EXECUTIVE, ELITE AUTO HOUSE, 54 A, SIR M VASANJI ROAD, ANDHERI (EAST), MUMBAI-400063. (TOI-11/03/96)

PROJECT LEADERS • NEW DELHI • STG
Qualifications : BE/MCA Experience : 4-7 YEARS $ Attractive ➤ 176, GAUTAM NAGAR, OPP. GULMOHAR PARK, NEW DELHI-110049 (TOI-13/03/96)

IT PROFESSIONALS • M.P. • TATA EXPORTS LIMITED
Qualifications : B.TECH ENGINEERS/MCA Experience : 2-4 YEARS $ Attractive ➤ PERSONNEL MANAGER, LEATHER COMPLEX, A.B. ROAD, DEWAS-455001. (M.P.) (HIN-13/03/96)

SOFTWARE ENGINEERS • BANGALORE • SPIKE TECHNOLOGIES INC.
Qualifications : C/C++/UNIX SKILLS, KNOWLEDGE OF VERILOG/VHDL Experience : 3 YEARS $ Attractive ➤ 889, 4TH CROSS, 7TH MAIN, HAL II STAGE INDIRA NAGAR, BANGALORE-560008. (TOI-13/03/96)

SOFTWARE PROFESSIONALS • DURGAPUR, ROURKELA • TCS
Qualifications : GRADUATE/POST-GRADUATE IN ENGINEERING/MCA/CA Experience : 2 YEARS $ Attractive ➤ DURGAPUR-HOTEL PEERLESS INN, CITY CENTRE, DURGAPUR-713216. ROURKELA-HOTEL MAYFAIR, PANPOSH ROAD, ROURKELA-769004. (TELG-14/03/96)

PROJECT MANAGERS • BOMBAY • CANBANK COMPUTER SERVICES LTD.
Qualifications : GRADUATES Experience : 8-9 YEARS $ Attractive ➤ INSTITUTE OF BANKING PERSONNEL SELECTION, POST BOX NO. 9443, PAPER BOX ESTATE, MAHKALI CAVES ROAD, ANDHERI (EAST), MUBAI-400093. (ET-12/03/96) (TOI-14/03/96)

SOFTWARE PROFESSIONALS • MUMBAI • RAYMATICS TECHNOLOGIES
Qualifications : ENGINEERS/SCIENCE GRADUATE/POST-GRADUATE Experience : 4 YEARS $ Attractive ➤ PLOT-A/172, KHAIRNA, (BEHIND GREATEX), T.T.C. INDL. AREA, M.I.D.C. NAVI MUMBAI-400703 (TOI-17/03/96)

HARDWARE DESIGN EXPERTS • BANGALORE • SAS
Qualifications : BACHELOR'S/MASTER'S DEGREE IN ELECTRONICS Experience : 5 YEARS $ Attractive ➤ 3008, 12TH B MAIN, 8TH CROSS, HAL-II STAGE, INDIRANAGAR, BANGALORE-560008. (TOI-18/03/96)

SOFTWARE PROFESSIONALS (TANDEM MAINFRAMES) • MUMBAI • TCS
Qualifications : DEGREE IN ENGINEERING/COMPUTER SCIENCE Experience : 2-5 YEARS $ Attractive ➤ PERSONNEL, LOTUS HOUSE, 6, NEW MARINE LINES, SIR, VITHALDAS THACKERSEY MARG, MUMBAI-400020. (TOI-18/03/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SIEMENS

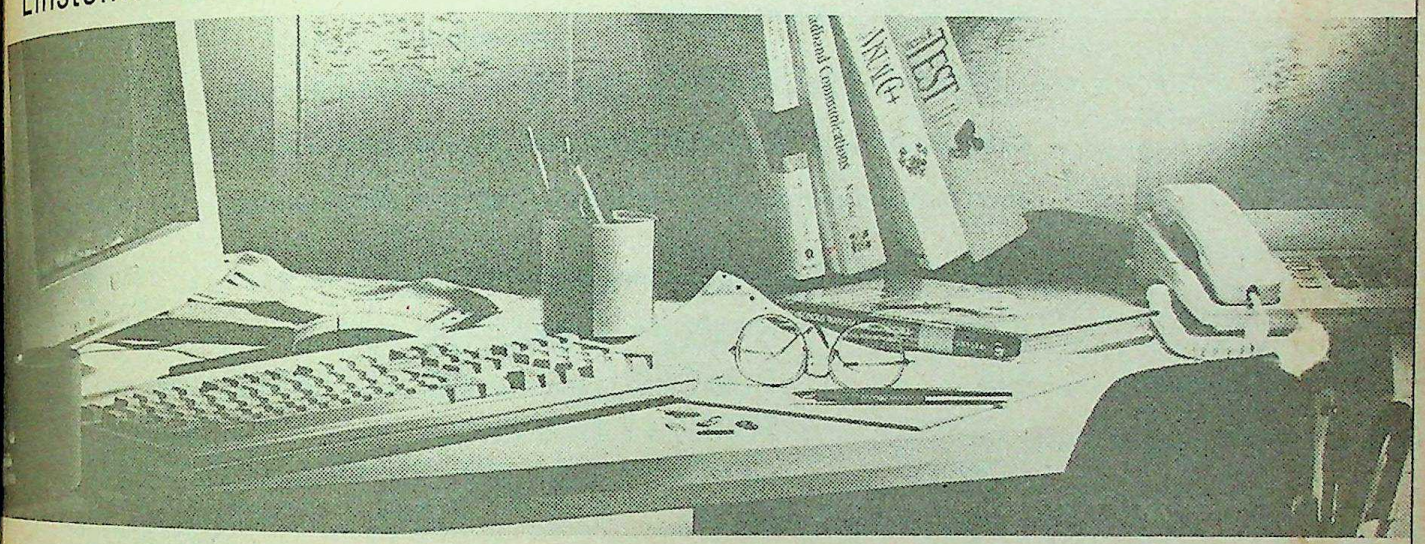
In short, software professionals who are thinkers and master strategists. Who can plot moves. Mastermind a project. And lead a team.

If you think you fit the description, welcome to Siemens Communication Software (SCS).

A 100% export oriented unit, it is a company that's zooming on the fast track. Consider the facts. Within a year, our employee strength will double to 400. And by 2000 AD, it is expected to be a staggering 1000.

At Siemens Communication Software, we would like to offer you an opportunity to work on the latest communication technology that will be used the world over. Like Telecommunications Management Network (TMN) and Multifunctional Switch Board (MSB).

Einstein. Patton. Kasparov.



Just the kind of software professionals we're looking for.

Besides, you will also get a chance to be in touch with engineers in several R & D software centres of Siemens, spread across the world. In Germany, USA, Austria and Portugal, to name a few.

Team Leaders / Experts

We are looking for software professionals with leadership qualities. You should have about 5-8 years' experience in software development of which 2-3 years should be in technical management. Work experience in areas like UNIX, WINDOWS, X-WINDOWS, OSF MOTIF, C/C++ and Object Oriented Analysis and Design is necessary. Exposure to Software Engineering Processes would be an advantage.

The compensation package will match the best in the industry. If you fit the bill, please send your bio-data, along with your passport-size photograph within 10 days to :

The Senior Manager - Human Resources
Siemens Communication Software Ltd.
10th Floor, Raheja Towers
26-27, M.G. Road, Bangalore - 560 001.

It could mean a great career move.

Siemens Communication Software Ltd.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

APPOINTMENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

DRIVE TO WORK
DRINK BAD COFFEE
SIT IN DULL MEETING
SKIP LUNCH
HANDLE NEW CRISIS
DRIVE HOME

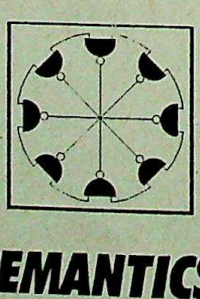
If you've been feeling that your career has been following a drab routine, and getting you nowhere, talk to Binary.

We, at Binary Semantics have a host of innovative and challenging assignments in USA, UK and Australia spanning several man years. Each assignment is an exciting opportunity using the latest computing resources.

We have immediate positions in several of the following environments:

RDBMS	: ORACLE 7, SYBASE, DB2, RPG . . .
GUI	: POWERBULIDER, VISUAL BASIC, FORMS 4.5, DELPHI . . .
OTHERS	: DESIGNER 2000, IEF (TI), ORACLE-CASE, RAD, C\C++, OS\2 (DEVICE DRIVERS), INTERNET PROGRAMMINGS . . .

If you have over 2 years experience, fax or mail your resumé, with complete project experience stating the duration (From - To), the environment, your role and contribution, your passport number, its expiry date, along with contact telephone numbers to Human Resource Group marking the envelope "S/W Dev":



BINARY SEMANTICS LIMITED

CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, *TEL:* 91-11-579 5615, 579 8069, 579 8078, 579 8084, *FAX:* 91-11-579 [illegible]
OVERSEAS OFFICE: PENNSYLVANIA STATE, P.O. BOX NO. 483, P.A. - 17001, *U.S.A. TEL:* 717-731-8468, *FAX:* 717-731-9857
BRANCHES: BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, *TEL:* 91-080-221 5785, 224 0222, 224 1222, 224 3283, *FAX:* 91-[illegible]
5885; *BOMBAY:* 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, *TEL:* 91-022-621 0867, 628 [illegible]
FAX: 91-022-670 5762; *CALCUTTA:* 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, *TEL:* 91-033-473 3109, 473 2101, *FAX:* 91-033-473 0687; *CHANDIGARH:* 14, [illegible]
CHAMBERS, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, *TEL:* 91-0172-706722, *FAX:* 091-0172-706043; *HYDERABAD:* 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY,
SECUNDERABAD - 500 026, *TEL:* 91-040-773 0399, *FAX:* 091-040-773 2811; *PUNE:* AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI [illegible]
411 030, *TEL:* 91-0212-44 8063, 43 2352, *FAX:* 91-0212-47 7829; *MADRAS:* 675, ANNA SALAI, 1000 LIGHTS, MADRAS - 600 006, *TEL:* 91-044-852 4438, *FAX:* 91-044-852 [illegible]

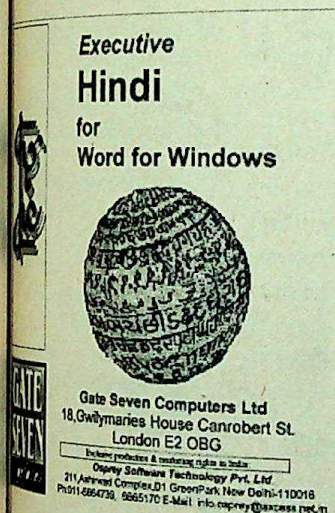
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SOFTWARE

Executive Hindi For Windows Word

Executive Hindi, an Indian script program from Gate Seven Computers, UK, is distributed by Osprey Software Technology India. This add-on for MS Word for Windows 6.0 uses a QWERTY layout-based keyboard and uses artificial intelligence to know when to enter a full vowel, conjuncts and half vowels. Executive Hindi is targeted for occasional users of Hindi. It needs a 386 with 4 MB RAM, Windows 3.x or higher, and is priced at Rs 9,000.



OSPREY SOFTWARE TECHNOLOGY, NEW DELHI
TEL: 11-6864739, 6865170
E-Mail: info.osprey@axcess.net.in

Reader Query Service #E0402

Ampersand Introduces Windows FA Package

Ampersand Software has announced Amon Financials, an Windows FA software. It includes inventory management and invoicing, with security and built-in data recovery. Amon Financials also provides for multiple company accounts, multiple voucher entry on a single screen, currency tracking and query, and has reporting and analysis facilities. This product is priced at Rs 7,000.

AMPERSAND SOFTWARE APPLICATIONS
TEL: 80-3334978
FAX: 80-3333891

Reader Query Service #E0403

AutoMate From Iterate

AutoMate is an automobile workshop and inventory management software developed by Iterate. AutoMate opens job cards, bills customers, analyses labor and gives an online update of stocks. It helps maintain vehicle repair recor-ds with a detailed servicing history, a list of changed components and records of the problems encountered with each vehicle. The workshop staff performance can also be analyzed and dealers can use AutoMate to evaluate performance.

ITERATE INDIA
TEL: 11-4626744
FAX: 11-4635490

Reader Query Service #E0405

Xpert Systems Unveils Almanac 2.0

Xpert Systems has unveiled Almanac 2.0, a personal information manager. Contact Manager helps executives plan their daily activities, including phone calls and recording expenses. Activities can also be organized on a daily, weekly, monthly or annual basis. Almanac's other features include a notepad, world time, unit time conversion, a search facility and drag and drop support.

XPERT SYSTEMS
TEL: 80-3310309
FAX: 80-2274699

Reader Query Service #E0406

Internet Access For GroupWise

Novell GroupWise Web Access, due in mid-1996, is a networked communication and information coordination product for the Internet. It allows access to GroupWise's Universal InBox for scheduling group meetings, listening to voice mail, sending and receiving documents, e-mail and faxes. Users can also read attachments from a workstation with an Internet connection and HTML 1.0-compliant Web Browser.

WebAccess takes advantage of existing UNIX, Windows NT or OS/2 Web Servers. It combines GroupWise Post Office, WebAccess and WebAccess Message Servers with a non-NetWare HTTP Web Server compliant with CGI.

The suggested retail price is $249 (10-users), $1,000 (50-users) and $1,999 (100-users). Organizations with 100 or more GroupWise licenses can purchase corresponding WebAccess licenses at the 100-user price.

ONWARD NOVELL, MUMBAI
TEL: 22-8351995, 8360715
FAX: 22-8214203

Reader Query Service #E0408

NetWare Web Server And NetWare 4.1 SMP

Onward Novell Software launched NetWare Web Server and NetWare 4.1 SMP at NASSCOM'96. The NetWare Web Server is available in the form of an NLM and when installed transforms an existing NetWare 4.1 Server into a Web Server. A WordPerfect Internet Publisher on HTML converter and a copy of NetScape Navigator are bundled with it. NetWare 4.1 SMP, a symmetric multi-processor version of NetWare 4.1, is supported by 18 major hardware vendors and supports up to 32 processors.

ONWARD NOVELL, MUMBAI
TEL: 22-8351995, 8360715
FAX: 22-8214203

Reader Query Service #E0407

VSI-Fax Client From V-Systems

V Systems has announced a Windows 95 version of its client software, VSI-FAX. Users will be able to send, receive, route and archive faxes automatically from any Windows 95 PC networked with a UNIX server. They can also fax directly from any Windows 95 application without printing the document or closing their on-screen file. Scheduling, logging, and automatic re-transmission features are built-in. Pricing for the Windows 95 client begins at $99.

V-SYSTEMS
TEL: 714-489-8778
FAX: 714-489-2486

Reader Query Service #E0404

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE

HP ScanJet 4p Color Scanner

HP has launched the ScanJet 4p, a low-cost color and grayscale scanner, in India at a list price of Rs 32,207. The bundled Visioneer PaperPort 3.0 allows users manage documents and images; launch over 75 applications using PaperPort links; and provides an integrated optical character recognition through Caere's Omni Page Lite. Also bundled is software to import scanned images into documents, color and grayscale copy utility and an image editor.

The ScanJet comes with a limited, one year warranty. The HP SupportPack, a warranty extension plan for an additional two-year period, is optional.

HEWLETT-PACKARD INDIA, NEW DELHI
TEL: 11-6472311, 11-6472328-30
FAX: 11-6461117

Reader Query Service #E0409

Fast Ethernet Products From UB Networks

UB Networks has announced an enterprise-wide Fast Ether-net solution. The series includes the GeoStax/FE Micro 100 Base-T hub, new versions of GeoRim/E Ethernet switch with 100 Base-T uplink, 100BASE-T adapters and Net-Director for workgroups network management solutions.

The GeoStax/FE hub is available in 100 BASE-TX (category 5 UTP and T4 (Category 3,4,5 UTP) versions with fault tolerant power supplies, RMON management and intrusion protection. The GeoStax (formerly Access/Stax) products are stackable workgroup hubs that also include the GeoLAN/500 ATM super switching hub and the GeoSwitch/155 ATM.

UB NETWORKS
TEL: 80-5584242

Reader Query Service #E0410

Actionpad II From DCM DataSystems

DCM DataSystems has introduced the ActionPad II notebook with a removable 2X CD-ROM with optional PC Video. It uses an Intel Pentium with 256 kB L2 cache, Flash ROM BIOS support and 8 MB RAM. It also features a built-in 16-bit stereo sound card, multimedia PC Level2 support, PC Card support and a docking station. The product is priced at Rs 200,400 for Pentium/75Mhz, Rs 208,000 for Pentium/90MHz and Rs 212,000 for Pentium/100MHz.

DCM DATASYSTEMS, NEW DELHI
TEL: 11-5739004, 5719967
FAX: 11-5755731

Reader Query Service #E0411

Gateway 2000 Pentium Pro from DCM Datasystems

The Gateway G6-200 with a 200MHz Pentium Pro processor is available in two models. These can be used as CAD, DTP, graphics and design workstations. Windows NT Workstation 3.51, MS Office 95 Pro and Encarta 95 are bundled with both models.

The Imperial has a 16 MB RAM, 1.2 GB E-IDE hard drive with FastPCI IDE controller, 64MB DRAM, a 6X CD-ROM drive and a Matrox Millenium Graphics Adapter with 2MB VRAM. It is priced at Rs 388,500. The Monarch has a 16 MB RAM, 2 GB SCSI hard drive with Adaptec PCI Ultra SCSI controller, 64MB DRAM, a 4X CD-ROM drive and a Matrox Millenium Graphic Adapter with 4 MB VRAM. It is priced at Rs 492,200.

DCM DATASYSTEMS,
NEW DELHI
TEL: 11-5719967-76
FAX: 11-5755731

Reader Query Service #E0413

Printer Ribbons From LST Raamco

LST Raamco has announced a printer ribbons for various printers available. These nylon ribbons and matrix ink is imported from Raamco Ribbon, USA. The EP-100 N ribbon, for Citizen, Epson, TVSE and Godrej printers, is priced at Rs 160 and the EP-1000 HD is priced at Rs 180.

LST-RAAMCO INDUSTRIES
BANGALORE
TEL: 80-645545
FAX: 80-6651066

Reader Query Service #E0414

Scanners From Microtek

Microtek has introduced two new scanners. The ScanMaker II is a flat-bed color scanner that scans color or black and white images at up to 1200 dpi resolution. TWAIN-compatible software, 'ScanWizard Desktop' (PCs) and 'Color it' (Macs) is bundled. The scanner allows users to add OCR software and an automatic document feeder. It requires a 386 or higher with 2 MB RAM and MS Windows 3.1 or Apple Mac II, SE30 or Quadra running System 7 or higher. It is priced at Rs 31,200.

The LS 8000 scanner has a wider than eight and a half inches and can be used for CAD/CAM or archiving large documents. It scans documents up to 8.5 inches wide at 800 dpi resolution. Bundled is ImageStar for scanning and image editing software. The LS 8000 also has raster to vector conversion facility and incorporates a CCD scanning technology. A user-definable 3D library assembly and image processing functions.

TRANSMATIC SYSTEMS, TRIVANDRUM
TEL: 471-433805, 432455
FAX: 471-432465

Reader Query Service #E0415

Low-Cost Pentium from CALS

CALS is offering Pentium/60 MHz with 4 MB and 8 MB for Rs 42,900 and Rs 44,900 respectively. A 486DX2/66MHz with 4 MB RAM is priced at Rs 39,000. All three models have a 256kB cache, PCI, 1.44 MB floppy drive, 540 MB E-IDE hard drive, 14" SVGA mono monitor, and DOS 6.22 pre-installed. They come with a 3-year equipment warranty.

CALS LIMITED, NEW DELHI
TEL: 11-6823031-33
Fax: 11-6823050

Reader Query Service #E0416

3Com's Office Connect

3Com has launched its Office Connect [illegible] working [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Wanted Partners

To explore the world of CD-ROM

leading Publication with a strong market resence wants to diversify in the field of ectronic publishing. The Company intends to ublish CD-titles for the national as well as the ternational market. Proposals are invited from dividuals or companies already in this field r fruitful / productive tie-ups. Previous owledge and expertise in the existing CD-le market is essential. Please send in your oposal along with company details and kind tie-up desired to :

he Advertiser

e PC QUEST, Post Box No. PCQ/APR/CMIL/1
-74, Panchsheel Enclave, New Delhi-110017

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

suite. Designed for offices with two to 20 PC's, it includes three 10 BaseT Ethernet hubs, three remote connect bridge/routers, a print server and a fax server. The modular design of these small units allows them to be clipped one on top of the other and kept on a desk. Silent in operation, the hubs come with a lifetime warranty.

3COM ASIA, NEW DELHI
TEL: 11-6835070
FAX: 11-6834662

Reader Query Service #E0418

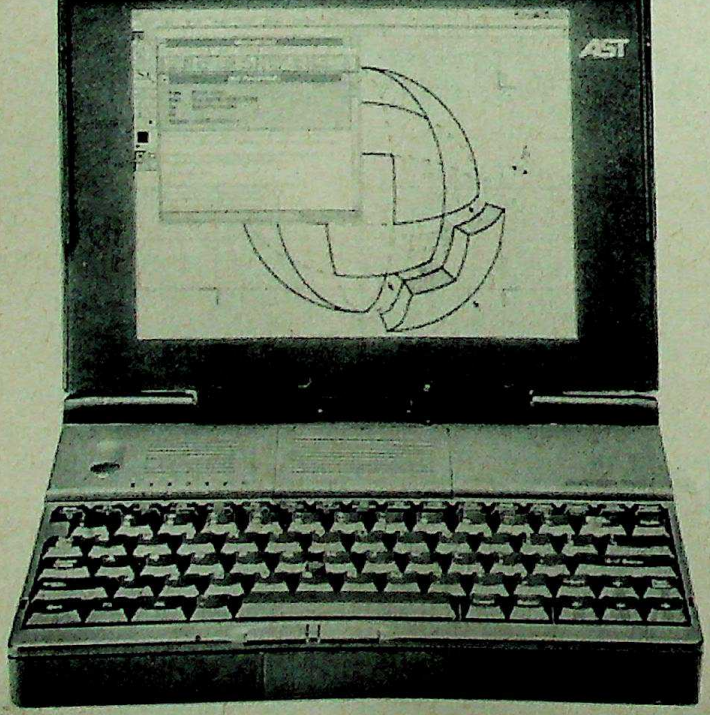
speaker, 4X CD-ROM drive, mic and speakers. Its other features include warm docking via a ProStation docking, 82-keys keyboard and a SmartPoint track stick. The 950N also has wireless or infrared communication capability. It weighs 2.9 kg and comes with a three-year warranty.

AST MIDDLE EAST-INDIA
LIAISON OFFICE,BANGALORE
TEL: 80-5292501-02
FAX: 80-5292503

Reader Query Service #E0412

AST's Ascentia 950N Pentium Notebooks

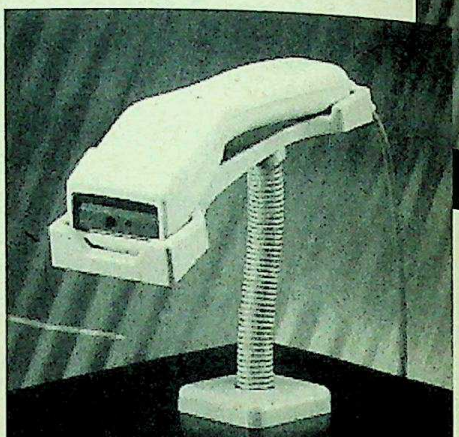
The Ascentia 950N ships with a Pentium/75MHz with 16 kB integrated and 256 kB external caches, 800..1.2 GB hard drives, 8 MB RAM, VL 32-bit local bus video with 1 MB VRAM, lithium ion battery with four hours of battery life, 10.4" SVGA TFT or SVGA DSTN screen, a SoundBlaster Vibra 16 with an internal 36mm



Metrologic Laser Bar Code Scanners

Basawa Technologies have launched Metrologic laser bar code scanners for retail and industrial applications. These have in-built decoders which can be interfaced with a PC using either RS232C, keyboard wedge, OCIA or light pen emulation. They are menu programmable and self-triggering.

The scanners are supplied as a complete kit with cables, a stand and a transformer. The models available include the Metrologic MS951, a handheld scanner, that reads up to a five inch depth, can be used as either movable or fixed orientation; and has a speed of 36 lines/second. It is priced



at Rs 28,000. Metrologic MS700i is an omni-directional scanner that reads up to a seven inch depth at 2000 lines/second. It is priced at Rs 62,000. Both products have a two year warranty.

BASAWA TECHNOLOGIES
New Delhi 110016
TEL: 11-6865599
FAX: 11-6969977

Reader Query Service #E0413

Color Monitor From Aditya Promoters

Aditya Promoters have launched the Goldstar Multi Synchronous Color Monitor 1467. This 14" monitor has a .28 mm dot pitch with a 65 MHz bandwidth and a resolution of 1024x768 in non-interlaced mode. It is priced at Rs 12,900. Aditya has also introduced StudioWorks Multimedia color monitors in 14" and 15". These have a high-tech design with built-in stereo speakers, audio amplifier, earphone and mic jacks

and volume
StudioWorks
Rs 13,900
Studioworks
Rs 21,200. L
models, the
17" and 20"
configurable
cessor memory
display controls
justment and
stored picture

ADITYA PROMOTE
NEW DELHI
TEL: 11-6223810,
FAX: 11-6227979

Reader Query Ser

National Semiconduc I/O Chips Wi Infrared Technology

National S
tor's Supe
the PC-
desktop
PC87338 for p
with integrated
frared technolo
infrared produc
designers supp
high-speed
transfer standa
Infrared Data
compliant de
change data q

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...chips could be used ...up fax machines and ...s in airports and ho... in bank ATMs, which ...ire an infrared inter... computerized trans... National's infrared ...range complies with ...rless infrared proto... users can select any ...d with their software. ...ips are also compat... infrared interfaces in ...eration machines. A ...tal TV remote mode in ...ips provides control ...s for TVs and VCRs.

...AL
...NDUCTOR,
...LORE
...5589467/8
...5589470

...r Query Service #E0422

...Low-Priced ...ium PC

...ewlett-Packard's ...Vectra VE Series 2 PC, ...with a Pentium 75-...133MHz, has several ...features. These include ...ted Data Out (EDO) ...and the synchronous / ...ronous L2 cache. Ease-...features include one-...PC startup and shut-...using the spacebar. The ...p Management Inter-...face on the Series 2 lets ...manage 250 features ...a network. This helps ...managers to update sys-...ware, provide techni-...port, track assets and ...tain security. The Vectra ...es 2 are desktops, with ...MB RAM. Some have ...disk drives with ...1.2GB capacity and ...are sold without hard ...The prices for machines ...ard drives range be-...Rs 104,566..165,952 ...se for machines with-...d drives range between ...24..120,610.

HEWLETT-PACKARD INDIA
LTD, NEW DELHI
Tel: 11-6472311, 6472328/30
Fax: 11-6461117

Reader Query Service #E0423

ADDRESSES:

3Com Asia
#426 Surya Best Western Hotel
New Friends Colony
New Delhi 110065
Tel: 11-6835070
Fax: 11-6834662

Aditya Promoters
Khemka Center, DDA Building,
2-5 Nehru Place,
New Delhi 110019
Tel: 11-6223810, 6223811
Fax: 11-6227979

Ampersand Software Applications
68, 14th Cross, I Block
RT Nagar
Bangalore 560001
Tel: 80-3334978
Fax: 80-3333891

AST Middle East India Liaison Office
No 27, 80 Seet Road,
HAL Sector III,
Indira Nagar,
Bangalore 560001
Tel: 80-5292501-02
Fax: 80-5292503

CALS Limited,
CALS House,
E-44/13, Okhla Phase II,
New Delhi 110020
Tel: 11-6823031-33
Fax: 11-6823050
e-mail: cals@axcess.net.in
voice mail: 11-3760510

DCM DataSystems Ltd,
4th Floor, Vikrant Tower,
4 Rajendra Place,
New Delhi 110008
Tel: 11-5719967-76
Telex: 31-61830
Fax: 11-5755731

Hewlett-Packard India Limited
Paharpur Business Centre
21 Nehru Place
New Delhi 110019
Phone: 11-6472311,
11-6472328-30
Fax: 11-6461117

Iterate India Pvt Ltd
C-21 Housing Society
South Extension Part I
New Delhi 110049
Tel: 11-4626744
Fax: 11-4635490

LST-RAAMCO Industries
288, 38th Cross
VIII Block Jayanagar
Bangalore 560001
Tel: 80-645545
Fax: 80-6651066

National Semiconductor,
Bangalore
1109, 11th Floor, East Wing,
Raheja Tower,
MG Road,
Bangalore 560001
Tel: 80-5599467/8
Fax: 80-5589470

Onward Novell Software
Marwaah Bhavan, Saki Vihar Road
Bombay 400072
Tel: 22-8351995, 8360715
Fax: 22-8214203

Osprey Software Technology Pvt Ltd
211, Aashirwad Complex,
D-1/B, Green Park,
New Delhi 110016
TEL:11-6864739, 6865170
NET:info.osprey@axcess.net.in

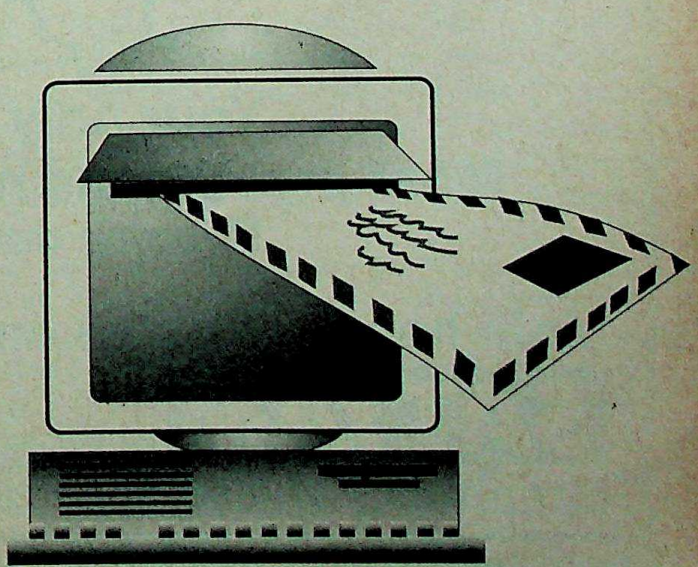
Transmatic Systems
Golf Links Road, Kowdiar
Trivandrum 695041
Tel: 471-433805, 432466
Fax: 471-432465

UB Networks
The Central Park
Wall Street Business Center
Dickenson Road
Bangalore 560042
Tel: 80-5584242

V-Systems
32232 Paseo Adelanto, Suite 100
San Juan Capistrano, CA 92675
USA
Tel: 714-489-8778
Fax: 714-489-2486

Xpert Systems
27/2, XVII Cross
Malleshwaram
Bangalore 560055
Tel: 80-3310309
Fax: 80-2274699

Basawa Technologies
5, Sarv Priya Vihar Market,
New Delhi 110016
Tel: 11-6865599
Fax: 11-6969977

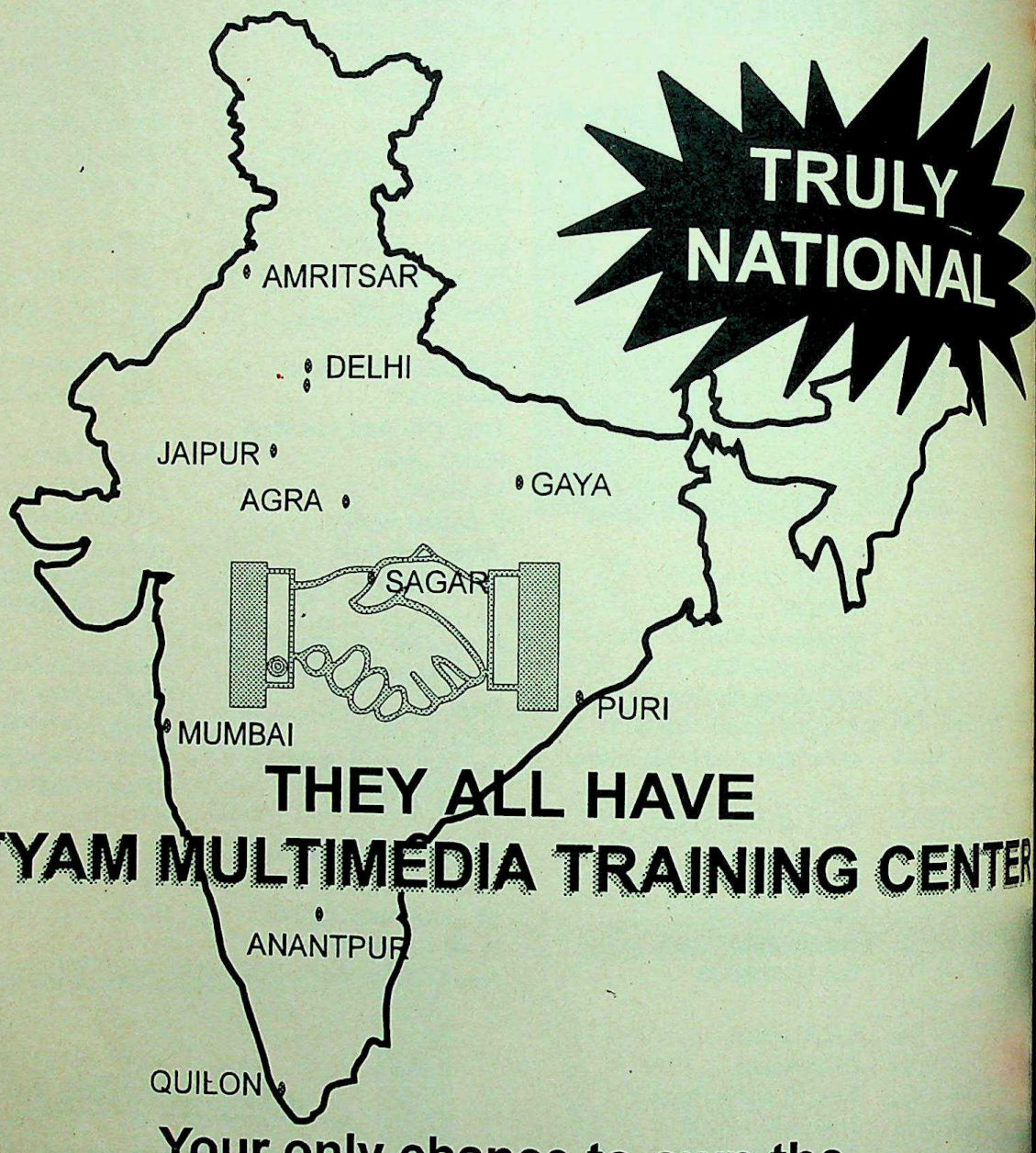


CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHAT IS COMMON AMONG

AGRA, AMRITSAR, ANANTPUR, PURI, DELHI, JAIPUR, MUMBAI, QUILON, GAYA, SAGAR



THEY ALL HAVE SATYAM MULTIMEDIA TRAINING CENTER

Your only chance to own the Most prestigious name in Multimedia Training

Become our franchisee to prosper

&

Join hands with the only National Multimedia Company

SATYAM Graphics Pvt. Ltd.

B-61, KALKAJI, New Delhi -110 019
Tel: 6228217, 6483187 **Fax**: 6478760.

Training Centers:JAIPUR, 81, Gaurav Nagar, Civil Lines, Ph.381922; **NEW DELHI,** B-61, Kalkaji Ph. 6228217,6483187; 401, Bld., J block Main market Saket Ph. 6963777; **SAGAR**, Civil Line; **GAYA,** Vijay Nagar; **AGRA;AMRITSAR; PURI; ANANTPUR; MUMBAI; JHANSI; NASIK; DURGAPUR**.....

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ashing The Terabit arrier

his will go down as one of the most important breakthroughs in information transmission history.

In March 1996, information technologists crossed ndmark data transfer speed of one terabit per second, ugh a standard optical fiber.

That's a trillion bits—1,000 gigabits, or a million mega- per second. Enough capacity to transmit all of 1,000 s of a 30-volume encyclopedia in exactly one second.

ree teams of scientists from AT&T Bell Labs, Fujitsu, Japan's Nippon Telephone & Telegraph made the an- ncements at the International Conference on Optical r Communication in San Jose, California, in March. h team had developed a different way to accomplish the -fold increase over current transmission capacities of e-optic lines.

t probably will be several years before the lab experi- ts are implemented in the backbone of the world's kbone systems. Still, the announcements stunned ex- s who had not expected to achieve one terabit capacities l after the turn of the century.

"This is the optical technology equivalent of how plate nics reshapes the globe," said Charles Brackett, execu- director of optical networking research at Bell Commu- ations Research in New Jersey. "This will create huge ges. Once we get that kind of capacity in the field, you t just as well have your database in California if you're k in New York, as have it next door. Data will move that between the two."

Fiber-optic lines today carry only a single wavelength of light at a time. Switching systems are able to turn the light on and off about 2.5 billion times per second (2.5 Gbps—gigabits per second). Fujitsu is expected to launch field systems this year that operate at about 10 Gbps. It is believed that 10 Gbps approaches the limit for existing switching systems.

The three research teams who pushed the rate to 1 terabit per second have done so by sending more than one wavelength at a time through the line. The only differences between the three efforts was in the methods and the distances over which they sent the data.

Oracle Chief Predicts End Of PC Era

Brushing aside recent comments from Intel chief Andrew Grove, Oracle CEO Larry Ellison boldly predicted this week that the era of the personal computer is almost over and the age of the stripped-down network computers is about to begin.

Ellison, of course has been promoting his idea of inexpensive network computers that will be used for tasks such as word-processing, electronic mail and hooking up to the Internet and World Wide Web.

Ellison, who displayed a prototype of Oracle's network computer last week, said he expects that shipments of network computers will start in the third quarter of this year. "I believe that the dominance of the PC will prove to be a temporary transitional phase in the information age, not unlike steam power in the industrial age. I believe the era of the PC is almost over and the era of the network computer is about to begin," he said in a speech to the Commonwealth Club of California.

The network computer will not replace the personal computer. Ellision said it's ideal for only a few of the thousands of apps a personal computer could be used for: Internet use, electronic mail, video telephony. "But these tasks may account for 95 percent of all PC use," he said.

"Network computers will be so good at these important tasks and so inexpensive that they will soon outnumber PCs," he said.

Ellison said personal computers are "unnecessarily complex". With network computers, by contrast, software and data would be stored on huge network servers administered by a system operator such as a telephone or cable television company.

Ellison predicted that NC prices will fall to as little as $200 or $300 within two years. In many cases, Ellison predicted, home users will be able to get their NC system free, as telephone and cable television companies will give customers network computers and charge a monthly network fee of around $15 to $20 per month for using it.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Ellison said the concept of NCs is rapidly gaining acceptance, even among many in the industry who initially voiced skepticism. "We've talked to every major computer manufacturer in the world about making network computers. Not all of them have said 'yes' but none of them has said 'no.' People are looking for an alternative to Microsoft to supply end-user software."

Intel chief Andrew Grove recently dismissed the idea of network computers saying few users will accept the limited uses for the machine at a time when consumers are demanding the highest levels of multimedia capabilities from their home PCs.

Floppies Touch 120 MB

They look just like floppy disks, but it takes 80 standard floppy disks to match the storage capacity of the new LS-120 floptical disks launched this week by 3M and Matsushita-Kotobuki. They store 120 MB of data.

As internal hard disk storage capacities swelled nearly a thousand fold in the past decade, most floppy disk storage capacity remained at 1.44 MB. Floptical disks, which use magnetic media but optical tracking, have been around in 20 MB capacities for several years, but have failed to become very popular.

The new 120 MB floppy disks and the new $200 drives that operate them have the computer world spinning with anticipation.

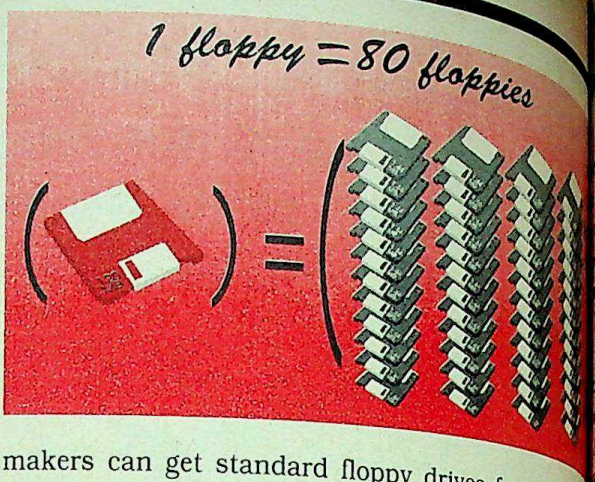
Already, Compaq Computer has decided to put the new high-capacity floppy drive in two of its Deskpro office computers as a standard feature starting April 2.

Like the previous flopticals, the new drives read both traditional 3.5" floppies as well as the new 120 MB floppies which will be sold at an initial retail price of $20. That is important for developers who need the inexpensive 1.44 MB floppies (about $0.5) to distribute their software.

The new floppy also combines optical and magnetic storage technology to cram bits of data into place. At 3M's Oklahoma factory, the LS-120 disks are etched with a series of optical "stitches," or tracks, to guide the drive's heads. "Laser servos" (hence LS) will move along the optical stitching much as magnetic servos do on today's floppies.

The new floppies may be able to reduce the need for consumer to purchase expensive, multi-gigabyte hard drives in order to build multimedia files which often measure 50...100 MB each. Just like the days when 20 MB hard drives were state-of-the-art, and a 1.44 MB floppy could store large files, the new floppies could enable computer users to store large photo libraries. And they will revitalize the back-up data storage segment. Today, many computer users have simply stopped backing up their hard disks because they don't have the time or energy to feed hundreds of disks into their floppy drive.

The LS-120 floppies will probably sell for about $18, but the price will drop significantly as volume production begins. More significant is the cost of the LS-120 drive. Computer



makers can get standard floppy drives for about $2[illegible] new high-capacity drives will run about $200 retail, possibly as much as $120 wholesale.

Competition for 3M and Matsushita is not far off. Mitsumi Electronics has demonstrated a 128 MB disk at a technology show four months ago that company promised to bring to market late this [illegible] Hewlett-Packard announced last week that it would [illegible] installing Iomega's Zip drive in some of its high-end consumer computers; Zip cartridges can hold 100 megabyte data.

Intel Outlines MMX Multimedia Standard

Much to the dismay of the software industry, Intel Microsoft have decided to put on a slow-motion technology striptease show in which they slowly reveal critical new hardware and software standards technologies that will determine the future direction of PC industry.

This week, Intel announced details of its MMX multimedia instruction set. MMX represents the biggest alteration the x86 architecture since the 386 chip. It will enable makers to build machines that offer much improved sound and video without requiring add-on products boards such sound cards.

The MMX instruction set was described this week at Intermedia trade show in San Francisco by Fred Pollack, Intel research fellow, who showed off the MMX code-[illegible] "P55C" Pentium microprocessor' Intel is expected to [illegible] this year.

Several additional key PC standards are expected be announced over the next three to six months by Intel and Microsoft, a process that is forcing software companies to put many application development programs on hold. Some of the standard issues still unveiled include three-dimensional graphics, modems can transmit data and voice at the same time, multiple connections of peripheral devices such printers and scanners. Microsoft, meanwhile, has demonstrated its "Direct 3D" software standards that it it easy for programmers to create three-dimensional graphics.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Software and hardware companies, however, are desperfor the two industry leaders to reveal the technical details ll of their new technologies so they can start building faster multimedia software The longer Intel and Mishould wait to show all of their new technologies, the longer ll be before new software will be created.

Intel is making technical data on MMX available on world wide web site: http://www.intel.com. Intel VP ichael Aymar says Intel cannot announce the details of the r program at this time because they aren't finalized yet. Aymar said Intel will make haste in incorporating the technologies in its processor families. The MMX code be included throughout Intel's entire product line, from end to high end, in less than 15 months, including the ium Pro chip which will become MMX compatible in 7.

MMX is the outcome of a compromise technology agreeent between Intel and Microsoft following a year of contro- surrounding Intel's plans for "native signal processing" 's NSP programs was aimed at transferring the respon- ity for sound, video, graphics and other multimedia ctions to the CPU.

With that move, Intel made an uninvited incursion into rosoft's software domain as NSP conflicted with Windows ode. Six months ago, the two computer industry giants ched out agreements to settle the dispute.

eral chip makers are expected to accept or mimic Intel's nology in their own microprocessors. Advanced Micro ices has licensed the multimedia chip instruction set Intel, but Cyrix has not yet done so. Tim Bajarin, ident of Creative Strategies market research firm, said stry acceptance of the technology is inevitable because e new applications it creates for the PC.

ew Alternative To irewalls

n March 27, US-based Digital Secured Networks Technology (http://www.dsnt.com.) demonstrated at MIT's Conference on Freedom and Privacy) the rtress, a new hardware solution for secure point-to- IP-based corporate datacom.

he NetFortress is claimed to:

ly protect against IP spoofing and scanning, depriving ers of their most effective weapons (which can some- penetrate conventional firewalls).

crypt at the network layer, a technological improvement other network products that encrypt at the transport application layers.

egrate automatic key exchange and IP authentication a seamless hardware solution. Keys automatically change y 24 hours.

erate transparently to the user and outside world.

duce corporate security systems to a plug and play, self- guring box, eliminating the maintenance and monitor- required by firewalls.

According to DSN founder and chairman Dr Aharon Friedman, with the value of information stolen from the Internet reportedly reaching $10 billion annually, companies should be extremely wary of relying on security products originally intended for private networks, such as firewalls, to secure data on public networks.

US To Speed Up Internet For Priority Users

The US National Science Foundation (NSF) is trying to enable "priority" Internet users to bypass lines congested with millions of surfers and other "low priority" traffic.

The Internet was, of course, developed from a military network to allow scientists, engineers, and educators to communicate scientific and other data between their research centers. With tens of millions of non-traditional users now hooked into the Internet, the data highway often resembles Bombay during morning and afternoon rush hours. The commercialization of the World Wide Web, the multimedia portion of the Internet, has in particular slowed cybertraffic. In 1995, alone, subscriptions to US online services grew nearly 65 percent last year, to almost 15 million users.

To let scientists bypass the congested traffic lanes, the NSF said it will offer grants of $350,000 to scientists and engineers to upgrade Internet computer networks to take advantage of technology designed to speed the flow of scientific and technical data over the Internet.

"The technologies are at the experimental stage, and we want to move them into trial and production," said Mark Luker, a computer expert at the NSF.

In recent years, researchers and engineers have complained that the explosive popularity of the Net is hampering a variety of projects, especially those requiring speed, such as scientists using remote controls to operate radio and optical telescopes or electron microscopes. Attempts to link several super computers to perform complex calculations can also be stymied.

"There are many people with high-performance applications out there who are still in the dream stage," Luker said, noting the Internet lacks the capacity for such projects.

The NSF expects the new technology will help to prioritize Internet traffic—much like a person today who mails a package has the option of sending it via overnight mail, first-class service, or third-class service.

The NSF grants are aimed primarily at the hundreds of network service providers that operate computer networks both on and off university campuses. The NSF will likely spur development of switches and routers to ease information bottlenecks.

SVNS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

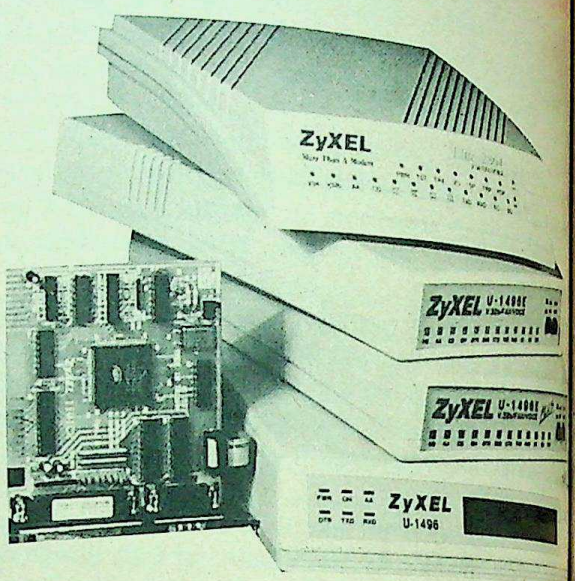
WHICH ZyXEL IS YOURS

Almost every true Data Communication Professional trusts & swears by ZyXEL; The Voice/Data/Fax Modems that connect and work where every other Modem has failed.

ZyXEL! the Datacom Professionals choice is now available in India in a wide range of models from 14.4 kbps to 28.8 kbps.

Pick up the Model/s, best suited to you and get a very pleasent surprise - that ZyXEL data communication can be so fast, efficient reliable and cost effective.

This is ZyXEL reliability.



Another pleasent Surprise! We offer all connectivity in a matter of Days.

Just Fax us your All-India requirement, incl addresses of locations to be connected thr out the country.

Team ZyXEL is ready, waiting and want to say

This is ZyXEL Service.

ZyXEL

VOICE/DATA/FAX MODEMS

WITH CELLULAR SUPPORT

EDP AIDS PVT LTD

B-32, Lajpat Nagar-2
New Delhi-110 024
Phones (11) : 683 3192, 684 6299, 684 6
Fax: (11) : 684 6299
E-Mail (Sprint Mail) : edp.aids/edpa
X-400 : (C:IN,A:VSNL,P:SPRINTRPG,
O: EDPA, FN:EDP,SN:AIDS)
Internet : edp.aids@edpa.sprintrpg.sprint.com

* Associates: Xon Communications Pvt. Ltd.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PCs In Over A Third of US Households

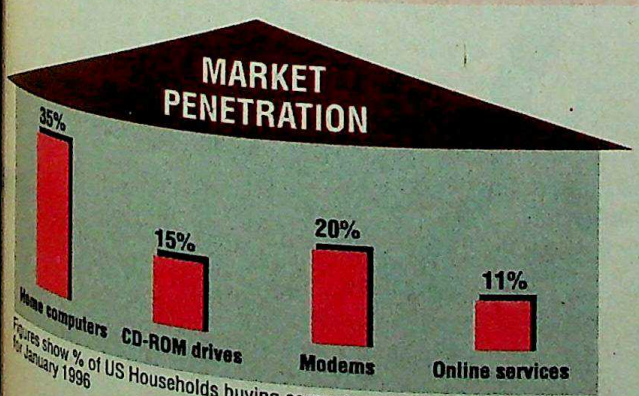
The consumer-driven PC buying-frenzy of 1995 has pushed the penetration level of personal computers to 35 % of all U.S. households, a 3% increase from July 1995. And on average, PCs are used 45 hours per month, up from 35 hours, according to the latest survey conducted by Odyssey in a national survey of 2,000 households.

Odyssey, a market research firm focused on studying consumers, technology and at-home information and entertainment. Odyssey president Nick Donatiello said the study shows the market for home computers remains strong. In fact, intent to buy is stronger now than a year ago or even six months ago. A larger %age of households without a PC indicated that they were extremely likely to buy a computer in the next six months, than in previous editions of the bi-annual "Homefront" study.

American families have begun to buy more computers over the past two years. In July 1994, 27% bought a computer, whereas a year later the percentage had risen to 32%. In the same period, the number of families that bought CD-ROM drives went up from 6% to 13%, whereas the number of modem buyers went up from 14% to 18% and the number of subscribers to online services rose from 6% to 9% The chart shows the figures for January 1996.

Some of the highlights of the Odyssey study include:

- Consumers are less concerned with whether the computer they are considering represents the latest technology or can run the new Windows 95 operating system.
- Five months after its release, Windows 95 has penetrated 16 % of PC households.
- Roughly half of those who bought personal computers in the last six months are new to the home PC market. "That number has been relatively stable over the last couple of years," said Donatiello. "PC hardware manufacturers are doing a good job of continuing to draw in new users, which is extremely important for software companies and online services."
- 27% of U.S. households with personal computers bought their first computer in the last two years.
- The percentage of PC households with more than one computer has risen to 28% of PC households.



Thousands Fall Victim To PC Cache Scam

If your hot new PC seems a lot slower than advertised, chances are you're a victim of a spreading PC chip fraud scheme in which valuable SRAM memory chips are replaced with fake chips. Worse, most user may never know the difference.

Already hundreds of computer buyers in the U.S. England, Canada, New Zealand, Massachusetts and Australia have fallen victim to the scam, Thousands more unsophisticated computer buyers may not even be aware of the problem, not knowing how fast their computer is actually supposed to operate.

The replacement of the SRAM chips often goes unnoticed because they mostly serve as the system's cache memory. Besides replacing the SRAM chips, the scam artists also alter the software set-up of the PC, essentially "turning off" the cache memory function. As a result, the computer will operate seemingly normally, but at a much reduced speed.

Charles Salzenberg in Palm Harbor in Florida is but one of the victims. The high-powered computer he bought in November didn't have the power he expected. Salzenberg, a programmer, had the wits to test the machine. That is when he discovered that the computer's cache didn't work and the 256K SRAM chips had been replaced by fake chips.

It isn't clear how widespread the practice is or just exactly who is supplying the fake parts. Law enforcement officials say they haven't heard much about the scam nor have the largest manufacturers of memory chips. The geographic diversity of the complaints, rather than the numbers, is the biggest sign of widespread fraud that could—and probably already has—infiltrated into the homes of computer users everywhere.

In many cases, the cacheless computers come right out of the generic PC fabs. In other cases the switching occurs at dealer level. In many cases the practice is used to lower system cost, in order to lure unsuspecting buyers with seemingly attractive prices. Some dealers simply order computers without the Cache chips, insert fake chips and sell them as cache containing PCs, figuring the buyer will never know the difference.

Steve Singer, owner of a distributor store in Tampa, Florida confirmed the chip scam allows his competitors to sell machines for lower prices. "We tested one in the store, and the chips were just fake," he said. "I'm not selling this

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

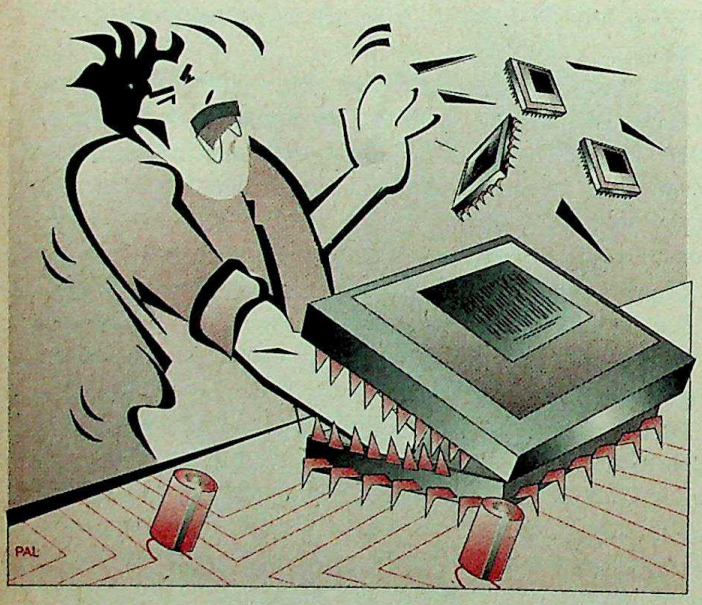
board, but I believe my competitors are."

Authorities fear that opportunities for fraud are huge as computers reach the non-technical public. Many consumers don't know enough about their computers to figure out if they've been victimized or not. "These thieves will stop at nothing," said Marylu Korkuch, a spokeswoman for the Technology Theft Prevention Foundation. "They're so clever, they just change their scam slightly and move on to something new."

So far, no brand-name computer makers have been implicated in the SRAM scams.

System To Prevent Chip Theft

Just two weeks after police arrested over 100 suspected chip robbers in Silicon Valley, I.D. Matrix a subsidiary of RVSI (Robotic Vision Systems announced its new VS-1 read station product is now being marketed as an aid



in preventing semiconductor chip theft.

I.D. Matrix standalone, in-tray verification station system reads coded serial numbers on individual chips, thus allowing both chipmakers and law enforcement agencies to trace and identify stolen components. It uses two-dimensional (2-D) bar codes on nickel, plastic or ceramic surfaces of semiconductor devices.

The VS-1 station quickly reads these marks and identifies the components' origin. Thus, any marked chip can be positively identified to determine whether it has been stolen. I.D. Matrix reports that in the first few weeks since its launch, 36 of the $12,000 VS-1 systems have been sold. One large semiconductor manufacturer has ordered read stations for nearly all its plants worldwide, and significant interest has been expressed by other customers.

Until now, stolen chips are easily laundered through a sophisticated network of distributors, changing hands as many as 18 times in 72 hours as they make their way back into the legitimate market, officials say. The main contributor to this illegal traffic is the fact that the chips have no individual serial numbers, and therefore, no way of being traced.

Serial numbers can be printed on ICs or electronic components in the form of a permanent, machine-readable mark. The marks are less than an eighth of an inch square, resemble scrambled checkerboards, and typically contain 60 characters of information.

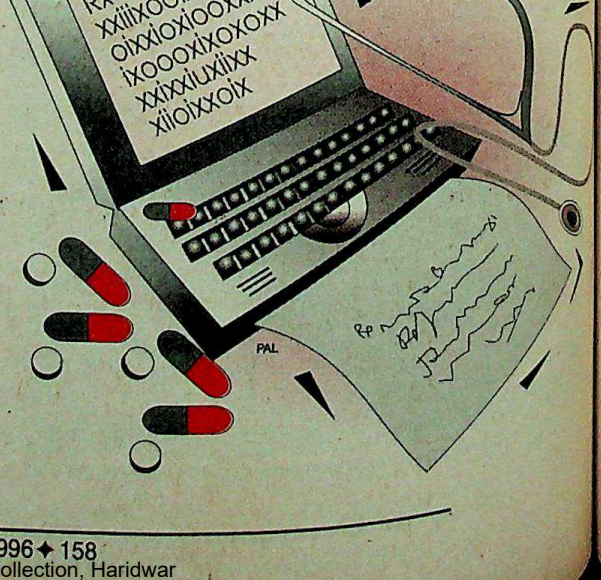
Semiconductor Equipment and Materials International (SEMI) has adopted Data Matrix as its standard for coding silicon wafers and for wafer box labels, and the Electronic Industry Association (EIA) is in the process of finalizing similar recommendations for electronic component and printed circuit board standardization.

Hacking Your Doctor's Handwriting

Motorola and Visteon announced this week they have developed computer software that accomplishes something that poses a major problem for most people: reading a doctor's handwriting for prescriptions.

The system, using neural network-based software, recognizes even some of the messiest handwriting. The software, besides broad understanding of medial terminology, learns an individual's writing styles.

Motorola said the neural network-based handwriting application works particularly well for doctors because the system can rely on medical dictionaries, ensuring a higher degree of accuracy than if the computer had access to the entire English language. "The computer's ability to read and translate the doctor's cursive notes has astonished many people to whom the illegibility of medical handwriting has become legendary," said Motorola spokeswoman Brenda Scariot.



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The system combines Motorola's Lexicus Longhand software with Visteon's Bigvision Prescription Pad. Visteon, based in Maitland, Florida, said the system allows a doctor to scribble a prescription onto the electronic notepad which identifies the drug's name, quantities, dosage and other instructions. It subsequently transmits the prescription to a pharmacy electronically. Visteon said it plans to use another product, the Bigvision Clinical Manager, to put the data into the patient's permanent file.

"This could work just as well for an auto mechanic if the computer had access to a mechanics dictionary," said Scariot.

SVNS

Sony PCs To Be Released In Fall '96

Sony will release its EditStations in fall 1996 in the US. These specialized, high-end desktop PCs for enterprise environments were previewed at a New York press conference in March. Target apps include digital editing for video and WWW apps. Sony also plans to launch digital cameras, editing decks and recorder players for these apps.

The EditStations allow nonlinear editing, so users can treat video as if it were text. The hard drive can be used to capture video data, which can be converted from digital to analog and vice versa. The digitization process can be bypassed using DVCAM. The EditStations will be built around the Pentium. One model, the ES-7, will have Windows NT as an OS, while the other, the ES-3, will run WIndows 95. Sony could later change over to the PowerPC platform. The ES-7 will list at $25,000..$58,000, and the ES-3 at $8,000..$2,5000.

Philips Demonstrates MPEG2 With DVD Prototype

Philips Electronics demonstrated MPEG2 5.1 and 7.1 channel surround sound audio in combination with its DVD prototype player for the first time at intermediaWORLD.

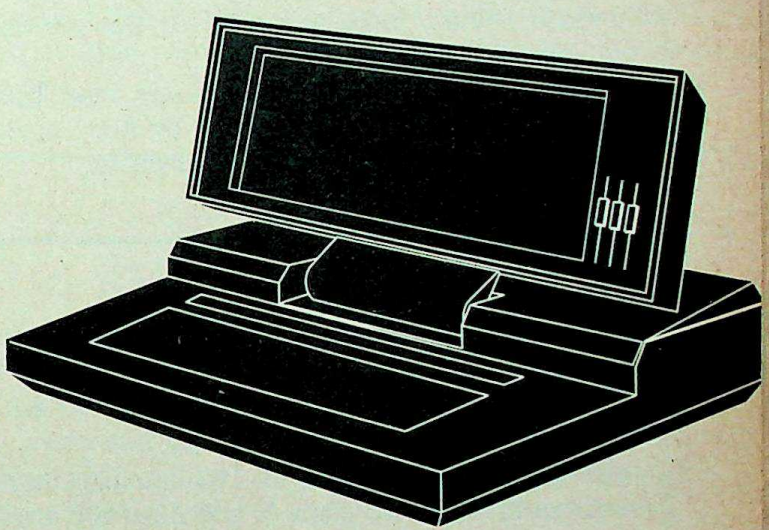
The nine companies which jointly announced the basic agreement on DVD specifications in December 1995 have agreed to use MPEG2 audio with PAL video (50 Hz countries). For NTSC video (60 Hz countries) MPEG2 audio is optional.

An increasing number of broadcast and distribution applications of digital video and audio is based on MPEG technology: DSS (Digital Satellite System), DAB (Digital Audio Broadcast), DVB (Digital Video Broadcast), ADR (Astra Digital Radio) and satellite feeds to cable networks. And MPEG is increasingly used with ISDN to provide high quality audio and video.

An MPEG2 Fixed Bit Rate Audio Encoder (stereo) is available now. The first prototypes of MPEG2 variable bit rate encoders for video and audio are also available today, with commercial availability in the third quarter of this year.

Sharp Notebook Based On 133 MHz Pentium.

Sharp has launched its PC-9070, a 133 MHz Pentium-based notebook with the datacom and multimedia performance of a "desktop on the road".



The PC-9070 uses infrared technology at 4 Mbps, a large SVGA TFT LCD display featuring "Super-High Aperture" technology, a removable quad-speed CD-ROM, a GlidePoint trackpad, Windows 95, and other software.

Information: http://www.sharp-usa.com.

HP Netserver For Windows NT Apps

Hewlett-Packard has extended its family of Pentium based NetServers with a new quad-capable HP NetServer for Windows NT applications.

The new HP NetServer 5/166 LS supports 1...4 Pentium processors in a high-performance architecture with dual PCI peer buses. It also includes fault-tolerant features that ensure data integrity and high system uptime to meet the high-availability demands of business-critical environments. Hot-swap drives and ECC memory are standard in all HP NetServer 5/166 LS models. A dual-channel disk-array controller, included in certain HP NetServer 5/166 LS models, supports fast and wide SCSI drives in RAID-0, RAID-1, RAID-5 and HP NetServer RAID-6 disk arrays.

The estimated US street price with a single Pentium processor is $10,889; with dual processor, $14,399; and with quad processors, $23,038.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Cyrix's 5x86 Processor Popular With Notebook PC Vendors

Cyrix Corp is helping notebook PC vendors to power up their respective lines by providing 5x86 processor-based solutions designed to boost small office and corporate portable applications.

Specifically, IBM Corp's successors to its ThinkPad 365 notebook series—the ThinkPad 365E and 365ED—will feature 100MHz 5x86 processors. IBM also markets a 5x86 processor-based Aptiva in Europe and Latin America.

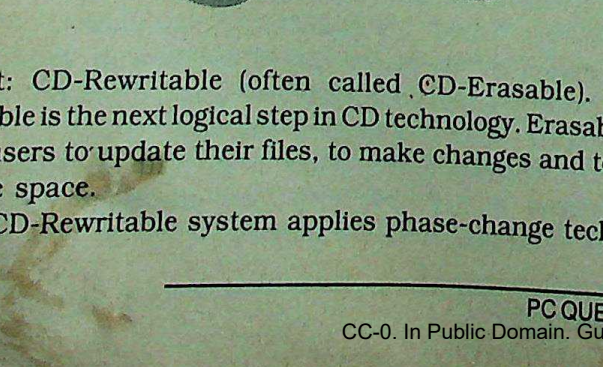
While NEC Corp is already shipping Cyrix 5x86 processor-based desktops and notebooks in Japan, NEC Technologies Inc will feature Cyrix's 5x86 processor in the recently announced Versa 550D Notebook.

Approximately six million Cyrix processors have been installed in PC platforms, including those by Acer, Apple, AST, Canon, Epson, Fujitsu, IBM, NEC and Sharp.

Philips Strategy For CD-ROM, CD-Rewritable Drives In 1996

Philips Key Modules plans to lead the market with its 8x drives in 1996 and plans to introduce 10x drives in the second quarter of 1996. Philips expects that the industry as a whole will sell more than 50 million units in 1996, with OEM prices dropping below $100 this year.

In the third quarter of 1996, Philips will introduce the CDD2600, a 2x write and 6x read drive. In the fourth quarter of 1996 Philips will launch the fourth generation CD-R



product: CD-Rewritable (often called CD-Erasable). CD-Rewritable is the next logical step in CD technology. Erasability allows users to update their files, to make changes and to re-use disc space.

The CD-Rewritable system applies phase-change technology. Ten major manufacturers, including Philips, Ricoh, Hewlett-Packard, Mitsubishi Chemical Co (MCC), Mitsumi Electric Co, Matsushita Kotobuki Industries (MKE), Sony, 3M and Olympus, have announced their support for the development of an erasable CD standard for data applications.

Fujitsu's 3.5" 640MB Magneto-Optical Drive

Fujitsu Computer Products of America introduced a 3.5" 640 MB magneto-optical drive. This introduction represents a near tripling of capacity over current 230MB drives and delivers on the industry standard roadmap for capacity advances.

The new drive, the M2513A, will be a bare 640MB drive mechanism aimed primarily at OEM customers. A commercially packaged version of this drive with an external enclosure will be announced later this year as an extension to Fujitsu's popular DynaMO family of MO drives. The M2513A uses ISO standard 640MB and 540MB MO media. In addition, the drive is capable of reading and writing 230MB and reading 128MB 3.5" media, ensuring two generations of backward read compatibility as agreed to by the members of the Optical Standards Technology Association (OSTA). The drive also includes direct overwrite technology, which improves write performance by 60 % over previous-generation products.

The M2513a has a SCSI-2 (Small Computer System) interface allowing it to connect to different computer platforms including PC-compatible, Apple Macintosh, and UNIX workstations. A high-performance seek time on average of only 30 milliseconds will enable customers to quickly record and retrieve data.

MO is primarily designed for professional applications such as multimedia files, spreadsheets, graphics and presentations, where data is extremely valuable. Those looking to protect their data investment choose MO for several reasons. MO is the most reliable form of removable storage. It is a non-contact media, eliminating the possibility of head crash and data loss, and cannot be erased by accidental contact with a magnetic field.

In addition, MO provides nearly unlimited rewrite cycles and is a standardized technology with defined migration roadmaps. MO media's cost advantage over other forms of removable storage allow MO's value to rise as more data is stored. The new drives will be available to OEM customers in the second quarter of 1996. The external model of the drive has an anticipated list price of approximately $699.

TouchStone's CheckIt Released

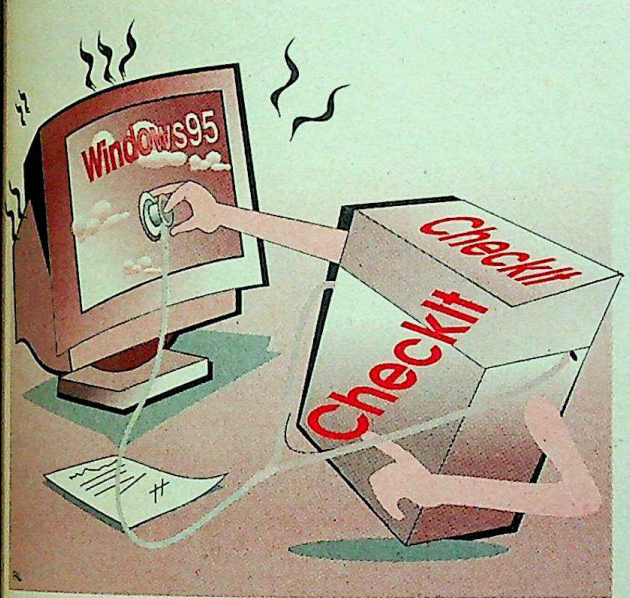
TouchStone Software Corp's CheckIt Diagnostic 3.0 features a long list of high-powered troubleshooting utilities for Windows 95, Windows 3.1 and DOS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

environments, providing users with a comprehensive detection of PC diagnostics.

CheckIt Diagnostic Kit has been designed for use by technicians and technical users and combines the troubleshooting capabilities of multiple diagnostic utility programs designed to address a full range of hardware and software problems. It includes: the new CheckIt 4 program, a portable, self-booting DOS utility that provides extensive hardware-testing and configuration analysis features; TurboCheckIt Pro, an advanced version of WinCheckIt, customized for in-depth Windows troubleshooting; Qualitas 386Mexam, a comprehensive PC memory test; a four-volume McGraw-Hill Technical Reference Library on CD-ROM;



and TouchStone's CheckIt Tools, which includes a set of three loopback plugs and a pair of CheckIt computer screwdrivers.

CheckIt Diagnostic Kit will be available at all major retail stores in early April 1996. The expected shelf price is $129.95. A $30 Upgrade Rebate Coupon will be included with the product for all current WINCheckIt and CheckIt users. Upgrades will be priced at $49.95.

Cardinal Technologies' MVP288XV Fax Modem Win95 Compatible

Cardinal Technologies' MVP288XV Fax Modem with Voicemail has received Microsoft's official designation as compatible with the Windows 95 operating system.

The MVP288XV is now shipping with the "Designed for Windows 95" logo on its packaging. In order to qualify for the official designation, Cardinal Technologies submitted its modem shortly after first shipping it for an extensive series of tests administered at Microsoft's Windows Hardware Quality Lab (WHQL) in Redmond, Wash.

Cardinal was one of two modem manufacturers to demonstrate compatibility with the Windows 95 Plug and Play initiative when Windows 95 was launched last year. Securing the "Designed for Windows 95" logo requires support for the Plug and Play initiative, which effectively eliminates the need for users to set up dip switches and jumpers. Plug and Play automatically recognizes installation requirements for add-on hardware and properly configures a Cardinal modem to work seamlessly within the user's system.

The company is the only modem manufacturer shipping internal and external voice modem products that support the VoiceView-based file transfer capabilities under Windows95.

In addition, Cardinal's modems work with other Windows 95 communications capabilities including built-in fax communications, Internet communications and data communications. Cardinal's complete product line is available at most major computer retailers and major mail order catalogs.

IBM Axes PowerPC-Based 830, 850 Desktops

IBM's RS/6000 43P workstations will run Microsoft's Windows NT, Sunsoft's Solaris and IBM's AIX, thus making the PowerPC-based 830 and 850 desktops, which were multiple OS-based, redundant. IBM has therefore decided to discontinue its PowerSeries 830 and 850 destop models, while continuing production of its PowerSeries 820 and 850 ThinkPad models.

CD-ROM To Help In Diagnosing Knee Injuries

Interactive Multimedia Publishers Inc's CD-ROM, **The Knee**, which instructs sports trainers, masso-therapists, physical therapists, team physicians and coaches on how to diagnose knee injuries, is under development and will be distributed through direct mail, computer and sporting goods retail chains and medical professional associations.

The Knee was originally developed in 1986 in a laser disc format. It has been marketed to medical schools and libraries. It was recognized by the John Muir Film Festival where it won a silver medal and is on permanent display at the Smithsonian Institute's Museum of Natural History in Washington, D.C. IMP will be converting The Knee to CD-ROM technology for introduction to the Internet.

IMP also signed an agreement with American Holistic Centers of Chicago to produce titles on acupressure, osteo-pathy, homeopathy, transpersonal psychology, meditation and stress reduction, midwifery, yoga, chiropractic, nutrition, bach flower remedies and skin care. These titles will be marketed to medical professionals, medical institutions, managed care groups, libraries and the general public. David

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Edelberg, MD, AHC founder and medical director, will be the primary consultant on the project.

Cyrix To Produce PCs With EDS

Cyrix signed a five-year agreement with Electronic Data Systems to assemble computers under its own label. Its PCs will be based on the Cyrix 6x86 chip, will cost a little over $2,000 and will be distributed directly. Cyrix's move to build its own PCs is based on the popularity of its 6x86 chip, which, analysts feel, is based on an advanced design. Cyrix is not taking a very big risk, because it will only supply the chips, motherboard and basic circuitry, while EDS supplies everything else. Cyrix will advertise its computers, but its campaigns probably won't be much compared to Intel's. It lost $9.9 million in the last quarter of 1995 and needs to show the market that it's still capable of putting up a fight against Intel.

Novell Spins Off AppWare

Novell has spun off its AppWare division as a separate company called Network Multimedia. Network Multimedia will have all rights to the AppWare technology which is said to allow developers to "program like you think" for desktop and network apps construction. It plans to bring the benefits of AppWare's network and multimedia versatility to content providers developing for the Internet.

Network Multimedia brings development and marketing expertise to AppWare. Ed Firmage, former director of AppWare marketing at Novell, is now president of Network Multimedia, and has brought several former AppWare team members to the new organization. The group has a proven track record as the original founders and architects of the high-level tool—at Serius Corp, founded in 1989, and delivered four versions of the product prior to their acquisition by Novell in 1993.

AppWare products are distributed through mail and can be purchased directly from Network Multimedia for $199 by calling 801/261-8232.

Magic For Windows NT On Intel- And Alpha-Based Servers

Magic Software Enterprises launched Magic for Windows NT on Intel- and Alpha-based systems. Magic will also release a new gateway for Microsoft SQL server.

Magic for NT is part of the Magic Version 6 server-side product line, and enables rapid, server-side development, deployment and background-mode processing capabilities. In addition to MS-SQL, Magic for NT will support gateways to Oracle, Informix and Btrieve. The Magic Alpha NT product completes the suite of offerings by Magic for the Digital Alpha platforms.

Magic for NT is available immediately and pricing begins at $6,460 for a double-user development system.

Graphix Zone Ships CNN CD-ROMS

Graphix Zone and CNN Interactive have created CD-ROM titles on **Faces Of Conflict** and **CNN Time Capsule: The Defining Moments Of 1995**. These are the first CD-ROMs created by CNN Interactive's in-house development team in partnership with Graphix Zone.

Faces Of Conflict is an educational title that takes users into 20 disputed regions around the world to learn about leaders and the people involved in conflicts. CNN correspondents provide the information while experts provide the analysis. It features video clips, slide shows, interactive maps, insights from CNN correspondents and printable maps and photographs. It also has a bibliography which can be used to get more information on disputed areas.

CNN Time Capsule: The Defining Moments Of 1995 features the top news stories of 1995, video highlights, pictures, audio clips, statistics and cartoons. Other features include a keyword-based search feature, an *On This Day* feature that enables users to read about news events on any day in 1995 and a *CNN News Quiz* for one or two players.

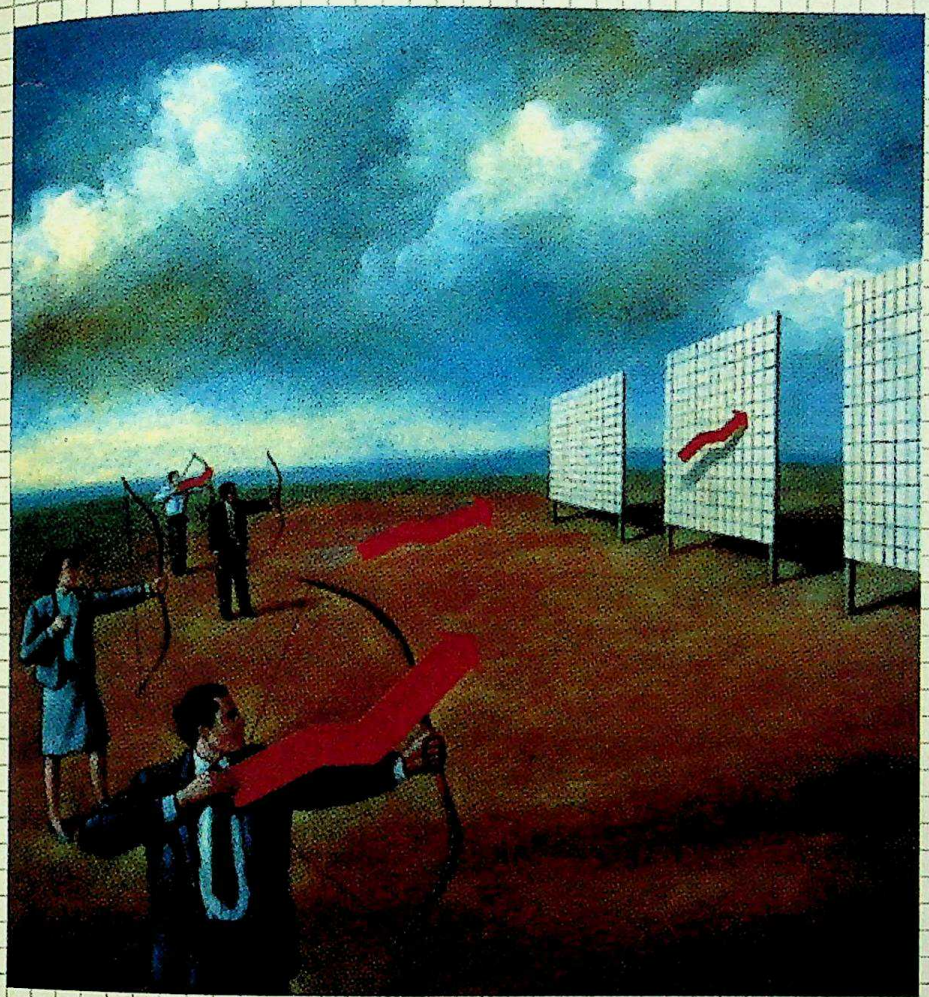
Both disks include Earthlink's TotalAccess Internet software with Netscape Navigator for users to link directly to CNN's Web site. Accessible through http://CNN.com, additional regions in dispute, as well as updated information on the 20 conflicts on the Faces Of Conflict disk. Both CD-ROM titles have a suggested retail price of $39.95 and can run on both the Windows and Macintosh platforms.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Opportunities

To launch your products
To build/expand your dealer network.
To establish tie ups
To meet big buyers.
To initiate and conclude deals.
To tap new market potential
You cannot afford to miss.



THE PC EXPO SERIES

- **HYDERABAD** 4th - 6th July '96
- **MADRAS** 11th - 13th July '96
- **CALCUTTA** 19th - 21st July '96
- **DELHI** 9th - 11th Aug '96
- **MUMBAI** 15th - 18th Jan '97
- **BANGALORE** 23rd - 25th Jan '97

For more information & stall bookings contact :

UNIVERSAL EXPOSITIONS

H-8, NOOTAN NAGAR, GURU NANAK ROAD,
BANDRA (W), MUMBAI - 400 050.
PH.: 6410449, 6421405, 6451479 FAX : 6410465
e-mail : tarun.uniexpo@axcess.net.in

DATAQUEST

CALCUTTA PH : 247 1285
DELHI PH:6416315/6478664 FAX : 640 1692
HYDERABAD PH : 848121 FAX : 510960
MADRAS PH : 459498 FAX : 825828
MUMBAI PH:6450050/6450051 FAX : 640 3986

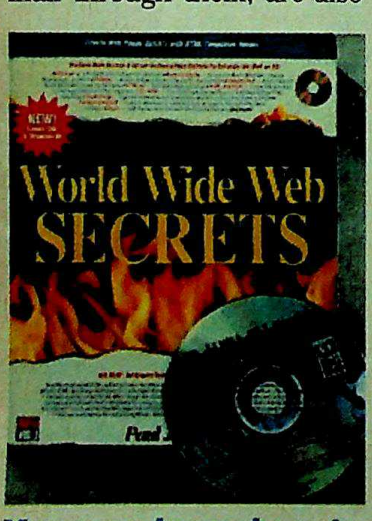
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

World Wide Web Secrets

World Wide Web Secrets has some tidy and unambiguous priming on the Internet and Web fundamentals. You can learn how to install and configure the software you need for connecting to the Internet and how to access Internet services and areas.

The book introduces you to Web browsers, with Netscape Navigator getting two chapters to itself, one of which tells you exactly how to use the program, and the other explaining how to use Gopher, Veronica, WAIS, access newsgroups and use e-mail with Netscape. Commercial online services like America Online, Compuserve, and Prodigy, their Web access software and using e-mail through them, are also described. There's some customary Netiquette and tips on how to search the Web, with descriptions of some search engines and how they work, unfortunately already a little dated.



You can learn how to install and configure the software you need for connecting to the Internet and how to access Internet services and areas

Not quite severely secret information so far, but nonetheless useful for the beginner. The book goes on to a surfing tour of web pages on Business—mostly American—Computer Support including Microsoft, IBM, Creative, Silicon Graphics and others, Music and Entertainment, Information Resource pages and US Government sites. There are captured shots of the Web sites. The tour is accompanied by a few design tips.

The basics of setting up hardware for a Web server and Windows Web server software are introduced before going on to learning elementary HTML. Five HTML editors and some converter utilities are reviewed. Web page design guidelines, how to make HTML forms and building in multimedia elements are covered, a little lightheartedly. There is also a chapter of straightforward home page templates that you can key in and use for your own company. These give a fair idea of the kind of information a company might like to feature at a Web site.

And finally, commerce and secure transactions on the Web gets a special focus, with the future for HTML, Hot Java, and a digital world in general rounding off. The book has a usable reference section.

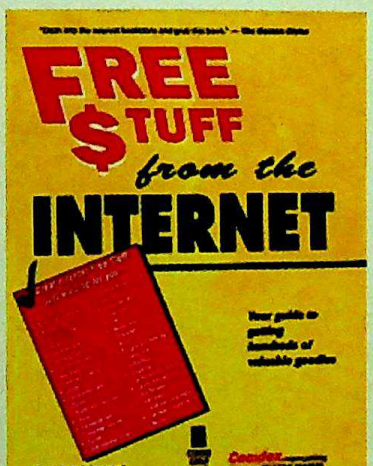
Also included is a CD-ROM containing Web access and server software, HTML editors, templates, and sound and video editors and utilities.

World Wide Web Secrets
by Paul J. Perry
IDG Books Worldwide
705 pages, Price: $39.99
Reader Query Service #E0434

Free Stuff Online

This book should be hot. It takes you on a tour of the Net, guiding you to some of the plethora of "free stuff" on it.

It starts off on the free Internet service providers, and touches upon how to avail of their free services. You then get around to the various freebies that abound. Lovers of art and culture have an entire chapter of information.



The 450 pages cover Books, Literature, Computers, Educational Tools, Games, Health and Nutrition, Household, Humor, Kid stuff, Law, Movies, Music, Religion, Science, and Travel.

Like most printed information resources on the Internet, this too has the problem of creeping obsolescence. Some sites don't exist anymore; Gopher appears to have had a field day. Nor are very many Web sites mentioned.

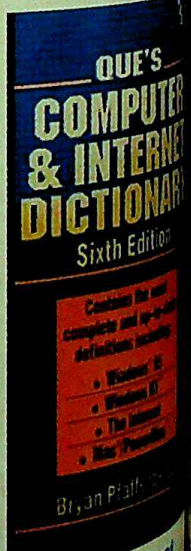
Overall, a fairly [illegible] addition to a start[illegible] termediate Internet user[illegible] brary, and a good ref[illegible] at times, for the expert.

Free Stuff From The [illegible]
by Patrick [illegible]
Coriolis/Ventana
460 pages
Reader Query Service #[illegible]

Reference Power

Que Corp is a [illegible] of Prentice-Hall publisher with [illegible] outstanding but often late infotech books. This tionary is, however, the mix: it's superb, comp sive, and up-to-date.

For its compact size covers an amazing array things. You find uncom entries there, from rec cent developments to cl products to the Cyrix M other products. There some misses—Internet ered, but not Borland



For its compact size, it covers an amazing array of things.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Snapshots

Cyrix M1 An unreleased microprocessor designed to compete with—and claimed to outperform—the Pentium. With its superscalar architecture, the M1 is generally similar in design to the Pentium, and the two chips are supposed to be binary-compatible. But the M1 is rumored to offer several advantages over the Pentium, including superpipelining, register renaming, and fewer issue restrictions. Cyrix claims that the M1 will be 50 percent faster than existing Pentiums.

HoTMetal A standalone HTML editor created by SoftQuad Systems for Windows 95. Widely distributed as shareware, HoTMetal is also available in a professional version called HoTMetal Pro. The current version painlessly checks HTML tags for conformity to the original HTML 1.0 spec, making it difficult to produce pages incorporating more recent additions to HyperText Markup language (HTML), such as the NetScape extensions. HoTMetal competes with WebAuthor, Microsoft Internet Assistant, and HTML Assistant.

HTML+ An unofficial HyperText Markup Language (HTML) spec that has strongly influenced HTML 2.0 and the forthcoming HTML 3.0 standards. HTML+ describes advanced features of the language, including forms and tables.

Lotus Word Pro Formerly called Ami Pro, Lotus Word Pro is a full-featured word processing program that competes with Microsoft Word and WordPerfect. Word Pro beats its competitors, but offers several attractive features.

Designed to work with Lotus Notes, Word Pro allows the members of a workgroup to attach electronic "sticky notes" to documents. The program also features a novel spelling checker that lets you see all the misspelled words in a document at once. Some critics, though, have said that Word Pro's automatic formatting features are

Microsoft Corporation The largest software publisher in the world, Microsoft makes such ubiquitous programs as Windows 95, Word and Excel. Based in Redmond, Washington, Microsoft got its big break in 1982 when IBM agreed to buy operating systems for its new personal computers exclusively from Microsoft. MS-DOS remains one of the company's top products today.

Microsoft commands such market share that its products, even when inferior to competing products, often become standards. Many experts thought OS/2 was superior to Windows 3.1, but OS/2 sold poorly in comparison to Windows. Microsoft competes with IBM, Lotus and Novel.

shell account An inexpensive but limited type of Internet dial-up access. A shell account does not directly connect your computer to the Internet. Instead, you use a communications program to access a computer, usually a UNIX computer, on which you have established an account. After logging on to this computer, you get text-only access to this UNIX computer's operating system shell. From the shell, you can run the Internet tools that are available on the service-provider's computer, such as the text-only Web browser called Lynx, or text-only UseNet newsreaders.

A major disadvantage of these tools becomes obvious when you try to download some of the information that these tools help you discover. The downloaded data goes to a separate storage area on the service-provider's computer. You must quit the Internet application and, in a separate and tedious operation, download the data to your own system. You can overcome these two limitations—the text-only limitation and the two-step downloading process—by using Serial Line Internet Protocol (SLIP) or Point-to-Point Protocol (PPP), or by using applications like SlipKnot that disguise the shell. Shell accounts, though, are usually much less expensive than SLIP and PPP accounts.

shortcut In Windows 95, an icon that provides fast access to a program. After you create the shortcut, you see the program's icon on the desktop, where you can start it quickly by double-clicking the icon.

SlipKnot A shareware Web browser, designed for Windows, that does not require a SLIP or PPP connection. MicroMind specifically designed the program for Internet users who have shell accounts on UNIX systems. Running only slightly slower than a Web browser using a slip connection, SlipKnot enables the user to view inline images and to download files directly, without an intermediary storage step. SlipKnot therefore overcomes the two chief limitations of shell account access, which is often available at a low cost.

permanent font A Hewlett-Packard term for a font that, when downloaded to a laser printer, stays in the printer memory until the printer is shut off.

Pine An e-mail program for UNIX systems. Unlike predecessors like Elm, Pine has its own easy-to-use full-screen editor. (PINE is an acronym of the self-referential sort: Pine Is Not Elm.)

Win32s A freeware utility, developed by Microsoft, that upgrades Windows 3.1 and 3.11 so they can run 32-bit applications.

Winsock An open standard that specifies how a dynamic link library (DLL) should be written to provide TCP/IP support for Windows 95 systems. An outgrowth of a "birds of a feather" session at a UNIX conference, the Winsock standard—currently in version 2.0—is actively supported by Microsoft. **Trumpet Winsock** is a widely-used shareware program that provides TCP/IP support for early Windows systems. Written by Peter Tattam (a trumpet player and a programmer at an Australian university, the program includes a dialer and conforms to the Winsock spec.

Que's Computer & Internet Dictionary 6ed

—but overall, its treatment of infotech is near impeccable.

Not all entries are technically flawless, however, especially where judgements on controversial technologies are involved. For instance, line-interactive UPSes are supposed to be those that provide protection against brownouts as well as failures, while standby ones only protect against power failures. That's silly.

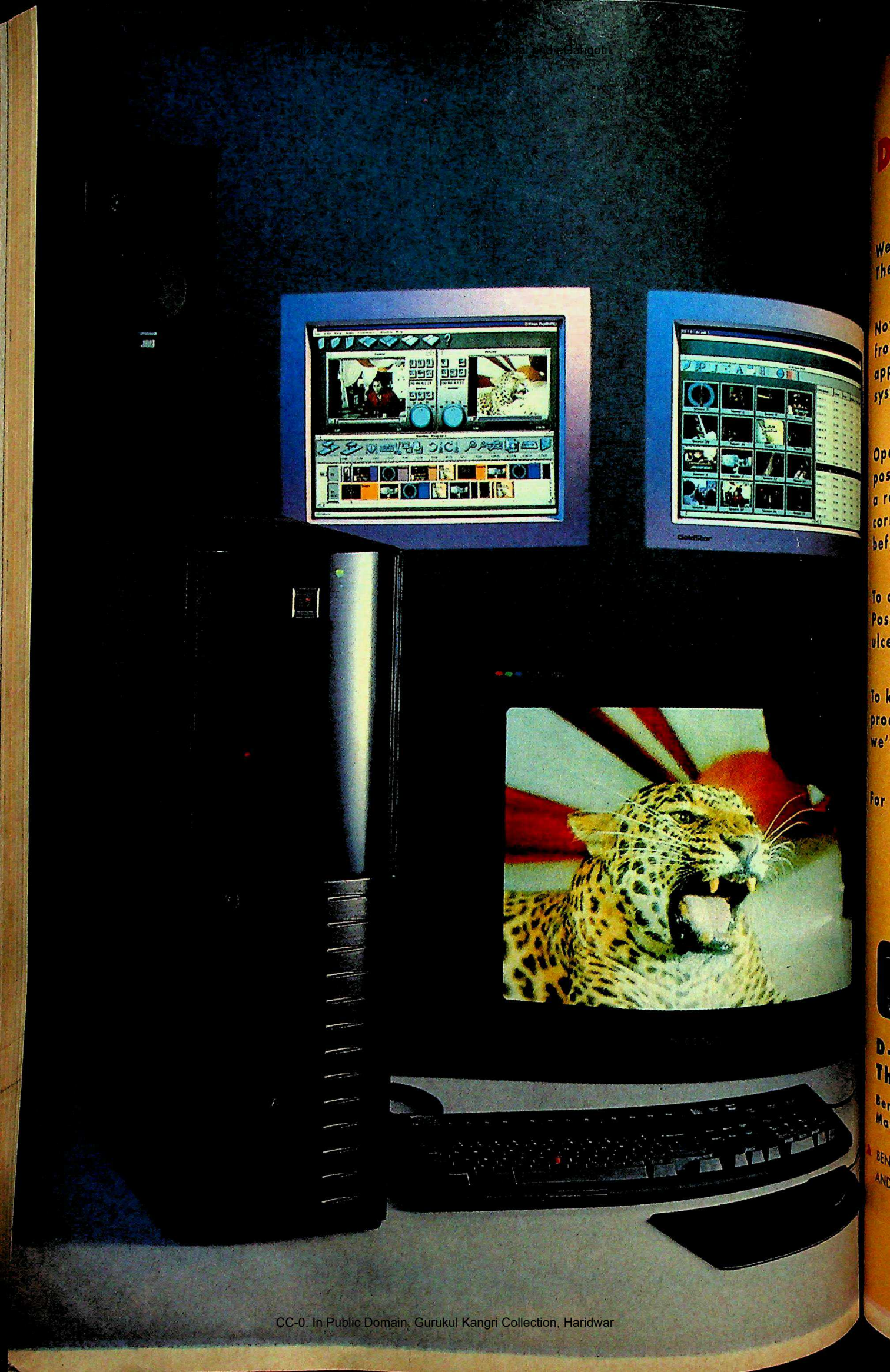
Overall, this is a superb reference that every computer user or professional should have, and every journalist. Very highly recommended.

PKR

Que's Computer & Internet Dictionary 6ed
by Bryan Pfaffebberger
Que/Prentice Hall of India
574 pages. Rs 150

Reader Query Service #E0426

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Don't sue us, please.

We had to call this dream a machine.
The dream D-Vision PostSUITE from Benchmark.

Now don't bother pinching yourself, it's reality. And freedom from your Steenbeck's apron strings. Or for that matter, the apple of the apple's eye. We're talking about a post-production system that's totally Open. Not proprietary.

Open to the extent of not only software, but also to the possibilities of on-shoot usage. Where you can actually cut a rough edit, right there on location. Or make course corrections long before you reach a deadend, seconds before your deadline.

To cut a long story short, Benchmark's D-Vision PostSUITE saves you time, money and re-shoots. Besides ulcers,embarrassment, and angry financiers.

To know how to avoid turning film and television productions into mahabharatas (God, if Ravi Chopra sues us we've had it !) fax Ashish Mukherjee on 91-44-491 0123.

For his lawyers, fax... oops, no please, no.

VISION

BENCHMARK

D-Vision PostSUITE from Benchmark.
The open-minded post production... *machine*.

Benchmark Microsystems (P) Ltd, Ceebros Arcade SVP Road,Adyar,
Madras 600 020. Phone: 91-44-413866

BENCHMARK MICROSYSTEMS IS A D-VISION APPOINTED DISTRIBUTOR IN INDIA,SRI LANKA, BANGLADESH, AND NEPAL. FOR HELP OR SUPPORT WITH ANY D-VISION PRODUCT, FEEL FREE TO GET IN TOUCH.

Clarion 5Q1E03

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DQ TV

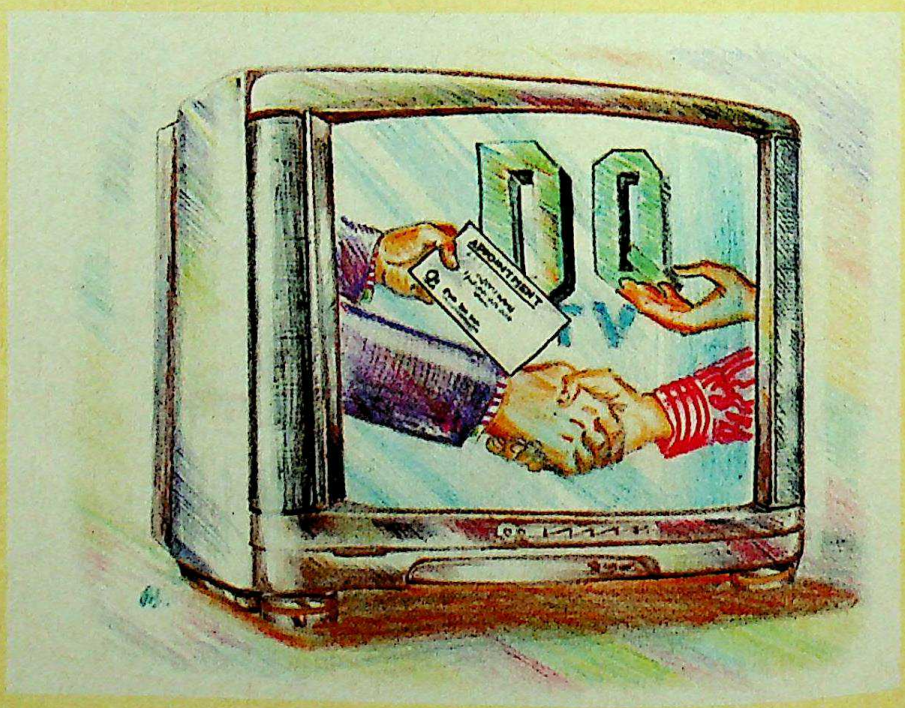
Presents

NIIT
COMPUTER CAREERS

**Do you want to plan a career in the computer industry?
Are you keen on knowing job opportunities in
Information Technology?**

Then don't miss

NIIT COMPUTER CAREERS

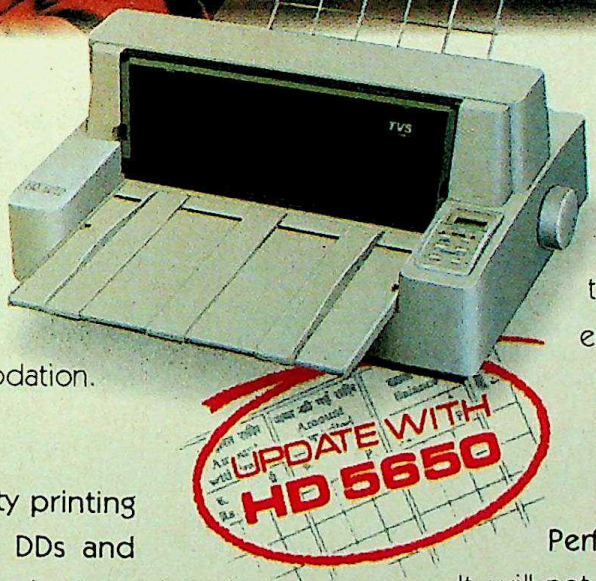


**On Doordarshan Metro Channel
Every Wednesday at 8.30 AM**

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

"My Pass Book. Could you update, please ?"



Eleven in the morning. Business, as usual. Noisy. You're working through your nerves. And there come requests for Pass Book updation.

Who cares? TVS - E.

TVS-E HD 5650. For quality printing on passbooks, cheques, DDs and statements. Designed for horizontal and vertical passbooks, HD 5650 even accommodates printing in Indian languages. And the state-of-the-art Intelli-gap technology ensures uniform print quality on papers of varying thicknesses.

Call us for a Direct Performance Appraisal today. It will not be long, before you and the whole banking industry thank us.

TVS ELECTRONICS

The versatile printer for Banking Applications.

TVS ELECTRONICS LIMITED, 10-B, I Phase, Post Box No. 5805, Peenya, BANGALORE - 560 058.
Tel : +91(80) 839 5000, Fax : +91(80) 839 6334 Telex : (0845) 5009 TVSE IN

REGIONAL OFFICES ◆ AHMEDABAD : + 91 (79) 7478619 / 7411227 ◆ BANGALORE : + 91 (80) 2261713 / 2261723
◆ BOMBAY : + 91 (22) 6247350 / 6247364 ◆ CALCUTTA : + 91 (33) 268355 / 262137 ◆ NEW DELHI : + 91 (11) 6212576 / 577 / 578
◆ SECUNDERABAD : + 91 (40) 847244 / 816667 ◆ MADRAS : + 91 (44) 6412650 / 6412422 ◆ PUNE : + 91 (212) 332856 / 369346

AKSHAR Blr/TVS/9646

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

India Internet

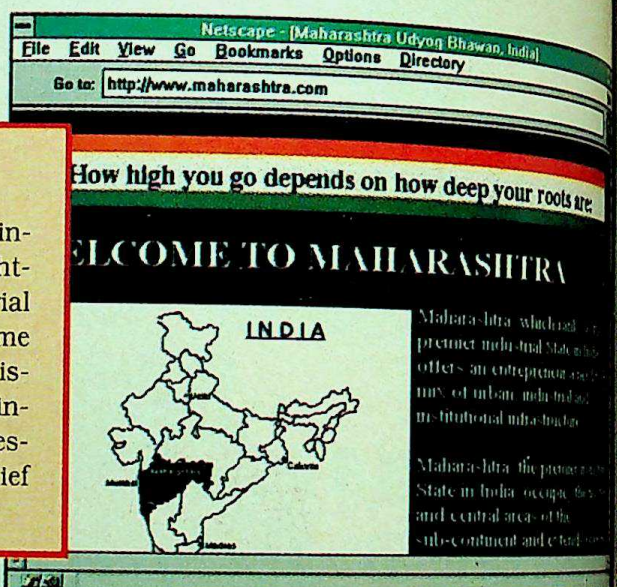
PCQ's monthly update on Indian Websites

It won't be long before every Indian state has its own Web site, if not several. Web pages focussing on states can be, and are, put up by just anyone at all, which means that they range from the dry informational to the spiced-up. For Indians living abroad, such Web sites are a real touch of home.

Travel-related pages are on the rise, and more slowly, so are business related sites. And some sites, of course, stick to plain fun, with movies, film stars and gossip.

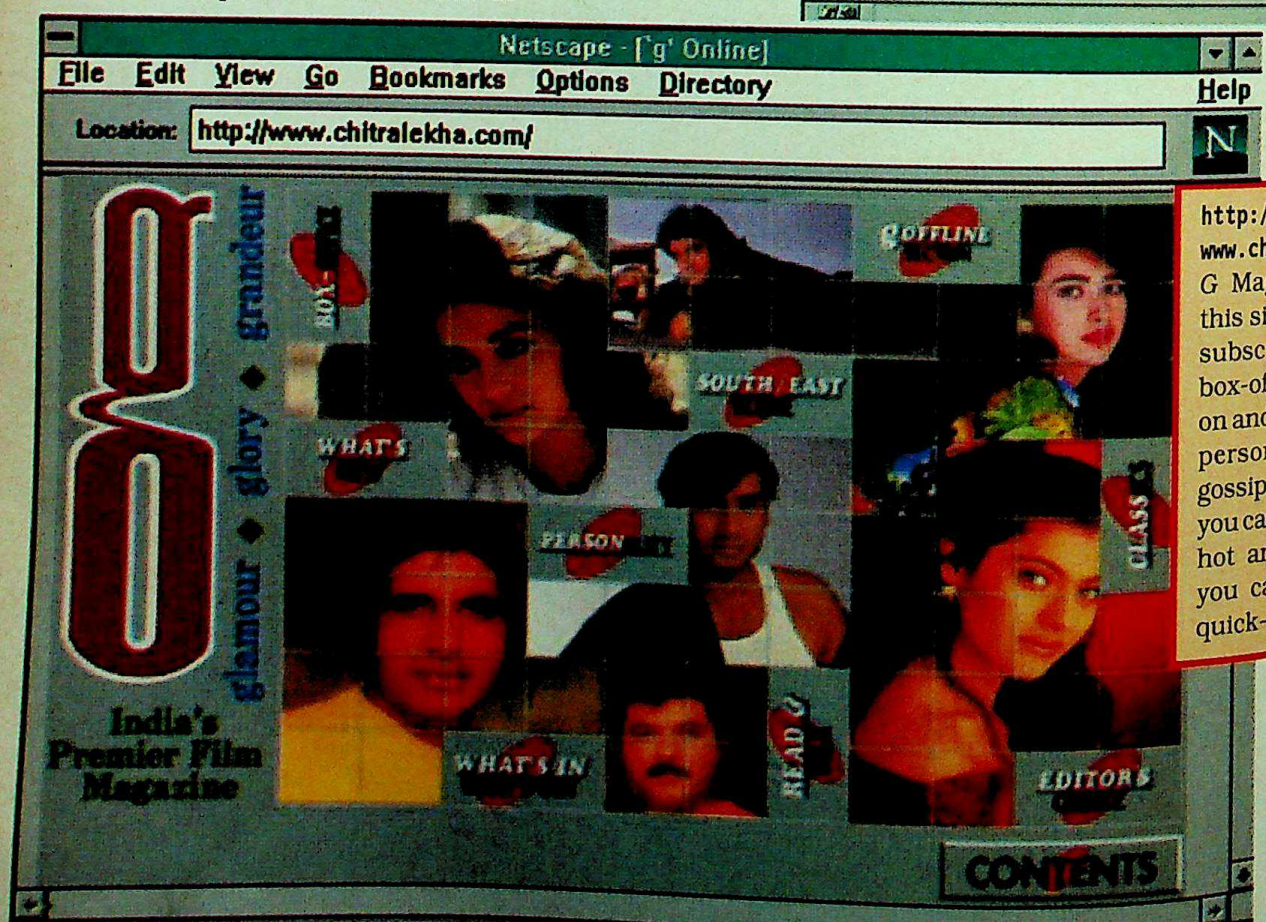
http://www.teleport.com/~tlg/Calcutta.html

You can explore Calcutta online at



http://www.-maharashtra.com

This Web site introduces Maharashtra as an industrial state. There are some Maharashtra statistics, some general information and a message from the Chief Minister.



http://www.chitralekha.com

G Magazine is online. At this site, access is without subscription. You can read box-office reviews, articles on and interviews with film personalities, news and gossip from Bollywood, and you can also find out what's hot and what's not. Plus you can see lots of fast, quick-loading pictures.

(Continued on page 170)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

MANAGING EDITOR — SHYAM MALHOTRA
EDITOR — PRASANTO KUMAR ROY
ASSISTANT EDITOR — GOVIND MENON
CONTRIBUTING EDITORS — ATUL CHITNIS, GAUTAMA AHUJA, VIJAINDER K THAKUR

HEAD, PCQ LABS — KRISHNA KUMAR
SUB-EDITOR — ASAWARI KETKAR
REVIEWS ASSISTANT — MOHAN SINGH BIST

BUSINESS MANAGER — VENAYAK BHATNAGAR
CIRCULATION & COORDINATION MGR — ASHOK GUPTA
CIRCULATION COORDINATOR — RAJINDER
ACCOUNTS MANAGER — MADAN M SINGH
SR COMMERCIAL EXECUTIVE — ANIL KUMAR BHATIA

DESIGN & PROD MGR — ARUN SHANKAR
SR DESIGNER — REMA MARAR
SR DESIGNER — PAL SINGH
ASST MANAGER DTP — T SRIRENGAN
SR DTP OPERATOR — DIGAMBER PRASAD
DTP OPERATOR — JOSE PM
DTP OPERATOR — ALOK KUMAR SHARMA
SR PRESS EXECUTIVE — VIJAY NAGRATH

BANGALORE
GENERAL MANAGER (SOUTH) — E ABRAHAM MATHEW
REVIEWS COORDINATOR — BALAJI N
ASST MGR ADVERTISEMENTS — SRINIVAS AGNIHOTRI

MUMBAI
REGIONAL MGR (WEST) — HOSHIEDIAR GHASWALLA
ASST MGR ADVERTISEMENTS — SUDHIR VALVARA
SR MARKETING EXECUTIVE — RUPA L NATHANI

CALCUTTA
BUREAU MANAGER — PARTHA P BANERJEE
SR BUREAU COORDINATOR — SUJATHA KRISHNAMURTHI

DELHI
ASST REGIONAL MANAGER (NORTH) — T N PRABHU
REVIEWS COORDINATOR — MEGHNA BHATIA
SR MARKETING EXECUTIVE — YOGESH WADHWA

HYDERABAD
SR MARKETING EXECUTIVE — KRISHNA RAO
MARKETING EXECUTIVE — S SUBHA

MADRAS
ASST BUREAU MANAGER — ANIL KUMAR R

HEAD OFFICE
A-71, PANCHSHEEL ENCLAVE, NEW DELHI 110017. ✆ 6433999, 6413938 FAX: 11-6475765.

REVIEWS OFFICE
A-71, PANCHSHEEL ENCALVE, NEW DELHI 110017. ✆ 6433999, 6413938. FAX: 11-6475765.

REGIONAL OFFICES
GROUND FLOOR, MBC, 134 INFANTRY ROAD, BANGALORE 560001. 5581511, 2868238, 2869872, 2866927. FAX: 80-2862971.
JAIN CHAMBERS, 577 S V ROAD, BANDRA, MUMBAI 400050. 6450050, 6450051 FAX: 22-6403986.
SUBHAS BUSINESS CENTER, GND FLOOR, 233/3 AJC BOSE ROAD, CALCUTTA 700020. ✆ 2471285.
MEGHDOOT, 94 NEHRU PLACE, NEW DELHI 110019. 6411692. FAX: 11-6476664.
ROOM NO.12, 5TH FLOOR SRINATH COMMERCIAL COMPLEX, SECUNDERABAD 500003. ✆ 848121. TLX: 0425-6105 PCQ IN. FAX: 41-816960.
2ND FLOOR GUNA BUILDINGS, 304/305, MOUNT ROAD, OPP. SAFIRE, MADRAS 600018. ✆ 459498. FAX: 44-8252828.

Published by Pradeep Gupta on behalf of Cyber Media (India) Ltd, 610 Meghdoot, 94 Nehru Place, New Delhi 110019. TLX: 031-71344 INDQ, and printed by him at Sahara Graphics Communications, C-2, Sector 11, NOIDA 201301.

Annual subscription: India: Rs 240 (1 Year) Rs 450 (2 Years) 630 (3 Years). Add Rs 15 for outstation cheques). Foreign: US$ 50 (airmail).
Payments favoring: CYBER MEDIA (INDIA) LTD.
Distributors in India: Mirchandani & Co, Bombay.
All rights reserved. No part of this publication may be reproduced by any means without prior written permission.
PCQ is not responsible for unsolicited manuscripts.
Phone: 011-6221734 [Modem: 14,400 bps, N81]
Internet: pcq@pobox.com
Compuserve: PCQ

LEADING EDGE

PRASANTO K ROY

CablePC: Bandwidth To The Home

A sign of the accelerating interest in the Internet was the considerable attendance at the recent Internet India '96 at Bangalore's Indian Institute of Science.

Organized by Microland and other vendors, the event covered issues of technology, applications and infrastructure. With senior VSNL and other government officials, foreign ISPs, active Internet figures, and probing and critical audiences.

An issue that came up repeatedly was availability, and bandwidth. Even with less than 10,000 real Internet users (about 25,000 if you count ERNET) these are already areas of concern.

The major hurdle for Indian users is the dial-up line. Across VSNL's network, at this moment Delhi is the only city with good dial-up availability. Office users in Bombay, Bangalore, *et al* spend frustrating hours trying to get a free line in. But getting in is no guarantee of a modem connect, nor is a modem connect any guarantee of staying online longer than 3 minutes.

This is only partly thanks to inadequate settings on VSNL's modems. It's largely thanks to a spread-out phone network that's an amazing hybrid of legacy and digital switches, poorly managed exchanges, and hundreds of thousands of miles of decrepit cabling. From my 641 home number on Delhi's elite Nehru Place exchange, I rarely get even a 2,400 bps connect to the Internet; from other numbers in the same exchange, I can get 28.8 kbps inter-city.

The DoT is crawling toward ISDN—the digital phone-and-data network that can give you 128 kbps connects—but by the time it really gets there, ISDN could be obsolete. Already, users in the West are moving away from the technology, even before it's been seriously adopted and allowed to mature. For a four-fold jump over dial-up modems is not the quantum leap it appears when you first hear of it, once you get to taste that bandwidth demands of Web graphics and video.

So what are they moving to? The most logical medium: television cable, of which millions of kilometers are installed, worldwide. Riding an Internet service on it is the most economical way to sell to the home bandwidths crossing local-area network speeds.

A recent California service has started a pay-per-use cable TV network for PC users. CablePC subscribers will access multimedia apps, CD-ROMs on jukeboxes, HTML documents, real-time news, and a high-speed connection to the Internet, on a pay-per-use basis.

And Motorola is shipping a $500 CyberSurfr cable data modem, part of its CableComm range for which it has more than 1 million pending orders from cable operators.

With such products, cable-wired PC users could get a staggering 30 Mbps inward connections, and up to 768 kbps outward (from home to network).

Just *one* of them, using NetScape on his Pentium, could bring VSNL's current backbone network down to a crawl. If just 5,000 of them were to use only one-third of their available bandwidth, VSNL would need to upgrade to a 50 gigabit-per-second link to the Internet!

This is near reality on the greater Internet, across the world. As front-end user bandwidth shoots up, the backbones will choke—and then FDDI and ATM, now reserved for the backbones, will be used routinely "up front". And then, at the backbone, still newer technologies—such as a gigabit-per-second single fiber link tested recently—would have to be quickly pressed into service.

Meanwhile, all that copper laid out for cable TV holds great promise for the home PC user.

PKR

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

This quality time was brought to you by Fiskars UPS solution.

LanSafe III allows personalized alerts and custom messages through e-mail, by fax or as GSM text messages.

11.30 pm. The GSM phone rings on Systems Administrator John Andews's livingroom table. A text message appears: "Prod-NT-1-UPS 30 min".

There is a power outage at work. The LanSafe III software in the UPS system has auto- matically started the controlled network shutdown sequence. Now it is letting John know what is happening.

There is still one hour backup time left. Muttering something that sounds like an apology, John gets up and connects to the company network through his laptop.

LanSafe III: personalized alerts through e-mail, fax or GSM phone.

11.37 pm. John checks his e-mail. LanSafe III has already performed orderly shutdown on five Windows NT workstations and two Windows 95 workstations. It has also powered down two bridges and one router, with all unsaved data now saved in the financial, production, sales and marketing databases. Before the databases have been closed, LanSafe III has automatically launched a backup program. This program is now reporting to John step by step.

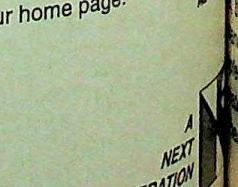
First in the world: controlled network shutdown software included as standard.

11.55 pm. Only the most important thing, the Windows NT server in charge of production management, is still running. The production of circuit boards goes on in the pitch dark factory hall as if no blackout had occurred. John once again goes over the e-mail messages LanSafe III has sent to him to make sure the network was shut down in an orderly fashion and in the specified order.

LanSafe III saves and backs up.

00.18 am. LanSafe III starts a backup routine on the production management computer. The final status is saved on a DAT tape. The software sends fax messages to the Managing Director and the Logistics Manager informing them that production has been stopped due to a prolonged power outage. After dedicating three seconds to thinking whether or not to drive to the factory, John decides that he has better things to do. After all, everything at the plant went just as planned. For more information, log on to our home page: **www.fiskarsUPS.com.**

With Fiskars, you can control the entire network and recognize network devices on the network. When necessary, LanSafe shuts down the entire network, including bridges and workstations. This feature is available only with Fiskars.



NEXT GENERATION BUSINESS POWER SYSTEMS LTD.

176 Gautam Nagar, New Delhi Tel : 6965645/6859256/6859257

Bombay : 3083041 • Bangalore : 6620922 • Gandhinagar : 21798 • Hyderabad : 390436

Calcutta : 2476132 • Madras : 8524245 • Pune : 324784

A NEXT GENERATION COMPANY

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

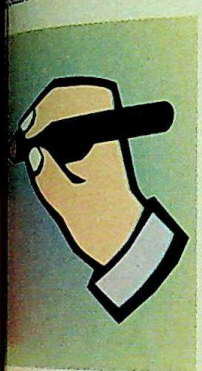
Digitized by Arya Samaj Foundation Chennai and eGangotri

...NLINE

...S HANDWRITING ID

...m an old subscriber of ...Quest and need informa... on handwriting compa... software. I'm in some ...uble, and I need this ...ation as soon as poss...

...recently read an article ...Microsoft in *Sandesh*, a ... daily, which spoke of ... software to compare ...writing from two diffe... documents. The software ...gnizes if the author is ...same or not.



...want to know if this ...are is available in India. ...you send me the name of ...pplication and details ...t the vendor. If any ...n Government organiza..., such as the Forensic ..., has developed such an ...ation, please send me ...details.

A Reader
...dabad Central Jail, GJ

...st of the relevant software ...today focuses on hand... recognition (a step bey... optical character recogni... rather than identification. ...of the government agen... we are aware of is using any ...t for the identification of ...thor of handwriting sam... in forensic investigation in ...the identification process ...ual, though handwriting ... databases may be used ...ching.

...e is, however, a lot of *information available on the Internet on handwriting identification research. As you may not have Internet access, we have sent you this information by courier. —Ed*

ASSEMBLERS LTD

✉ I would like *PC Quest* opinion on the purchase of branded versus assembled computers.

Manjunatha BN
Bangalore, TN

While most branded products are clearly superior to assembled products, the reality is that the latter will continue to sell in India in significant numbers as long as they're cheaper.

When a reader on a tight budget asks for advice on the purchase of an assembled product, we suggest that they do it with extreme caution, and then only if they are sufficiently aware of PC internals to check out what they're buying, and maintain it themselves. You can be taken for a ride with overspeced or mislabelled parts, or even missing RAM chips and other problems. So if you aren't an advanced PC user with hardware knowledge, buy an assembled PC only if you know the assembler well enough to trust him and his ability to service it. And as you would have found in our "Build your own Pentium" cover story in April, we strongly recommend your buying the components through authorized channels such as Intel distributors, against a proper bill and warranty, rather than from your local smuggler-dealer.

Brandname products have the edge even when they ostensibly use the "same components". Their manufacturers have done the hunting around and testing of parts for you. They're guaranteeing it all for you. The better brands have also spent a lot of time and money matching and choosing and the components for best performance. And the top brands have their own, optimized BIOS and other components, so that a Compaq or HCL-HP or Olivetti PC will usually outperform your locally assembled unit of the same spec. Finally, many assembled products may be as "compatible" as brandname PCs, but the vendor of an expansion card or peripheral or software is more likely to blame a problem on such a system than if it were a brandname product. One of several reasons why, at PCQ Labs, every test machine is a branded product.

So both for office environments and for novice home users, we recommend branded products. —Ed

---

✉ I am a regular subscriber of *PC Quest*, and while going through the Readers Forum I came across a mention of the PCQ 100 CD-ROM. I am interested to know when was this issued and if its still available.

Anand Mehta
Mumbai, MH

PC Quest carried its first CD-ROM with its 100th issue last August. Since then, we have, at three-month intervals, distributed a new CD-ROM with every copy of the magazine. These aren't available any more with us, however, as the issues concerned sold out within hours on the stands. But with some 50,000 of each of those CD-ROMs out there with users, it's likely that there will be some PC Quest reader near you with a PCQ 100 CD-ROM (especially as Mumbai happens to have our biggest reader base among any city). —Ed

✉ We wish to publish various religious titles on CD-ROMs regularly, for export. We would be very grateful if you can give us information on people who can help us, both in India and abroad, with the supply of CD-ROMs, their replication and other necessary services.

HM Abdul Ravoof
Madras, TN

Among the companies that we are aware of who are involved with CD-ROM production are World Digital Sound at NEPZ, NOIDA, Padmini Polymers at Delhi, Kochs-Rajes at Bombay, and Pentafour Software at Madras. Not all of them will actually have a running CD-ROM plant, but they can provide you with the services you need.

There are likely to be others involved with CD-ROM replication facilities, and we invited them to write to us with their details, as we find quite a bit of interest in CD-ROM replication from readers. —Ed

---

✉ *PC Quest* contains comprehensive reviews of the latest products available. All other computer magazine seemed to be only for business people. But I would like to point out that of the 190 or so pages in PCQ, about half are just advertisements. This gives me a sense of being cheated (considering each issue cost Rs 25).

Shibu TN
Bangalore, KT

We do maintain a balance between the quantity of advertising and the editorial content. But keep in mind that not only do many readers look through these advertisements for products they want to buy, but it's the advertisements' revenue that makes it

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

possible to bring to you the magazine itself at this price, as well as pay for PCQ Labs' considerable expenses on all those reviews! Without advertising, we would have to charge a little over Rs 100 for each issue, just to break even. —Ed

---

✉ I have been a *PC Quest* reader for quite some time, and have almost all the issues. It is a useful magazine for those wanting the latest knowledge and your free CD-ROM with software and demos is certainly commendable and deserves credit.

In India, unlike in the US or Europe, users often cannot afford to buy all of the latest software. To give an impetus to reducing piracy and selling software at heavily discounted prices, and as CD-ROMs have plenty of space, you should also include older versions of software such as Word, CorelDraw, AutoCAD, PageMaker, and utilities with a limited period license.

Atul Jain
New Delhi

That's what was done not just with older versions, but with the complete IBM OS/2 Warp operating system, Lotus Notes, Lotus Word Pro, and several other packages. We're hoping to carry lots more such software in future CD-ROMs. —Ed

---

Y2K PROBLEM

✉ Please publish some more details about the Y2K problem such as the most probable occurrence with details. I have some ideas on solving the so-called millennium problem.

Mohan
Trivandrum, KL

We have in earlier issues this year carried details on the "Year 2000 date problem", about applications going haywire when we cross 1999 into 2000 AD. We'll continue to carry updates. However, while we have received quite a few readers letters suggesting solutions, note that this isn't a little technical problem with a simple one-shot solution; it's essentially a management problem, that of tackling millions of lines of legacy code in critical applications running on systems that don't recognize the year 2000. So solutions are really aimed more at workflow and related processes, rather than at software patches. —Ed

---

SPECIALIZING IN MULTIMEDIA AUTHORING

✉ I am an Aptech student doing a masters diploma in software engineering and also working for a private multimedia firm.

I would like to specialize in multimedia authoring and have assisted in developing two multimedia projects. The software used was Multimedia Tool Book (CBT Edition), but I would like to specialize in the language used for scripting and creating multimedia presentations. Can you give me information on the software used, and other details about courses in India and abroad.

Mayura Saxena
Hyderabad, AP

Multimedia authoring uses a wide variety of software. For serious production work, specialized packages such as Macromind Director and Autodesk Animator are used; in addition, packages such as 3D Studio and various ray-tracing programs may be used for rendering. But you can also put together basic multimedia modules and programs in development environments like Borland Delphi.

Because the technology changes so rapidly, we would not recommend extended courses on multimedia authoring software. Look for a brief and intensive course lasting a few days; we are aware of one such multimedia course conducted by the National Informatics Center at Delhi. The best way is to join a company with makes multimedia presentations—many small ad and design agencies are getting into this. There's nothing like live experience in this, however small the projects. —Ed

---

BASIC INFORMATION WANTED

✉ As a regular *PC Quest* reader, I have a complaint about your editorial content. You publish full length articles on the Internet, Web sites, FTPs, and multimedia CD-ROMs. But our country uses crossbar lines in most of its town and cities, and we can't log in to PCQ Online or other BBSs. As for the February issue, this was the thinnest I've received during my subscription period and I couldn't find my favorite Help Screen in this issue.

Please also publish some tutorials on graphics, DTP and FoxPro. I'm not sure that all PC users use the latest programming environments such as Delphi or Visual dBase.

Jitendra N Dave
Wadhwan, GJ

With a rapidly growing PC user base in India, we're struggling to keep up with the very diverse demands of 250,000 readers. The core readership of PC Quest comprises the power user with significant computing and other resources, but we recognize that this has in the past year been overtaken, in numbers, by less-equipped readers who want more basic information. We're exploring how to address the needs of both these very demanding groups of readers, and promise to look at all options—

including a separate section... a separate magazine... next few months. —Ed

---

INFORMATION ON VIRUSES

✉ We are Select ... and Software, a soft... velopment, computer ... manufacturing and ... nance firm, presently ... loping some anti-vi... ware. Your August ... issue's cover story ... Viruses and their Pre... We would like info... on the latest comput... ses, their performance ... exact signatures to ... our package.

John Ya...
Bangal...

Watch out for an upgrade... summer months. —Ed

INET CONNECTION

✉ I read in the VSN... chure that cities ... that do not have an ... (India's packet-switch... network) pad but STD ... access INET by dialing ... Can you please give me ... information on this ... do I contact, what are ... charges and how do I ... INET using the "099" ... code. Or is it better to ... BBSs through STD? ... information will benefit ... of people as 6,000 ... India have STD access.

Hasit P...
Jaipur

First, you need an ... account—from the DO... the city nearest to you ... INET office. Once you ... you can use 099, if you ... the list of 89 cities with ... This will cost you more ... local call, but significantly ... than an STD call to the ...

However, note that ... have to pay the regular ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ges, in addition. These are ...when you're connecting to ...ther INET X.25 user, but not ...n you're using INET to dial ...into the telephone network, ...ss into a BBS in the target ...This could cost you over Rs ...minute, and the setup time ...nnect speeds aren't worth ...only do this if you already ...an INET account, and if you ...to browse around for a long ...on a BBS.

...we recommend to our PCQ ...e users: use STD to ...nect, but use it efficiently. ...t browse online. Use QWK ...ks and an offline reader ...re are several in the PCQ ...er 95 CD-ROM). Once you ...your REPly packet reader, ...p at fastest speed you can ...D (we've managed 28,800 ...for brief periods, intercity), ...d your packet, and ...oaded the QWK packet. Most ...s will let you do this.

...NET NEWS

...How do I access UseNet ...sgroups using VSNL's GI... Does VSNL provide rn or ...om the UNIX prompt?

...often read about BBSes ...g "on the Internet" or ...ng full Internet access. ...t does this mean?

...ere are several articles ...e days about upcoming ...te Internet providers in ...ess magazines. Why ...n't PC Quest interview ...e of them and give their ...s, etc.?

K Mishra
Bombay, MH

...eNet newsgroups are acc...e after a fashion—read the ...ersations series in PC Que...ebruary 1996 issue for the ...

...BBS "on the Internet" is ...cible via the Internet using ...For instance, if PCQO were ...on the Internet, as it might ...ear, you could telnet to it ..."telnet pcqo.com" comm...and. A BBS with "full internet access" would further let a local dial-up user connect to it and, through it, get out on the public Internet. The BBS then becomes an Internet service provider. This is not allowed in India.

There are no private Internet providers yet in India, only e-mail service companies, which have already been reviewed by PCQ. When they do start operating, you can be assured that PCQ Labs will review them. —Ed

---

INDIAN LANGUAGE WORD PROCESSORS

✉ Where can we get a word processor in Hindi for Hindi text editing?

Who is the authorized dealer of the package "Logo"?

P Subhash Kumar Verma
Thiruvananthapuram, KL

C-DAC of Pune sells a Windows word processor, Leap, which allows bilingual editing. The package is available for trial on PCQ's Spring 96 CD-ROM with the March issue. Another product is an add-on module for Word for Windows 6, called Exec Hindi (see review in this issue). There are also other such word processors from a number of companies.

Logo is a now-ageing language often used to control simple robotic devices, and there are various interpreters for it, some in the public domain. —Ed

Letters for Readers Forum can be sent on the Internet to Readers Forum <pcq@pobox.com>, or to the LET forum on PCQ Online, or by mail to Readers Forum, D-74 Panchsheel Enclave, New Delhi 110017. Due to the large volume of mail, letters may be edited to fit, and not all letters can be accommodated. We are unable to reply personally to mail. —Ed

---

WRITING FOR PC QUEST

❑ Articles offered must relate to products, applications or technology relevant to the personal computer user.

❑ They must be no longer than about 1,500 words, unless specified otherwise by the editor in individual cases.

❑ PCQ does not accept program listings, except for small programs or modules illustrating a point within an article, or very short programs illustrating new or innovative techniques (in SWAP).

❑ Every article must be accompanied by a signed letter certifying that the article is original and is not offered for publication elsewhere.

❑ Manuscripts should be neatly typed or printed, on A-4 copier paper. Articles on floppy (3.5" or 5.25") in plain ASCII text or standard word processor formats will be preferred. Articles can be also be sent by e-mail to **pcq@pobox.com** or to the PCQ forum of **PCQ Online** (11-6221734).

❑ Please ensure that the address is clearly printed both on the covering letter *and* on the manuscript. If a floppy is sent, the author's name and address on a label on the floppy as well as in a README.TXT file in the floppy.

❑ Letters to the Editor must be marked Readers' Forum and must carry the author's signature, name and address. Letters requesting information of general interest will be published, with a response if necessary. We regret that we are unable to reply individually to Letters to the Editor, or to Help Screen queries.

PRODUCT NEWS

To be considered for publication, a write-up for the Product News pages *must* include all of the following:

- Name, type and price.
- Applications and target.
- Full specifications, special features, advantages.
- Availability of final, ready package: when and where.
- The name and telephone number of the person who can be contacted for further details or a demonstration.
- A product brochure.
- The write-up must be accompanied by a good black and white photograph or colour transparency. A write-up without a photograph or screenshot may not be published.
- The product must be available for demonstration and review in any of the four metros or in Bangalore.

Standard press releases without these supports will not be considered for publication.

—Editor

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

YOUR SEARCH FOR THE BEST

(Price/ Performance)

UPS

(uninterrupted power supply)

Ends here

BUY

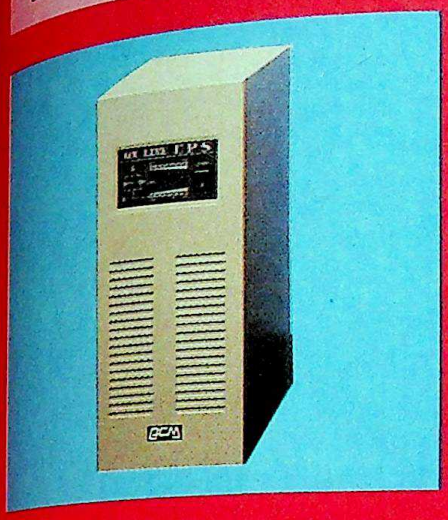
POWERCOM

UPS + AVR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

POWERCOM



The Best Cost /performance UPS for your power protection offers unlimited features such as

- 1ms transfer time
- Microprocessor controlled
- TUV/GS approved
- UPS -250 with Fax Guard
- Built in MF - Batteries wide range 250VA to 10 KVA on line
- Compact yet powerful
- 1 year comprehensive warranty
- Built in Automatic Voltage regulator
- Built in Novell Port

Yes NetWare Tested and Approved

The world leader with the ultimate answer to avoid Data loss during power failure.

- More than 2500 countrywide installations
- All India Dealer sales/ Service network
- Major clients include Airlink India Ltd, Ambience, Aptech, Bank of Gujarat , Beekaylon, BSES, Dart , DTDC, Empire Finance, Essar Steel, Lintas, LLoyds Steel, Mittals, MTNL, Mukand, Polish Ocean Lines, Raghuvanshi- Co-op Bank, State Bank of India, Taj Air Caterers, TCI, Trikaya Grey, (list incomplete).

KUNHAR PERIPHERALS PVT. LTD.

A-23, Shri Ram Industrial Estate, 13, G.D. Ambekar Road, Near Wadala Telephone Exchange, Wadala, Bombay - 400 031.
Tel. : 4130442 / 4130646 • Fax : 91-22-4130218

Factory : Gat No. 142/2/1, Dingraj Wadi, Koregaon Bhima, Taluka Shirur, Pune. Tel. : (02137) 52519 • Fax : (02137) 52520

Authorised Distributors

BOMBAY ★ Avion Electronics Tel. : 3858959 / 3882137 / 3880237 ★ Essens Power Conversion Tel. : 5564284 / 5572259 ★ Sycom Power protection Tel. : 5653230 / 5648169 **POONA** ★ MKM Tubes Tel. : 630695 / 630973 **INDORE** ★ Fino Marketing Tel. : 539634 ★ K.K. Computers Tel. : 533467 **NAGPUR** ★ Viba Enterprise Tel. : 530490 **NASIK** ★ Technocrat's Systems Tel. : 579510 **NAVSARI** ★ Bugs Computers & Systems Tel. : 52654 **NEW DELHI** ★ Axlon System Tel. : 6449075 **BANGALORE** ★ Vak Computers Tel. : 2226192 **HYDERABAD** ★ Rook Technologies Tel. : 819773 **GOA** ★ Computer Shop Tel. : 223712 **BARODA** ★ Pearl Communica Tel. : 452558 **BHARUCH** ★ Pearl Communica Tel. : 36064.

WANTED DEALERS IN UNREPRESENTED AREAS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

IT'S NOT IF, IT'S WHEN

High-performance servers need high-performance power protection

APC Smart-UPS® provide clean, reliable power for systems like Compaq servers.

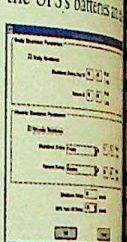
600VA, 1250VA and 2000VA rack mount models also available.

Smart-UPS and PowerChute plus are approved by major network operating systems and now Lotus Notes so you can be sure of compatibility and support.

Power problems are the single largest cause of network data loss. Which is why high-performance computers like Compaq's ProLiant servers rely on APC. In fact, APC UPSs protect more networks worldwide than any other brand.

For a fraction of the cost of a Compaq server, you can have complete protection from blackouts and data-damaging surges, sags and brownouts. Smart-UPS employ the industry's most efficient reliable Line-interactive design and Smart-Trim brownout correction, which extends battery life.

During an extended power loss, PowerChute *plus* software automatically conducts a safe system shutdown *before* the UPS's batteries are exhausted and, when power returns, reboots the system.



PowerChute *plus* also makes UPS management easy. You can schedule daily or weekly UPS self-tests, server shutdowns/reboots. From your workstation you can also manually conduct UPS tests, configure settings, shut down/reboot servers and diagnose power problems. New FlexEvents allows you to create preset responses to problems, including "paging users." Many network management systems, like Compaq's Insight Manager allow you to monitor valuable UPS information such as temperature, load and runtime from UPSs on your WAN.

Find out today how Line-interactive Smart-UPS and PowerChute plus management software can deliver the power protection demanded by high-performance systems like Compaq servers.

FREE Information on Smart-UPS!
Mail or fax to Dept JOSA
Fax: (+91)44-434-1464

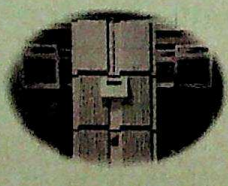
Name _____
Title _____
Company _____
Address _____
City _____ State _____ Postcode _____
Phone ( ) _____

ProtectNet™
High-performance telephone and dataline surge suppressors.

Back-UPS® & Back-UPS® PRO
UPS for PC and advanced workstations

Smart-UPS® & PowerChute *plus*
Manageable UPS for servers and networks

Matrix-UPS™ & Accessories
Modular UPS for client/server datacenters



APC
AMERICAN POWER CONVERSION
THE WORLD'S MOST RELIABLE POWER PROTECTION
5A CENTURY PLAZA, 560 ANNA SALAI, MADRAS 600 002
TEL: (+91)44-433-1124 / FAX: (+91)44-434-1464
NEW! WEB POWERPAGE: www.apcc.com
REQUEST INFORMATION VIA INTERNET: isbinfo@apcc.com

© Copyright 1996, APC. All Rights Reserved. Trademarks identified are the property of APC. Other marks used are the property of their respective owners.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Linux and the Internet

Now that 50,000 PCQ readers have Linux in their hands, let's get them on the Internet

In March '96, 50,000 people across India received Linux on their PC Quest CD-ROMs. The amount of mail I have received about it, is frankly, amazing. The most common questions include "How do I connect to the Internet with Linux?" or "How do I set up a web server using Linux?" This month, I am going to address both issues, because they go hand in hand.

LITTLE BACKGROUND

Linux needs no introduction, not after PC Quest March '96. However, let me reiterate a few points here:

Linux comes to you "Internet ready". All the required tools are built in and ready to be used. All you need is to set it up, change a few parameters here and there, and get up and running.

For space reasons, we couldn't put the complete Linux Slackware CD-ROM onto the PC Quest CD-ROM. One of the modules omitted was the NCSA HTTPD web server, used by virtually every Linux web server in the world. This has now been rectified: you can download it from PCQ Online, CiX (080-948137) or the Internet.

You can set up a Telnet/FTP/Web/E-Mail server with the software we supplied, and provided you have a TCP/IP account (PPP/SLIP), you can get your server up and running, and accessible, virtually instantaneously, making this a perfect solution for a small- to medium-sized business.

With that out of the way, let's get the show on the road.

MAKING LINUX NET-READY

Nothing to it. If you have installed Linux according to my instructions in the March issue (or check my web page at `http://cybercom.net/~achitnis`), and installed TCP/IP support with it (remember, I asked you to do this), then you are almost set. Just to make sure, log in as *root* and run the command *ping localhost* which should give you a stream of ping results (stop them with Ctrl+C).

Now run the command *netconfig*. This will ask you a few questions (you may have gone through this before, but let's do it again), answer them as follows:

When asked for Hostname, enter a name of your choice. Remember, unless you actually have your hostname, this name has no significance. My machine is known as *cybercom*. And remember to stay in lower-case.

You will be asked about your domain. I use *iisc.ernet.in*, you would use `giasxx01.vsnl.net.in` (where "xx" is your city code).

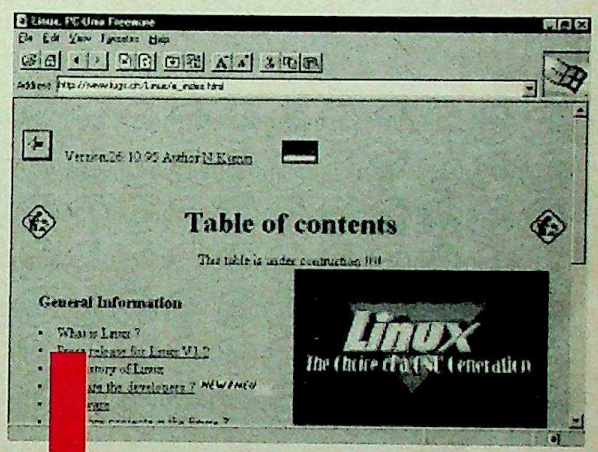
When asked about "Loopback only", answer NO.

You will be asked for an IP address. You do not have a real address at this time, so use 192.0.1.1.

At the question of Gateway, enter the same address as above.

Next you will be asked for a Netmask—enter 255.255.255.0.

You will now be asked for a Name Server—enter 202.54.1.30 if you are on VSNL (202.54.1.81 for Delhi users), or 144.16.11.1 if you are on ERnet.



Linux comes to you "Internet ready". All the required tools are built in and ready to be used.

That's it for the moment. A warning though, if you've created entries in the file /etc/hosts, backup this file before you run netconfig, because the file will be deleted.

Shut down Linux and reboot, then check whether you can ping your host by name (for example, I would run *ping cybercom.iisc.ernet.in*). If you get back ping results, you are ready to move.

Now use your communication program (minicom) to connect to your TCP/IP dialup number. Log in, and at the router prompt (e.g. giasro04>) type "ppp" and press <Enter>. Make sure that your get a message telling you what the remote IP address is and what your address is. The values themselves are not important, since they may change with every call. I just want you to be sure that you get

Atul Chitnis is a datacom and network consultant in Bangalore. You can reach him via E-Mail at *achitnis@pobox.com* or via his web pages at *http://pobox.com/~achitnis*.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

such a message. After you get it, you can hang up, and proceed with the installation.

Now change to the /etc directory, and create the following script file. You can use VI for this if you are comfortable with it, else use the "joe" editor, which is pretty much WordStar-like.

You have to change a few settings here. One of them is your COM port (by default, it is set to "cua02", change it to "cua0" (cua-zero) for COM1 and "cua1" for COM2. Unless you have a 16550 serial port, change the 38400 to 19200.

Change the phone number in the right place to the TCP/IP dialup number for your area, and also change the username and password. Save this file as /etc/ppp.dip. You can also pick up this file from http://ece.iisc.ernet.in/monster/library/index.html.

THE DIALUP SCRIPT

```
#!/usr/sbin/dip
main:
  get $mtu 1500
  # Ip number of the slip router
  # Used for the point to point type connection
  get $remote xxx.xxx.xx.x
  # Set the desired serial port and speed.
  # Remember that Com1 is cua0 and Com2 is cua1
  port cua1
  speed 38400
  parity N
  databits 8
  stopbits 1
  # Reset the modem and terminal line.
  flush
  send \r\n\r\n
  # Initialization for the modem
  send ATZ\r
  wait OK 2
  send AT&c1&d2&n0x1s10=200s7=90\r
  wait OK 2
  if $errlvl != 0 goto error
  # Dial our PPP server from local phone
  # Change xxxxxxx to your local dialup number
  send atdtxxxxxxx\r
  wait CONNECT 90
  if $errlvl != 0 goto error
login:
  # We are connected. Login to the system.
  wait username: 10
  if $errlvl != 0 goto error
    # REPLACE uuuuuuuu with your login name.
  send uuuuuuuu\r
  wait password: 20
  if $errlvl != 0 goto error
  # REPLACE pppppppp with your password.
  send pppppppp\r
  # Now wait for the router prompt...
  wait > 30
  send ppp\r
  # Now we wait for the assigned IP address
  # First comes the remote IP address (the
router)
  wait is 10
  get $rmtip remote
  if $errlvl != 0 goto error
  # and now we get our IP address...
  wait is 10
  get $locip remote
  if $errlvl != 0 goto error
done:
  # That's it! Now let's make sure the
packets are sent by default
  # to this new connection (which is
ppp0, by the way)
  default
   # The following let's you know
happening
  print PPP to $remote with address $
 print Run ping $remote to check the
  # And now switch into PPP mode and
communicating
  mode PPP
  goto exit
error:
  print PPP to $remote failed.
exit:
# End of script
```

OK, now that we have the script in place, you have to do is run it with the "dip" program which you do by running the command:

```
dip /etc/ppp.dip
```

If all goes well, you should get a message that you are connected and what your IP addresses are. It will also ask you to run the "ping" command with the server IP address to make sure that you are indeed connected. Doing so should give you a stream of results—you can cancel this with ctrl-c.

If you have another phone line, call up a friend who has an Internet account, and ask him to telnet to your IP address

CHECKING OUT YOUR IP CONNECTION

Once you have the IP connection running, you can try a few things. The first you could try is to use the "telnet" command. If you are connected to VSNL, try the command:

```
telnet giasXX01.vsnl.net.in
```

where XX is your city code ("dl" for Delhi, "bm" for Mumbai, etc.). In a few seconds, you should be connected and asked for your login name. Enter your login name and password and you have logged in to your VSNL Shell account.

If this does not happen, you may have goofed with the DNS (Domain Name Service) configuration. Use your editor to edit the file /etc/resolv.conf, and make sure that the proper DNS addresses are shown there. It should look something like this:

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
main vsnl.net.in
meserver 202.54.1.30
meserver 202.54.1.18
```

this is not the case, edit the file until it like the example above. Save the file, try the telnet command again.

Once you have things working, try an FTP to `ftp sunsite.unc.edu`), this should also

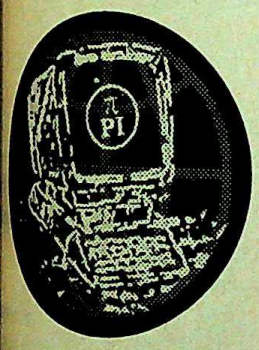
ow for something more thrilling. If you another phone line, call up a friend who an Internet account, and ask him to telnet ur IP address (that's what is reported to when you connected). Make sure you created an account for your friend—use "adduser" command for this. He will receive gin prompt, where he gives the user id and sword you have given him.

That's it! He is logged into your system. In the same fashion, he can also FTP to your system to send and receive files, and he can also "talk" to you (use the "talk" command for this. You can find out who is logged in and doing what with the "w" command. To disconnect the PPP connection, run the command "dip -k". Make sure that everyone is logged off before you do this.

LOGGING OFF

Right, now that we know how to create an IP connection to your Internet provider, we need to look at more things, like how to access the World Wide Web, how to send and receive e-mail, how to set up a Web server of your own, how to set up an FTP site, etc. That's the subject of discussion over the next few months, so stay tuned.

Cheerio! ■



Publish your own WEB PAGE on the Internet

for **Rs. 450 per month**

A Never Before offer to publish your own Home page on the World Wide Web (Internet)

With Pharos you can get your own Custom Domain as www.custom_name.com, so you have your own independent Web site!

Visit some of the sites hosted by us :

The Maharashtra Udyog Bhavan	- at "http://www.maharashtra.com/"
Computer Book Shop India	- at "http://www.cb-india.com/"
The LiveWire BBS Calcutta	- at "http://www.lwbbs.com/"
Microcomputer Users' Club	- at "http://www.lwbbs.com/muc.html"

PHAROS INFOTECH

113 Southern Avenue, 3rd Floor, Calcutta 700 029

BBS : +(91)-33-4667915 ◆ TEL : +(91)-33-4667920 ◆ FAX : +(91)-33-4667915

HomePage : "http://www.lwbbs.com/pharos.html" ◆ E-MAIL : webmaster@lwbbs.com

CONTACT US FOR UUCP MAIL

Pharos Infotech also operates The LiveWire BBS! Calcutta

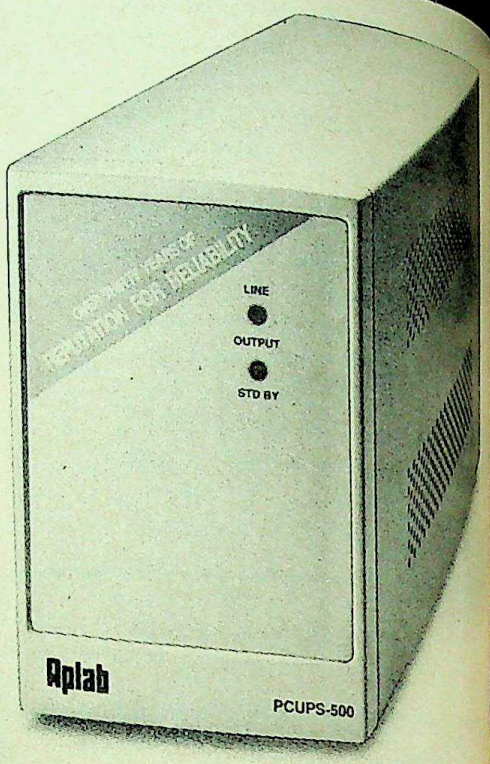
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Unbelievable DEAL!

500VA UPS

WITH BUILT-IN MAINTENANCE FREE BATTERIES



AT JUST

Rs 9800/-

ALL INCLUSIVE, DOOR DELIVERED

Offer Includes

- All Duties & Taxes
- Free Door Delivery
- Full Installation & User Instructions
- One Year Free Service
- APLAB's International Guarantee - 'GS' Approval Marking

PLUS GIFT COUPONS TO EARN Rs 1500/-

SPECIFICATIONS

INPUT		
Voltage / Frequency	:	160V to 253V / 47 to 53 Hz.
AVR Range	:	184V to 253V AC.
OUTPUT		
Voltage / Frequency	:	230V AC / 50Hz.
Power	:	500VA / 300 Watts.
Regulation (AVR)	:	±8%.
(Backup)		±5%
Transfer Time	:	4 to 10 msec.
Overload Capacity	:	200% for 150 msec. Short Circuit Protected.
SYSTEM		
Battery Backup Time (1/2 load)	:	15 minutes.
Audible Noise	:	Less than 45dB.
RS232 Port	:	Yes.
Indications	:	Line ON, Output ON, Standby
Dimensions	:	365(L) x 115(W) x 170(H) mm
Weight	:	13 Kg. (with Batt. inside)

WHAT IS APLAB DIRECT

'APLAB-DIRECT' is APLAB's way to reach the customers fast, to serve them instantly and give them outstanding value for their money. Ten offices of APLAB in all Metro cities offer this service now. Progressively it will reach other Cities & Towns.

To receive products offered by 'APLAB-DIRECT', only thing customer has to do is send us a Cheque at the indicated *Prices*. These Prices are inclusive of Taxes & Duties. Within a short time (within a week after your cheque is encashed) we give you ***Door Delivery***. Detailed instructions gives you all that you need to use the product without hassle.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

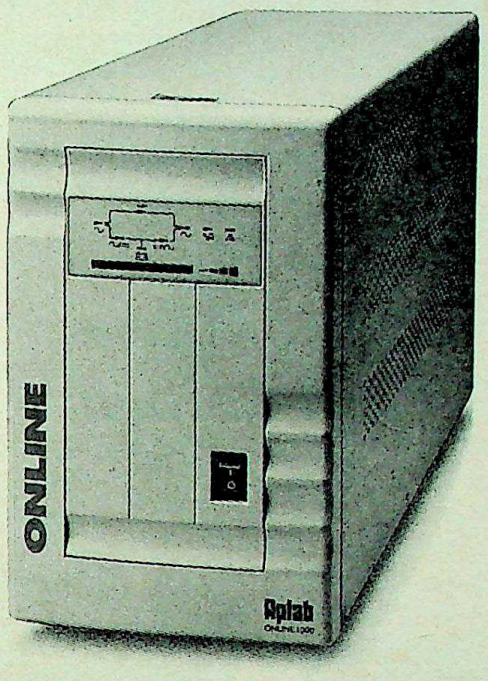
Digitized by Arya Samaj Foundation Chennai and eGangotri

A Dream come TRUE !

1000VA ONLINE

MOSFET - Micro Controlled

SINEWAVE UPS



- True Online Operation
- Built-in Maintenance Free Battery
- Totally Breakless Clean Power-Free of Spikes and Transients
- Extra Wide Input
- Input PF Correction to Save on Power Consumption
- Precision Micro-controller based Circuitry

PLUS GIFT COUPONS TO EARN Rs 4500/-

SPECIFICATIONS

INPUT	
Voltage / Frequency	: 230V +15 -20% / 50Hz.
Power Factor	: 0,95.
OUTPUT	
Voltage / Frequency	: 230V AC / 50Hz.
Power	: 1000VA / 700 Watts.
Waveform	: Sinewave.
Static Bypass	: Yes.
SYSTEM	
Battery Backup (1/2 Load)	: 15 minutes.
LED Status Mimic Diagram	: Mains ON, Static Bypass, AC to DC, Dc to AC, Battery Backup, Output, Overload, Fault
LED Bar Graph	: Load & Battery.
Audible Noise	: Less than 45dB.
Computer Communication Options	: PC Unix / HP UX / Novell / DOS / Workstation Unix.
Protections Against RFI / EMI / Lightning / Disturbance	: FCC Class B / IEEE 587 / IEC 555 Standards.
Dimensions	: 500(L) x 150(W) x 247(H) mm
Weight	: 20 Kg.

ALL THIS AT JUST

Rs 39400/-

- WITH BUILT-IN BATT • FREE DOOR DELIVERY
- INCLUDES ALL TAXES & DUTIES
- *PC COMMUNICATION SOFTWARE AVAILABLE*

BOOK YOUR ORDER TODAY, CONTACT

APLAB DIRECT

SUPER QUALITY PRODUCT AT VERY AFFORDABLE PRICE

BOMBAY
TEL: 8343642, 8381787
FAX: 022-8388366

SECUNDERABAD
TEL: (040) 843351, 867788

DELHI
TEL: (011) 7534029
FAX: 011-7777460

PUNE
TEL: (0212) 790784
FAX: 0212-791787

BANGALORE
TEL: (080) 5581109
FAX: 080-5580795

LUCKNOW
TEL: (0522) 216314
FAX: C/o.0522-222061

CALCUTTA
TEL: (033) 2441175
FAX: 033-2440397

CHANDIGARH
TEL: (0172) 692466
FAX: C/o.0172-693607

MADRAS
TEL: (044) 4344499, 4343107

TRIVANDRUM
TEL: (0471) 461095

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

microware CD-ROM

CICA 3/96 (2 CD Set)

The ultimate collection of Shareware for Windows! 3,062 Programs (1,223 Mb) for Microsoft Windows. Utilities, Games, Icons, Programming Tools.

Rs. 1,125/-

Simtel (2 CD Set)

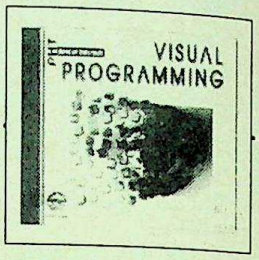
Direct from Internet. over 1200 Mb (10,000 files) of MSDOS Shareware programs.

Rs. 1,650/-

Linux 3.0 (2 CD Set)

Slackware Linux is the Internet's favourite 32 bit Unix clone. Linux is compatible with most Intel PC hardware from 386 to Pentium

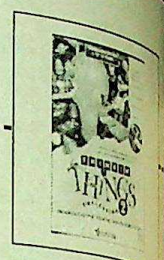
Rs. 1,575/-



Visual Programming

Source code and tools for Visual Basic and Visual C++. Source Code, DLLs, Utilities, Custom Controls, Control Utilities and more

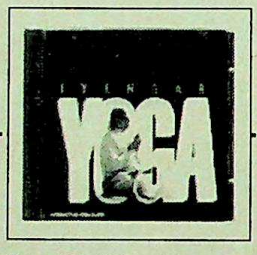
Rs. 1,425/-



Thinking Things 2

Imaginative Tools and Toys to Strengthen Kids' Thinking! Develops Essential Thinking Skills for Kids 6 to 12!

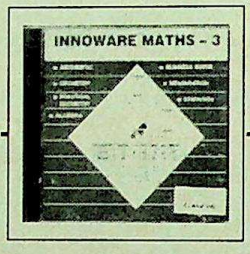
Rs. 1,000/-



Yoga For All

An interactive yoga guide by the master - Mr. B. K. S. Iyengar. A guide to over 40 Asanas. 45 minutes of Video, 4 hours of Audio and over 1000 images!

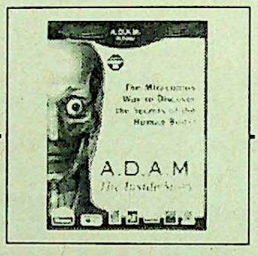
Rs. 1,450/-



Innoware Maths #3

A convenient collection of Maths tutorials for class VIII students. Also available, over 20 other tutorial on different subjects from primary to class X. For Windows

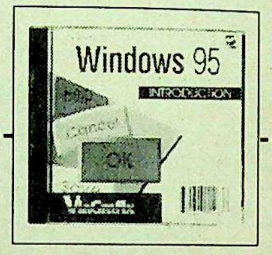
Call!



A.D.A.M. The Inside Story

The miraculous way to discover the secrets of human body! Award winning program for Windows and Mac.

Rs. 2,500/-



Learning Windows 95

Interactive CD-ROM training! Over 4 hours of detailed instruction, full motion video and sound guide! Training titles also available for other software.

Rs. 2,750/-

3500 Colour Clipart #1

An enormous collection of high quality detailed images in full colour. Over 40 categories for Windows and Mac. Also available Vol. #2

Call!

Ask for your copy of our CD-ROM catalogue on disk. Our CD-ROM Catalogue-on-Disk software gives you complete information (over 300 pages) including features, system requirements of all the CD-ROM titles that we stock. You also get 10 True Type Fonts & 100 B&W Cliparts Free! The Catalogue is available on 1.44 Mb Floppy Disk and is priced at Rs. 100/- The Catalogue amount is adjustable against your first order of any CD-ROM Title (except Walnut Creek and Plus Sampler). The Catalogue requires 640 Kb RAM and 2 Mb of Hard Disk Space. OUR CD-ROM CATALOGUE IS ALSO AVAILABLE ON PCQUEST DECEMBER'95 CD-ROM.

Over 300 titles for Dos, Win/Win95, OS/2, Unix & Mac on General / Shareware, Operating Systems, Programming Tools, Utilities, Edutainment, Internet, BBS, Astrology, Health, Fitness, CAD, DTP, Cliparts, Fonts, Animation, Graphics, Video, MPEG II Movies, Video CDs, Photo CDs, Image Libraries, Games, Music, Sound & many more

Microware Computer Services

1, Paras, Near Dr. Baliga Nursing Home, S. V. Road, Goregaon (West), Bombay 400 062 Tel : 872 74 46, 872 97 25, Fax : 872 74 46

Microware CD-ROM collection is also available at :

BOMBAY : Crossword - Tel : 4922458, 4924882, 4938311 Fax: 4938406 Rainbow : Tel : 387 02 60, 388 14 43 Fax: 388 09 91, Computer Point - Tel : 4948380, 4922907, 4934111 Fax: 4935904, Marusoft - Tel : 873 86 35, Fax : 873 86 35

DEALERSHIP ENQUIRIES SOLICITED

We accept Master and Visa Credit Cards. For Outstation Orders, 100% advance has to be remitted by Demand Draft in favour of Microware Computer Services payable at Bombay. Outstation orders will be shipped by courier. Please add Rs. 100/- for packaging and courier charges. When ordering our Catalogue, please add Rs. 25/ for shipping and packaging charges. Microware is the authorised distributor of Walnut Creek CDROM (USA), Pacific Hi-Tech (USA), Tech Express (USA), PS Multimedia (USA), Viagrafix (USA) and Accurate Research Inc. (USA). We are not responsible for any typographical errors. Prices subject to change without notice.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

VSNL GIAS Update

VSNL's Internet service improves security, shoots itself in the foot

India's sole public Internet access provider, VSNL, has begun tightening security on its Gateway Internet Access Services (GIAS) servers across the country.

As we go to print, the Mumbai and Delhi nodes have experienced the changeover which, though an effective security measure, also renders the shell accounts of VSNL largely useless.

Is It A Security Risk?

VSNL users who used to operate by using their counterparts abroad (or users within the country) FTP into their accounts to send or receive files (a very common and effective way of doing things) are in for a brutal shock—VSNL has terminated inward FTP access. FTP can now only be initiated from within the VSNL server.

Even worse, VSNL has terminated such services such as rlogin (which allowed a faster login into the server from outside of VSNL) and finger (which allowed people to obtain information about a user—such as last login date/time, contents of the .plan file, used by users to provide more information about themselves) etc.

And Finger, Too?

While the removal of a "Wild Card finger" (a finger command without user-parameters which would give the list of people logged into the server) is justifiable, the removal of the ability to finger specific accounts is not. The biggest losers are the TCP/IP account users, who used the .plan file to advertise their personal IP address. Also, users who used to add the line "finger xxxx@giasdl01... for more information about me" are now out in the cold.

VSNL is now finally giving users a restricted "shell prompt". But this one is eyewash—there is even less you can do with this shell prompt than you could with the fixed menu structure.

For example, the Kermit command, which was the Swiss army knife for VSNL users for file management, a cleaner telnet, etc, has now been stunted and mutilated down to a simple file transfer package without any extra functionality.

Users who were praying for the shell prompt so that they could use SLIP emulators like SLiRP or SlipKnot are in for disappointment—neither package can be used. This is because all commands executable by a user at the shell prompt are stored in the directory /usr/rbin—you cannot execute any programs stored in your own directory. In fact, you cannot even change directories. If you had created a minor directory hierarchy of your own under your own home directory on VSNL and had stored files there, you are in trouble—getting at these files is now more cumbersome.

Mumbai VSNL shell account users, who are also under these restrictions, retain access to the old Kermit program, and also have other options not available at Delhi—IRC (Internet Relay Chat), gopher, etc.

By the time you read this, these restrictions could well be in place at other VSNL sites.

One jarring bit is that the Zmodem commands (rz and sz) used at Mumbai and Delhi are modified, and also contain a free advertisement for a user. The code has been hacked, additional lines added, and redistributed—a copyright violation endorsed by VSNL, and highly unethical.

Crackers Unlimited

The background to the security scare is the repeated intrusions by "crackers" who used other people's accounts, especially those that had extremely simple passwords, which could be easily guessed by specialized programs.

For instance, suppose NIIT Ltd took an account with the login "niit" and used the password "NIITLTD"—this would be one of the first to be guessed by a cracker program. VSNL directors Amitabh Kumar and R K Gupta were reportedly two favorite targets: some rumors claim that their passwords were simply Amitabh and rkgupta (which were also their logins)...

Better Access

Like Mumbai, Delhi users have been now experiencing quick dial-up access each time, thanks to additional lines. And higher-speed backbones direct to the Internet have helped speed up things considerably. There are still complaints from other cities, but things are getting better.

Guest Accounts

One thing that few people know about is that all VSNL sites have a special account (login "guest", password "GUEST") that allows people who are travelling to connect to their home server to access their accounts there. For example, if you have an account at Delhi, and travel to Bangalore, log into the Bangalore server with the above mentioned login name and password. You will be shown a menu which allows you to connect to any of the other servers. This is a useful thing, and VSNL should give more publicity to this.

Atul Chitnis with PKR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

a commitment to UPS systems worldwide, inseparable as flowers & the honey bee!

The CSB BATTERY CO.LTD., Taipei, a pioneer in the SMF battery technology & production engineering & the CSB BATTERY are known the world over for their commitment to UPS systems. In India too more & more UPS companies have come to rely on CSB. For uniqueness of product features & design. For performance. For consistence in quality. For delivery schedules & above all for the value for money it provides.

Are your UPS systems backed by the power of this commitment ?

CSB BATTERY CO. LTD.
AN ISO 9002 COMPANY
BATTERY
CSB
clearly a front-runner

Authorised distributor for India
ORCHID ELECTRONICS
R-165, Greater Kailash - I, New Delhi - 11[illegible]
Ph. : 643 6955, 647 9386 Fax : (011) 646 [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

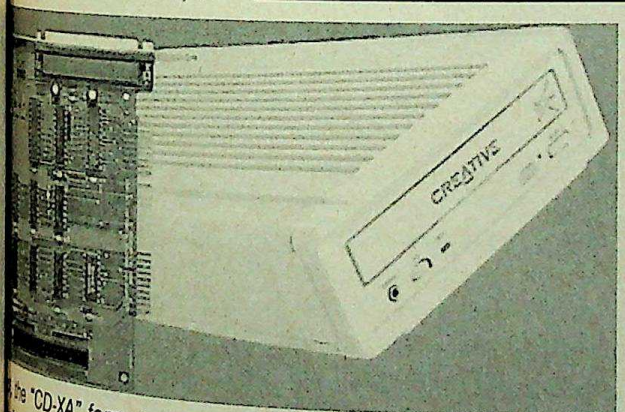
AUDIO TO CD-ROM

have an audio CD player has, in addition to the al analog output, a digital put. Is it possible to hook this to my PC through any able adapter and use any dependently available soft- driver that would let me use my CD player as a CD- drive for my PC?

Subhendu Joardar
Calcutta, WB

No. Though the basic audio format is similar to CD-ROM, audio CD player's control elec- ics and logic are different. An audio CD merely has groups of data that are accessed sequen- ly—the music tracks—and are separated by the digital equiva- lent of silence. The CD-ROM is more complex, with a file-system for much optimization for ran- access as well as sustained output several times the au- CD rates.

Most CD-ROM drives can also usually read audio CDs; in the "CD-XA" format allows data to be interspersed with audio on the same tracks, and most CD-ROM drives can read it. You may think of a CD-ROM system as a superset: it can read both data CDs and audio CDs. But very few audio CD players (amo- them a single Sony DiscMan) can read CD-ROMs; if they do, they are essentially a CD-ROM drive. You will be sure to have a com- patible interface, parallel or SCSI. The "digital output" that a CD player has is music en- coded as a stream of binary data—pulse-code modulated (PCM) data. It can be used for directly transferring music in digi- tal format, usually on digital au- dio tape (DAT). A PC's sound card can accept this only if it has a PCM input, and few desktop- quality cards do so.

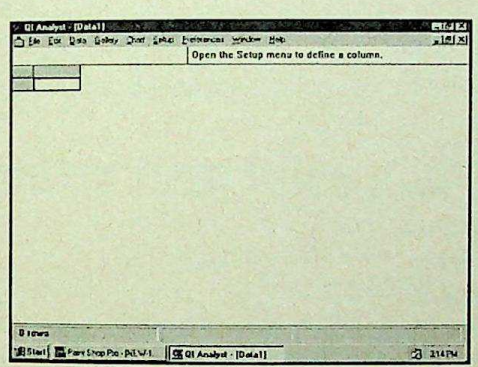


TRIALS AND TRIBULATIONS

✉ When installing the QI Analyst trial version on the PCQ Winter 95 CD-ROM to my system, I got the message "Trial Version-System Time-out". Even on changing the system date, a message "Check System Date—Cannot Run on a Back Date" appears. During installation, after 70 percent is completed, it asks for the Advanced Version disk. As I don't know this disk's number, can you send it to me.

As for Executive Desk 5.0, I am unable to run it as I get a "Trial Version - System Time Out" message.

G Vasudevan
Madras, TN



For QI-Analyst and SPSS on the Winter 95 CD-ROM, read the instructions given in our March issue before using the new license codes. Don't select the SPSS Advanced Version option, as this software is not available on the PCQ CD-ROM.

Executive Desk 5 was time-limited and will not run now.

However—if you want to try things out anyway, you can set the system clock back a few months before attempting an install for the first time. If you try an install on a current-date system, the app might install code there which will be checked if you later try to back-date the system and re-install. Don't overdo the back-dating; some apps may check that the system date isn't older than the app itself. Some even cleverer apps will check if your CONFIG.SYS, WIN.INI and other critical files aren't much newer than the system date.

RAM REALITIES

✉ I have a 386DX server with 4 MB RAM and two 286 nodes attached. With DOS 6.2 I get error messages like "Not Enough Memory" when running FoxPro apps. If I try to load HIMEM and put a "DOS=HIGH" command, the server gives the error message "At least 1,024K is needed". What is the problem?

KS Seenu
Thrissur, KL

It isn't clear what server software you're using. Whatever it is, your "server" is under-configured. For any NetWare version, you need to start with a 16 MB RAM and a 486. If you're using DOS=HIGH, etc, you're probably running peer LAN software like LANtastic, in which case you could try to get by with 8 MB, but then if you're also running FoxPro et al, you need to go back to 16 MB. RAM is affordable now, so it's worth your while to buy it.

✉ We have with us eight 16 MHz 386 PCs, and want to upgrade the RAM from 1 MB to 2 MB. Please suggest some way of doing this.

DB Chhetri
Vidisha, MP

You probably have eight SIMM banks inside, with four of them populated by 256 kB SIMMs. You simply need another four 256 kB SIMMs—if you can get them, because they're pretty much obsolete now with 1 MB...32 MB SIMMs commonplace.

And even if you do, it isn't worth the bother. There is very little difference in performance between 1 MB and 2 MB. For a few apps, such as run DOS text editing or data entry apps or very small DOS financial packages, 1 MB is sufficient; for most other apps, you need to start at 4 MB, so that you can set aside at least a 512 kB...1 MB disk cache. So if you have a memory crunch, go to 4 MB for DOS apps, and 8 MB for Windows apps. In some PCs, you'll be able to simply add four 1 MB SIMMs (to get a non-standard 5 MB); in most, you'll have to replace the existing SIMMs.

As in most such cases, theory is cheaper than practice. An 8 MB upgrade for 8 PCs will cost you up to Rs 50,000. A cheaper option is to "compromise and reallocate". For instance, if you have four PCs that run Windows apps, put in 8 MB there. And take those four sets of 1 MB SIMMs out and plug them into your other four PCs, so you get an all-round "appropriate technology" upgrade for about Rs 25,000. (Incidentally, RAM is getting cheap, and some sources could give

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

you 4 MB for less than Rs 2,000).

ERRATIC BOOTUP

✉ I have a 386 with two floppy drives and a 120 MB hard drive. The bootup sequence option in my CMOS setup has been set to "C:, A:". The system was working fine for the past two years but now the machine just freezes while booting. Even the message "Starting MS-DOS..." doesn't appear. When I tried setting the bootup sequence to "A:, C:" the system boots up all right but a strange thing happens. If I boot with a 360 kB floppy, the drive refuses to read 1.2 MB floppies, and vice versa. Formatting my HDD and re-installing DOS didn't help. Can you shed any light on what's wrong?

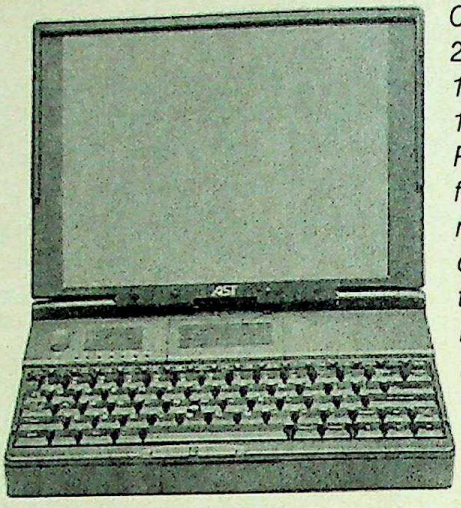
M Vijay
Secunderabad, AP

One likely possibility: your CMOS Setup is corrupt. Reboot the computer and enter SETUP (the DEL key on most systems) and then select "Load BIOS SETUP Defaults". After this has been done, go into the Standard Setup and then ensure that your drives, etc, are properly configured. If there's an "IDE hard drive detect" or "Hard disk auto-detect" function, use it.

Finally, having booted from a clean floppy disk, run the DOS command FDISK with the /MBR option (FDISK /MBR), and follow it up with a "sys c:". If all else fails, you need to back up your data, delete your hard drive partition (using FDISK), and recreate it. That's followed by a format. But all this is a last resort—too many "reformats" are unwarranted and a waste of time.

BUYING SUPPORT

✉ I recently bought an AST Premium 386SX notebook computer second-hand from a person who had bought it



from Manila. I have been having lots of problems with it. Please suggest the appropriate solution.

AR Azhagappan
Madras, TN

You haven't mentioned what the problems are, so we can hardly suggest a solution.

Notebooks use propriety design and components, from SIMMs to chipsets to displays and drives. So only specific vendors can repair a notebook series. However, several of the larger AMC companies do repair notebooks. You could also ask AST representatives in India about the serviceability of the notebook you have. AST is represented by Tata Unisys, CMS Computers, Tangerine Informatique, PCS Industries and Advanced Micronic Devices. Tata Unisys and CMS should have local dealers; check the Madras phone directory.

INVISIBLE CD-ROM

✉ I have OS/2 installed on my system. Sadly, it does not recognize the CD-ROM drive. What do I do?

Khan Md Ashraf
Madras, TN

OS/2 Warp's support for non-SCSI (IDE) CD-ROM drives is not as universal as users would have liked; far from it. Try the different CD-ROM drivers on the OS/2 CD-ROM (or on the PCQ 100 CD-ROM in August 1995, using Sony, Panasonic or Matsushita for the CD-ROM drive name (depending on your drive). Doesn't work? Try the updates and patches in the PCQ Spring 96 CD-ROM in March 1996.

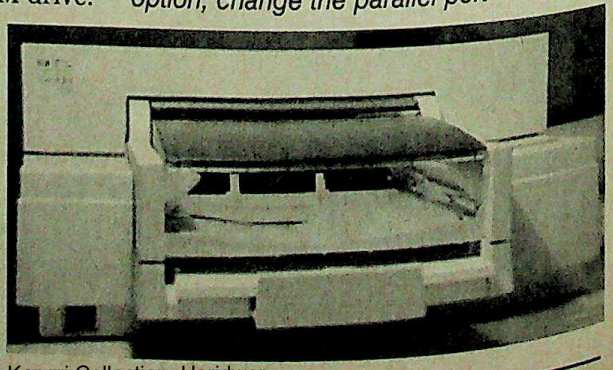
The PCQ 100 CD-ROM had a floppy-install routine to create installable floppies, to let you install OS/2 Warp or update your OS/2 setup. But this does not of course make your CD-ROM drive usable, so you have to look for the right driver. Finally, you can try Tata Information Systems' software division for support and the right drivers, assuming you have a registered copy of OS/2.

PORT VS PRINTER: NEVER THE TWAIN SHALL...

✉ I have a PC with an HP DJ 520 printer. My problem is that when we boot the system without connecting the printer, the BIOS shows the presence of a parallel port. However when the printer is connected to the computer via the parallel port, the BIOS does not show the presence of the parallel port. Due to the above problem I am unable to print. Please suggest a suitable solution.

Sudhir Tandon
Patna, BH

If you have such a BIOS Setup option, change the parallel port



modes between EPP and ... dard and see if this ... problem. Or check your ... windows driver; if it's ... you'll have a setting for ... tional or Unidirectional ... dard); select unidirectional ... check.

If it doesn't work, try ... the problem: what if you ... the PC, check that a para... is detected, and then ... your printer? What if you ... the PC first and switch ... printer later? If your repo... rect, in both these situa... printer should work. Use ... like MSD (in your Windows ... tory) to check for para... detection.

In any case, you may ... electrical problem—some ... or leakage currents affect... parallel port. Try using the ... with another PC, and ... another printer with your ... may either need better ... ing for both PC and print... new multi-I/O card in your...

ACCELERATION M...

✉ Could you tell me ... increase my 386DX's ... Will adding a math co-pro... sor increase speed in ... applications? Can ... the clock crystal ... speed? If yes then is it ... mended? Further, ... puter does not recog... its memory—it reads ... 640 kB.

Can an inkjet print... parencies?

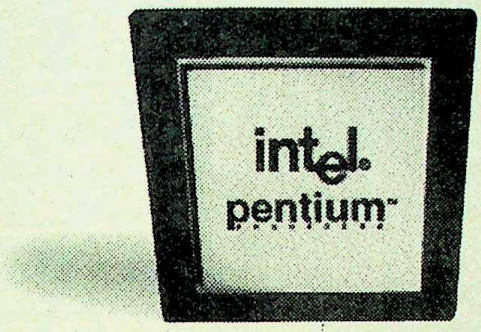
N... Calcu...

A math co-processor ... speed up ... crunching ... spreadsheet ... CAD software ... affect other ... as word-pro... and database ... Don't ... the crystal ... work. That...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Begin With twin intel® Advantage



and

motherboard

Experience the amazing power of **pentium™** processor
And the high performance of motherboard made by **intel®**

Now available from Priya at a special package price !

FEATURES

- WINDOWS 95 - ready
- High performance PCI local bus
- Flash BIOS for future up-gradability
- Level-5 Over Drive Ready
- Plug and Play
- PCI enhanced IDE on board
- On board 2 serial, 1 parallel port and FDD controller.
- EDO DRAM Support.

THE PRIYA GROUP

PRIYA INTERNATIONAL LTD., THE AUTHORISED DISTRIBUTOR FOR INTEL, CONTINUOUSLY BRINGS YOU HIGH END, HI-TECH PRODUCTS AT RIGHT PRICES. ADD TO THAT THE BENEFIT OF PRIYA'S SERVICE, PRODUCT WARRANTY, TECHNICAL SUPPORT AND THE ASSURANCE OF GENUINE QUALITY. AND YOU HAVE BEST OF BOTH THE WORLDS.

Now stocks available from our local outlets also.

Priya GROUP

TRUE VALUE FOR YOUR MONEY

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 266 3783, 285 4037

Branch Offices: Bangalore: Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422378, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

*The Logos and Trade Marks shown above are of their respective owners.

Vandit Designs PIL/06/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Intelligent Anti-Virus Toolkit

STOP VIRUS BEFORE DOS

IAVT

Q : WHAT IS VIRTUAL INDICATOR ?

Ans : "Virtual Indicator" to stop virus before DOS
Ans : Stops even unknown boot viruses
Ans : Will stop boot viruses not even written as yet !
Ans : Security and protection of Hard Disk before DOS
Ans : Does not use any hard disk space
Ans : Leaves precious memory free and is not a TSR
Ans : VI protects the hard disk, even if CMOS is changed
Ans : Visual indicator for a healthy computer

ADVANTAGE

GENERIC SCANNER

STOP VIRUS BEFORE DOS

VIRTUAL INDICATOR (IBVC)

CLEAN WITHOUT CLEAN DOS

GENERIC BOOT/PARTITION VIRUS CLEANER

CLEAN MULTIPARTITE/POLYMORPHIC VIRUSES

CLEAN FILE VIRUSES WITHOUT DESTROYING FILES

STOP VIRUS WHILE COPYING/OPENING OF ANY FILE

100 % INDIAN & ONLINE UPDATES/SUPPORT AVAILABLE

INSTANT PROTECTION AGAINST INFECTIONS FROM FLOPPIES

Protect Your Computer Intelligently

FEATURES	IAVT	RED ALERT	NASHOT
GENERIC B/P CLEANER	YES	NO	NO
GENERIC FILE SCANNER	YES	NO	NO
VIRTUAL INDICATOR (IBVC)	YES	NO	NO
CLEAN WITHOUT CLEAN DOS	YES	NO	NO
STOP VIRUS WHILE COPYING	YES	NO	NO
CLEAN FILE VIRUSES WITHOUT DESTROYING FILES	YES	NOT ALWAYS	NOT ALWAYS
THREE YEAR WARRANTY ON BOOT PATRTITION VIRUSES	YES	NO	NO
PRICE (In Rs.)	1888.00	3000.00	N/A

All names are property or copyright of their respective companies. The above comparison is between IAVT Ver 3.01, Red Alert Ver 4.0 & Nashot Ver 17.0

Partial list of IAVT users

Delhi Stock Exchange
HCL-Frontline Limited
Singapore Airlines
TELCO
TATA Chemicals
Department of Telecommunications
Escorts Heart Institute
IIT, Delhi & Bombay
Voltas Limited
Blue Star Limited
BPL-Sanyo Limited
World Bank
All India Radio
Airport Authority of India
NASSCOM
BARC, Bombay
OXFAM
TATA Export Limited
Ministry of Defence, Sena Bhawan
Nuclear Power Corporation
RITES
Llyod Steel Limited
Hero Cycles Limited
Siemens Limited
Tata Liebert Limited
UNICEF

ANNUAL INTELLIGENT ANTI-VIRUS CONTRACT & DATACARE

Now, even greater protection than IAVT
Yes, we at FGSL now offer professional protection for your computer against viruses and data losses around the year
Contact for Annual IAVC and DataCare contracts

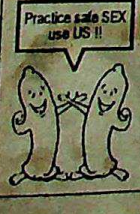
Complete protection against Boot/Partition viruses on Windows 95 machines

FIFTH™ G.E.N.E.R.A.T.I.O.N

Fifth Generation Software Limited

Corporate Office : 140, Zamrudpur, Nehru Mkt, Opp. LSR College, New Delhi - 48 Phone : 6210808, 6229805, 6452200 -2201 -2202 Fax
Regd. Off. : 5, Ashoka Park (Main), Rohtak Road, Delhi - 35. Ph : 5103299, 5458018, Mumbai : Raj Villa 2, Outpost Military Camp, Vakola, Santa Cruz (E), Mumbai - 43[illegible] Ph Fax
Ahmedabad : 27, Vijay Complex, Vasna, A'bad - 380007 Ph /Fax : 415770, Secunderabad : 95C, Siddamsetty Complex, Park Lane, S'bad - 500 003 Phone : 814816 814878 Fax : 8231662, 8231663, Delhi - [illegible]
NOW !! Also available at : HCL-Frontline Super Store : Madras - 8231662, 8231663, Delhi - Gem Electronics - [illegible]

Practice safe SEX use US !!



Amritsar : Computer Associates - 228769, Bangalore : Link Systems - 3350389, Namratha Electronic Centre - 6619116, Bhopal : I.D.E.A. - 552134, Mumbai : Jain Computer - 552134, Calcutta : Gripp Computer Services - 5341301, H.T.P. Systems - 8729989, Micro-Tech Enterprises - 5426728, Sainath Overseas - 4943585, Calcutta : Jain Computer - 3325760, Shivom Computer - 3325760, Lalani International - 260441, 260442, 264819, Delhi : Ansun Electronics - 6414613, Antriksh Computer - 3286633, BPB Publications - 3325760, Computer Professionals - 6449960, First Computers - 2415743, Lotus Reprographics - 6418046, Omniscent Computers - 5731185, P. K. Traders - 5550656, Shivom Computer - 5550656, Softman Computers - 6483376, Vikmans Peripherals - 6429547, Goa (Mapusa) : Spectrum Software & Services - 250405, Hyderabad : NetCom - 547618, Wisdom Marketing - 547618, Indore : M. K. Electronics - 435428, Jabalpur : The Computer Shoppe - 25216, Jaipur : MicroPlus Computers - 304800, Computer Jyoti - 514107, Jalandhar : Software Solutions - 514107, Lucknow : Rakshit Computers - 240895, Madras : Devraj Computers - 8525856, Moradabad : XL' Brain Computers - 317769, Orissa : Binary Information Systems - 317769, Patna : Shree Sati Computers - 659808, Surat : Nemji Services - (0261)-426484, Vapi : Dynamic Computers - (02638)-32645, Varanasi : Computer Shoppe - 32645, Vijaywada : Andhra Computer Services - 431707, Unics Computer enterprises - 68936, 75064, 75034

DEALERS/DISTRIBUTORS ENQUIRIES SOLICITED

CC-0. In Public [illegible]

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ber of other things you need ...o "tune up" the speed a bit, ...t isn't worth it, for you could ...up burning out your CPU by ...ting it.

...your easiest upgrade option ...386 is to add more memory. ...e apps, and especially Win- ...apps, will run faster. But ...ensure that you're using a ...cache, and also that there's ...external cache for your main ...ory inside your PC—at least ...8, preferably 128 kB. In ...y Windows apps, we've ...d a 386 with 16 MB almost ...ing the effective speed of ...s with 8 MB, especially when ...tasking. Finally, of course, ...could upgrade your ...erboard—watch for next ...'s PC Quest on an illus- ...ed feature on this.

...ery inkjets can print trans- ...encies, if their ink is rated for ...ally, such printers will pro- ...a near-straight paper path ...e stiffer transparencies, to ...d jamming. For example, ...the very low-cost DeskJet ...reviewed in this issue can ...on transparencies. If your ...can't, the option of course ...print on plain paper and ...copy onto the transpar-

...ou won't be able to directly ...all of your 1 MB of RAM— ...of that address space is ...ved for various devices in ...PC. But if you load HIMEM ...EMM386.EXE in CONFI- ...S (with "DEVICE" com- ...ds), and put a DOS=HIGH, ...you may be able to move ...of DOS and some of your ...ce drivers and TSRs (with ...EHIGH and LOADHIGH) ...your 640 kB of base RAM— ...g you a lot more base ...ory to run DOS apps in.

...ATTERY

...have an old XT with a ...on cell but no real time ...k. What is the purpose of ...button?

...there any other use of the archive file attribute, except as used by some DOS commands?

May I defrag or optimize my hard disk if I am using E-X?

Ashok Jain
Allahabad, UP

The button cell is either for a real-time clock or for CMOS RAM. XTs did not have CMOS RAM, so that's a real-time clock. You can't access it through the TIME command. There are usually utilities like TIMER.COM. A TIMER /i would let you set the time, and a TIMER /s in your AUTOEXEC would let the MS-DOS pick up the current time from the real-time clock. Look for such a utility.

The archive attribute is used in order to determine if a file was modified since the last backup. When a backup program has finished archiving the complete disk, it sets the archive attributes of the backed-up files off. When any of these files are modified, DOS automatically sets the archive bit on so that the next time you backup, only the modified files are backed-up. Other archival programs like FastBack Express also make use of this attribute.

You can also use this when you copy files to a floppy. Say you have a directory with 2 MB of files. If you do xcopy c:\mydir a: /m the process will copy each file and set the archive attribute off. Then you'd get a "disk full" message, so you'd put in your next floppy and repeat the command, with the same /m switch. XCOPY will now copy only those files whose archive attribute is not set—that is, the remaining files. Of course, a shell program like Norton Commander will do this more efficiently.

Users of E-X and other copy-protected software have reported problems when making low-level changes to the disk, including defrag. After the changes, the software can't find the copy protection information where it expected it. The way around is to mark the files, if you know them, as "unmovable" in Norton Speedisk, or as system/hidden/read-only when using a simpler utility like defrag, before the optimization. More intelligent software would detect and accept a defrag operation; the best software would not use copy protection at all.

BOOTING UP UNIX

✉ We have a 386DX with SCO-UNIX and DOS installed. When we boot, we get the message "SCO UNIX System V/386" and then "Boot" with a ": prompt". When we press the return key, UNIX boots up; if we hit "DOS", then DOS boots up. We want to know whether there is any utility in the UNIX software that makes this happen. If we have another OS like OS/2 in another partition, can we have this boot up by typing "OS/2"?

Pinakee Das
Cuttack, OR

What you see is the SCO boot manager asking you for what OS to load. OS/2 also comes with its own boot manager that can be used to determine what OS to boot from. If you install this, you will get the OS/2 boot-manager's prompt. Similarly, NT, Solaris/X86 and others would do the same.

PRINTER HICCUPS

✉ I have a 286 system and TVSE MSP 145. It can't print ASCII codes through Wordstar 4.0 and also cannot subscript and superscript text.

Vijay D Khatke
Osmanabad, MH

Check your printer's DIP switches (detailed in the manual)—is there a DIP switch that's set to "italics" instead of "extended ASCII"? Try printing extended characters from DOS or EDIT using the alt characters (for instance, alt-224 for the Greek "alpha").

You could also check the manual for the control codes for superscript and subscript and insert them manually into a text document (say in DOS' EDIT).

Finally, your problem may simply be the wrong printer driver for WordStar, though most Epson-compatible printers will work with most Epson printer drivers.

POWER CASE?

✉ Is PowerBuilder an OO CASE tool or simply an OO language? Is the language used in Borland's Delphi, Object Pascal, the same as Turbo Pascal 7.0? Please refer me some books on Windows programming (using Borland C++, Visual C++ etc).

Amit Bansal
Patiala, PB

PowerBuilder is an object-oriented SQL front-end development system for graphical, client-server database apps. It is "CASE" only to the extent that any development system is part of the software engineering or CASE life-cycle. For instance, an application generator in dBASE is a lower CASE tool of sorts. But it is not classified as a CASE tool—or a full-life cycle CASE product.

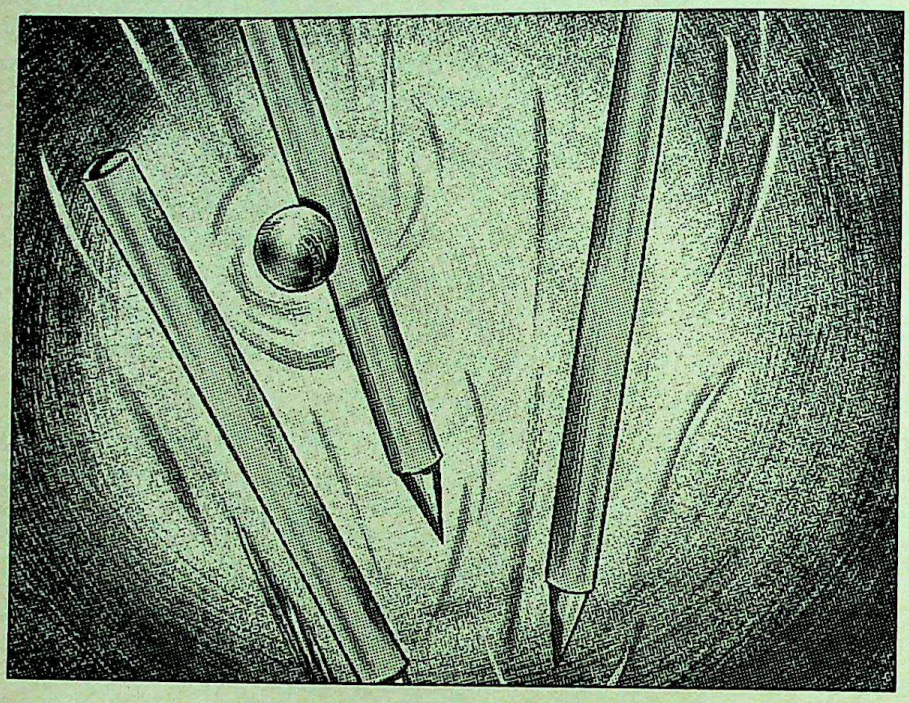
Object Pascal as implemented in Delphi is derived from, but a considerable enhancement over, the language in the Turbo Pascal system. For books on C++ programming, you can refer to Clean Coding In Borland C++ *or* Visual C++—A Developers' Guide *from BPB Publications, or, for a more basic introduction,* C++ For Dummies, OOPs for Dummies, *or* Advanced C++ for Dummies *from IDG books / Pustak Mahal.*

Balajt N with PKR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Apcom, India's largest technically qualified comput
products distributor, now brings you the Eiconca
Packetblaster.



It connects

- *a Standalone machine to a NetWa*
  LAN
- *a NetWare LAN to an IBM H*
  and
- *remote NetWare LANs together*

Further...

- It supports 2Mbps line speed
- Supports asynchronous/synchron
  lines
- It is the only card in the indust
  which earned "YES, NETWA
  TESTED AND APPROVED" label from Novell for
  three NetWare based WAN products viz.
- NETWARE CONNECT 2.0
- NETWARE FOR SAA 2.0
- MPR 3.0

Eiconcard Packetblaster is made available to y
through Apcom's nationwide distribution network. Do call us for more details on this and many more of Eicon products.

A clean sweep in WAN connectivity.

Eiconcard Packetblaster.
A comprehensive solution for any NetWare based WAN connectivity.

apcom
TECHNOLOGY DISTRIBUTION NETW
APCOM COMPUTERS LIMITED
8, Industrial Estate, Perungu
Madras - 600 0
Tel: 044-4925
Fax: 044-492

Apcom. Networked to be the be
In technology distribution and network

CONTRACT 22900/95-A

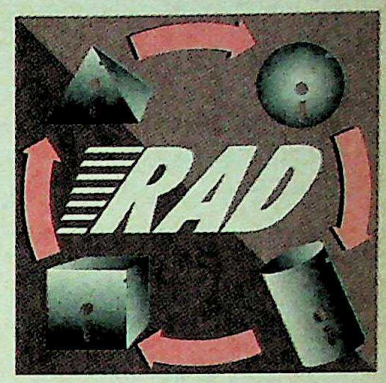
CABLETRON *complete networking solutions* **CISCO** *routers* **COMPEX** *networking* **EICON** *X.25/SNA/ISDN* **KALPANA**
MICROSOFT *software* **NETWORTH** *100 Mbps networks* **NORTEL** *structured cabling* **SEAGATE** *disk drives* **SPECIALIX** *UNIX*

Branch Offices: • **Ahmedabad:** Tel: 079-7412308 Fax: 079-7412308 • **Bangalore:** Tel: 080-5573211 Fax: 080-5562233 • **Bombay:** Tel: 022-
Fax: 022-6183546 • **Calcutta:** Tel: 033-748132 Fax: 033-747389 • **New Delhi:** Tel: 011-6481789 Fax: 011-6473669 • **Secunderabad:** Tel: 040-868077 Fax: 040-8

® All registered trademarks are the property of their respective

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

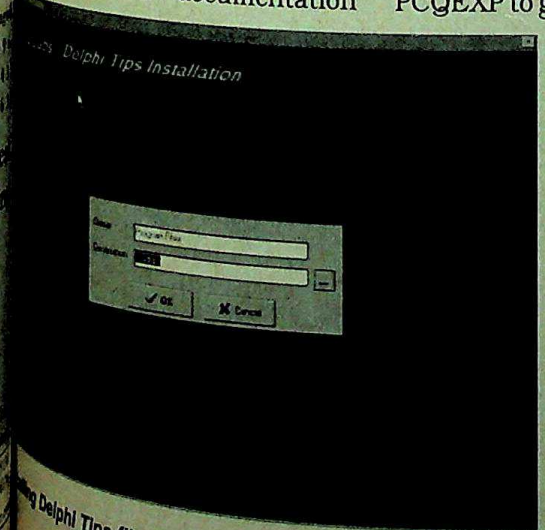


PCQ Labs Setup Component

The last of a three-part series on writing an install utility

To begin with (PCQ, Mar 96) we wrote a application PCQSETUP.EXE that could read instructions from an INI file and install your application files from distribution disks to the target machine. Lets recap the features of PCQSETUP. It can

1. Handle multiple groups of files, with each group going to a different directory on the target machine.
2. Create a Program Group and place within it program items that call your application(s).
3. For database applications based on the Borland Database Engine (BDE), it can create a BDE alias that your application may require on the target machine.
4. Display a readme / documentation file on completion of the install process.
5. Decompress files compressed with Microsoft's COMPRESS.EXE applications.



Installing Delphi Tips files in their own directory

The only shortcoming with PCQSETUP was that you had to write the INI file manually. An easy enough task for small applications with a limited number of files. However, for a large application with scores of files, the task of creating the distribution disks and creating an .INI file could prove daunting. So in our next episode of RAD (Apr 96) we wrote the PCQEXP to give you an easy visual interface to create an INI file for use with PCQSETUP.

What we plan to do this month is to write PCQSETUP, our install utility, as a Delphi component. As a component, every time you need to write an install application, you can drop the component on to a form, customize it to accommodate any special install requirements and have your install program ready within minutes. You can even develop the component further and distribute to others and make some money.

Now component creation is not a subject that we can pretend to teach through these columns. It's too vast and it is very technical. In this column we will only discuss how to write the setup utility as a component. You will be able to benefit from what follows only if you have gone through the Component Writer's Guide that ships with Delphi and have attempted creating simple components. Fortunately, the component that we will create is a relatively simple one and we will need to focus on a very narrow area of component creation.

If you aren't geared up for component writing, but are a Delphi programmer, you could still take advantage of this month's column by downloading the component from PCQ Online and making use of it. If you are not a Delphi programmer, I am afraid this episode of RAD will be of little use to you.

Advantages Of Writing PCQSETUP As A Component

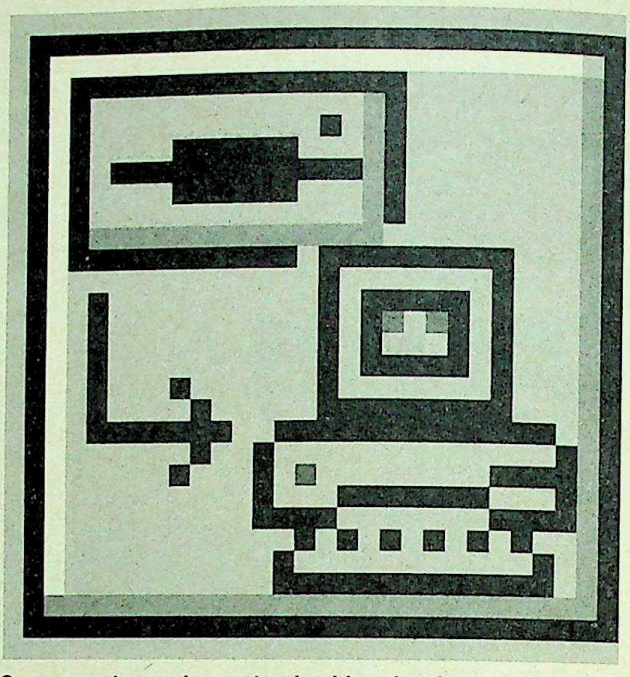
Applications distributed as executables are written for end users. Components, on the other hand, are written for developers. An application cannot be

CC-0. Prof. Satya Vrat Shastri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

customized, but a component can. It makes a lot of sense to write PCQSETUP as a component since it is a utility that targets developers with a need to distribute applications. Developers write applications that vary extensively in size and hue. It is unlikely that a standard install routine will meet all their requirements.

Currently, PCQSETUP does what it is designed to do and nothing more. (Nothing less either, we hope.) It provides just the core functionality common to most install routines. But these often need to perform additional tasks such as displaying an opening welcome screen, confirming that adequate diskspace is available, or unzipping files compressed with algorithms other than what PCQSETUP can handle. It does not make sense to add these features to PCQSETUP and in the process inflate its code size. Not all the features will be used in all install routines. However, as a developer you will want to retain the option to customize the install process to suite your special requirement.



Components can be customized by developers

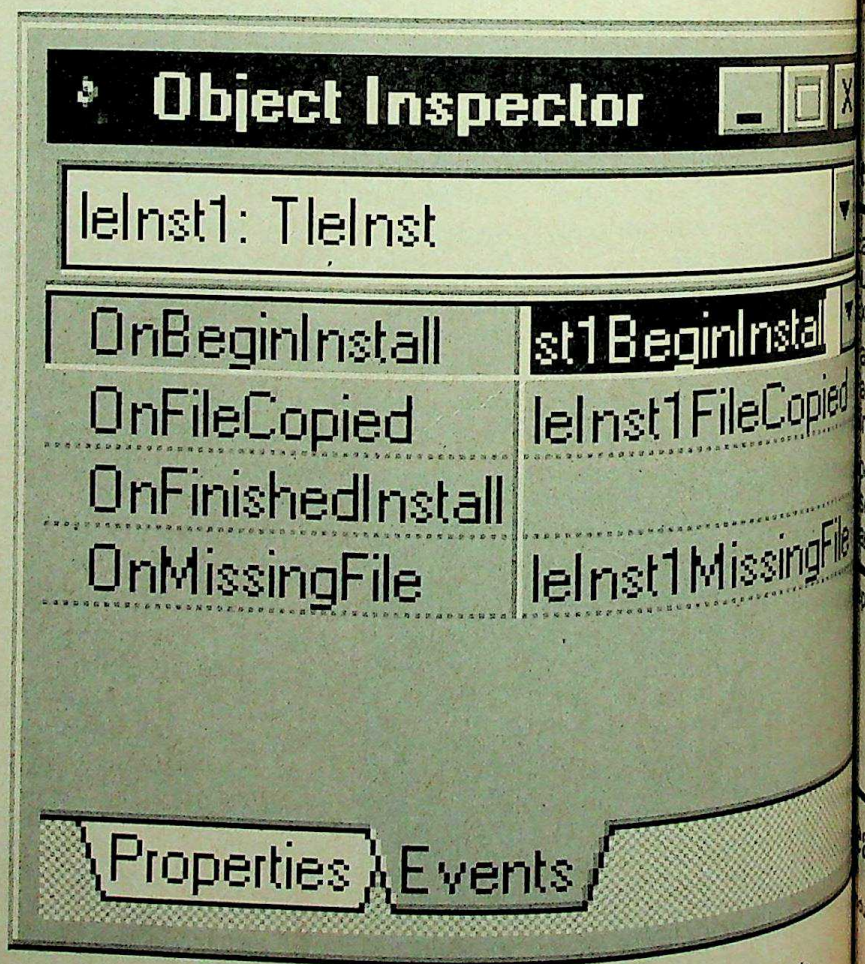
Before the advent of software components, it was not possible to customize any application unless you had its code. With components, even when you do not have access to the source code you can customize an application to do precisely what you want and the way you want it. This is possible because the component writer selectively exposes the internals of the application through properties and events. Properties are internal variables that the component 'publishes'. By publishing an internal variable, the component lets the user set its value at design time. The values that you assign to a component property is internally stored in a private field or variable of the component.

Properties, or 'published' variables, are distinct from public component variables. The public component variables are also accessible to the developer, but only at run time.

A component user can customize a component by either assigning values to, or changing the values of its properties. For example, the component that we will create will have a property called `IniFileName`. Since this is a property, the developer can specify the name of the .INI file that the setup program must read at design time. Contrast this with the PCQSETUP application, where the name of the .INI file is hard coded into the application. An alternative implementation, using a public variable, would have been to prompt the user for the name of the .INI file at run time. We won't seek you opinion on this, but suggest an elegant a solution that would

Events provide an important mechanism for customizing components. The application developer can customize the working of components by writing event handling code. An event serves as a mechanism that links an occurrence within the code of the component to the code written by the application developer. Events may be triggered by the some action on the part of the user. Such events are referred to as external events. For example, when the user clicks the mouse button on a component, it may trigger the OnClick event of that component. Events may also be triggered by code within the component, in which case they are referred to as internal events.

In the component that we are about to write we would be dealing only with internal events. For example, the component will trigger the event `OnFileCopy` after copying a file.



You can customize the working of components by writing event-handling code

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PROTECT YOUR SOFTWARE PRODUCTS

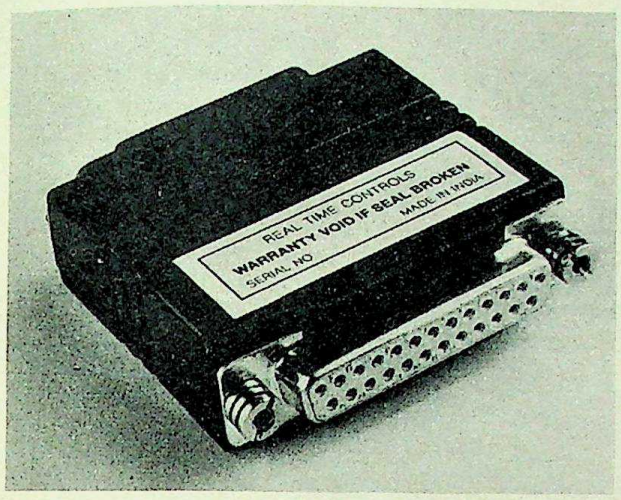
Hardware and software locks for software protection

upports

OS
indows
ovell Netware
inix
inux

os Extenders

harlap
ational
inker
auseway
d others



Compilers

Microsoft Visual C++
Borland C++
Watcom C++
Clipper
Foxpro
Visual Basic
MS Office Products

NEW
Hardware lock model ECP-7
Supports software renting
User programmable permanent memory
Facility to Monitor program execution count

eatures*

ach lock is unique and a software protected with one lock will not work with another.
utomatic installation of normal DOS Executables without need for source code
xtensive interface library support for all operating platforms
acility to upgrade software without recalling the device
acility to monitor number of program executions
ingle lock on a network supports multiple workstations
pecify the number of copies of software that can be run simultaneously on the network
er programmable permanent memory for customisation
ardware lock is transparent for normal printer operations

*epends on the protection device type and model

al Time Controls Pvt. Ltd.

9A, 8th Main Road,
VijayaNagar, Velachery
Madras - 42
Ph: 044-2351929, 2352929, 2353647
Fax: 044-2352929
Email: real.time@axcess.net.in

oducts and brand names mentioned are trademarks or registered trademarks of their respective holders

CHHAYA

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

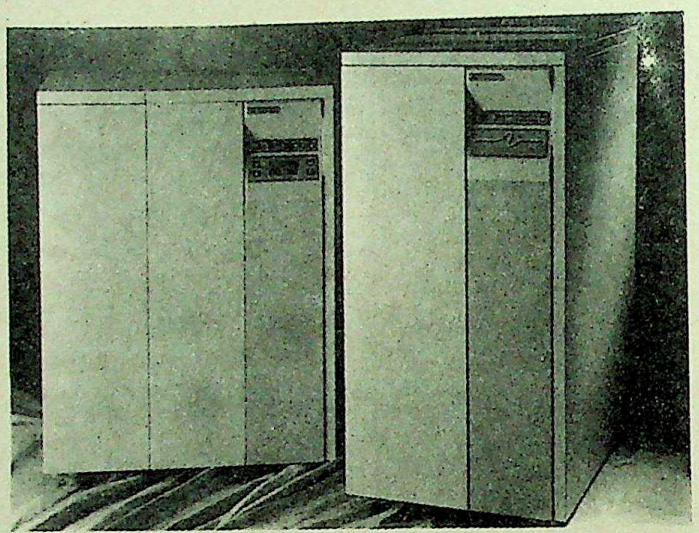
Digitized by Arya Samaj Foundation Chennai and eGangotri

UNINTERRUPTED POWER SOLUTIONS

Join hands with leaders

TATA Liebert

TATA Liebert Emerson UPS from SINEWAVE TECHNOLOGIES INT.



Sinewave Technologies International, having a team of experts with a satisfied installation of more than 3500 UPS, now brings to you the hottest selling UPS in the world-Emerson, brought to you by Tata Liebert in India. Emerson Electric, a fortune 500 company is the only UPS company in the 100 most admired co's of the world.

Tata Liebert, has the largest range of UPS Systems with a national network, providing support on all India basis.

CUSTOMER SATISFACTION IS OUR NO. 1 PRIORITY

SINEWAVE TECHNOLOGIES INTERNATIONAL
53, DS,
New Rajinder Nagar,
New Delhi-110060
Tel. : 5784692, 5762942
Fax : 91-11-5753200

POINTLINE

✂ COUPON

I am interested in purchasing Tata Liebert UPS please send ☐ Sales Executive ☐ Brochure.

Name _____ Designation _____

Company _____ Address _____

Tel. _____

Fax _____

THE POWER TO STAY ON

Digitized by Arya Samaj Foundation Chennai and eGangotri

target machine.

whenever an event occurs, the code
whether the components looks for the event
handler. The event handler is written by
the developer. If the component code
finds an event handler, it executes the
code within it before getting on with its
own. You can look upon events as meth-
ods in reverse. Methods represent com-
mands that developers can call
from the code that they write. An event
handler, on the other hand, is a block of
developer's code that the component code
calls in response to an internal or exter-
nal triggering.

The PCQSETUP Component

The setup component that we are
about to write is a non visual component
we will derive it from the TComponent
class of Delphi. It will have just one
property—IniFileName. The component
user will assign to it the name of the .INI
file that the setup application should
read instructions from. The .INI file, as
we have already discussed, can be cre-
ated either manually or by using PCQEXP.
To allow for customization the com-
ponent will have four events

OnBeginInstall
OnFileCopied
OnMissingFile
OnFinishedInstall

The OnBeginInstall event will occur
before the setup program starts reading
the setup .INI file. Typically an event for
this event will check on disk space avail-
ability, or display a copyright agreement.
The OnFileCopied event will occur every
time the setup program finishes copying
a file to the target machine. An event
handler for this event maybe used to
unzip/explode a file compressed with a
program other than COMPRESS.EXE.
The OnMissingFile event will occur any-
time the setup program does not find a
file that it is required to install. The
component has a built in default behav-
iour to handle this contingency—IT in-
forms users about the missing file and
asks them specify a new source directory
where the install files. An event handler will
allow you override the default handling.
Finally, the OnFinishedInstall event will
occur after the installation is completed.
After completion of installation you may
want to run the application that they have
just installed. You could write an event
handler for this event to do just that.

However, you would need to keep track of the directory to which the main application file was installed, since the user could have changed the target directory. For this you would also need to write an event handler for the OnCopyFile event that would store the directory to which the main application file was copied. This event handler receives the name of the file just copied and the directory to which it was copied.

Events—Getting Technical

We have seen that an event is a mechanism to link the code within a component to the code written by an application programmer. We will now see how this is done.

In Delphi, events are implemented in a manner similar to properties. In fact, events are properties too. An event property differs from a data property in one respect. The data properties, and the private variable that they represent, have a data type — an Integer or String. In the case of event properties the private variables that they publish are invariably method pointers. In other words rather than pointing to data these pointer point to code that the developer has written.

A developer can customize a component by changing the value of a data property. Similarly, a developer can also customize a component by write event handling code for event properties.

When you define an event you go through the following steps

1. Define the event handler type—This probably sounds a lot worse than it actually is. We said earlier that events are method pointers. Now a method call may involve passing parameters. The number of parameters and the parameter types could vary from method to method. Before we can declare a pointer to a method we need to define the type of method it points to.

2. Declare the event—Once you have defined the type of method your event points to you are ready to declare the event.

3. Trigger the event—You can trigger an event in response to a user input, or you can trigger it on state change. In our install component, all the events are triggered by state changes - Installation starts, File is copied etc.

4. Calling the event—Calls to the event handler need to be made from one central point in the component rather than from several places. The usual practice is to declare a virtual method in your component that calls the user's event handler and provides any default handling. If you do that, another developer can create a new component by inheriting from your component and change its default handling of an event by overriding the virtual method in your component.

Let's look at some code snippets. I am sure it will lighten things up and clear the theoretical cobwebs! First, we will see how we implement the IniFileName property. Here are the relevant portions from the class definition.

```
type
  TIeInst = class(TComponent)
  private
    .
    .
    .
    FIniFileName: String;
    procedure InstallFile(FileName,
DestName: TFileName);
    .
    .
    .
    protected
     .
     .
     .
    published
       property IniFileName: String
read FIniFileName write SetIniFileName;
      .
      .
      .
    end;
```

In the private section of the component class, TIeInst, we declare an object field FIniFileName of type String. In the published section we declare the property IniFileName of type String. The 'read FIniFileName' in the declaration specifies that to read the property value the component directly access the internal storage field. However, when you assign a value to the property a private method is used to write the value to the storage field. This mechanism enables the component to update its status.

A look at the implementation of the private method should illustrate this. Implementation

.
.
.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

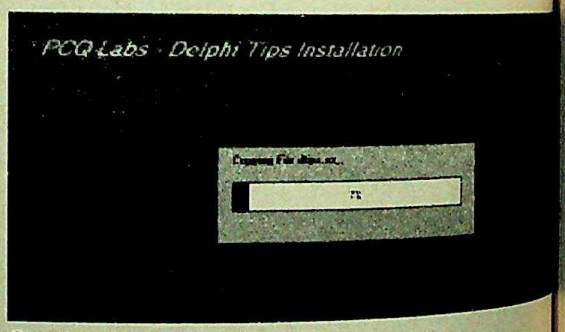

```
                              procedure
TleInst.SetIniFileName(FileName:
String);
   begin
     if FileName <> '' then
     begin
      if not FileExists(FileName) then
          raise Exception.Create('INI
file ' + FileName + ' not found!');
       if IniFile <> nil then
         IniFile.Free;
                  SourcePath    :=
ExtractFilePath(Application.ExeName);
                     IniFile    :=
TIniFile.Create(SourcePath + FileName);
     end;
     FIniFileName := FileName;
   end;
```

Before writing the new property value to the storage field, we check if the value has changed. If it has we ensure that the INI file actually exists. If it does, we free the existing TIniFile Object, extract the file path from the INI filename and create a new TIniFile object. Only after updating the component status do we assign the new name value to the storage field.

Implementing Events

We now study code snippets to implement event properties. We will first present the relevant parts of the interface section to let you get the complete picture, and then focus on parts of the code.

```
   type
    TBeginInstallEvent = procedure (var
Cancel: Boolean) of object;
      TMissingFileEvent = procedure(
FileName, Destination: TFileName; var
       Source: TFileName; var Cancel:
Boolean) of object;
      TFileCopiedEvent = procedure
(FileName, Destination: TFileName) of
object;

   type
    TleInst = class(TComponent)
    private
      .
      .
      .
                FOnBeginInstall:
TBeginInstallEvent;
     FOnFileCopied: TFileCopiedEvent;
                FOnMissingFile:
TMissingFileEvent;
     FOnFinishedInstall: TNotifyEvent;
      .
      .
      .
   protected
      procedure BeginInstall(var Can-
cel: Boolean); virtual;
      procedure MissingFile(FileName,
DestName: TFileName; var Source:
TFileName;
       var Cancel: Boolean); virtual;
      procedure FileCopied(FileName,
Destination: TFileName); virtual;
      procedure FinishedInstall; vir-
tual;
    public
      .
      .
      .
   published
      .
      .
      .
         property OnBeginInstall:
TBeginInstallEvent read FOnBeginInstall
write FOnBeginInstall;
         property OnMissingFile:
TMissingFileEvent read FOnMissingFile
write FOnMissingFile;
         property
OnFileCopied:
TFileCopiedEvent read
FOnFileCopied write
FOnFileCopied;
         property
OnFinishedInstall:
TNotifyEvent read
FOnFinishedInstall
write
FOnFinishedInstall;
    end;
```



Copying Delphi Tips files

Recall the steps in defining events. Step one is to define the event handler types

```
   type
    TBeginInstallEvent = procedure (var
Cancel: Boolean) of object;
      TMissingFileEvent = procedure(
FileName, Destination: TFileName; var
       Source: TFileName; var Cancel:
Boolean) of object;
      TFileCopiedEvent = procedure
(FileName, Destination: TFileName) of
object;
```

The event handler for the OnBeginInstall event receives a single Boolean parameter—Cancel of type var. We define a pointer to the method as TBeginInstallEvent. Since the parameter is of type var the user can change its value. The default event handling within the component examines the value of Cancel after executing the event handler. If the value has been set to false, the component aborts the installation by raising an exception. For example, if the event handler finds that the target diskspace is inadequate for the installation it can set the Cancel parameter to True.

We define event handler types for the other two events in a similar fashion. We will let you figure out the explanation. For the OnFinished we use the default event handler type which is of type TNotifyEvent. The event handler in this case just receives a pointer to the component that originates the event. (You may like to look up the on line help for more on the TNotifyEvent)

Moving on to step two for defining an event — declare the events as properties with corresponding storage fields. The event properties are declared as follows in the published part of the class definition

```
                property OnBeginInstall:
TBeginInstallEvent read FOnBeginInstall
write FOnBeginInstall;
                property OnMissingFile:
TMissingFileEvent read FOnMissingFile
write FOnMissingFile;
                property OnFileCopied:
TFileCopiedEvent read FOnFileCopied
FOnFileCopied;
                property OnFinishedInstall:
TNotifyEvent read FOnFinishedInstall
write FOnFinishedInstall;
```

Notice how we declare the event properties as of TBeginInstallEvent, TMissingFileEvent, etc. The properties have corresponding internal storage fields to store pointers. These are declared in the private section as

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

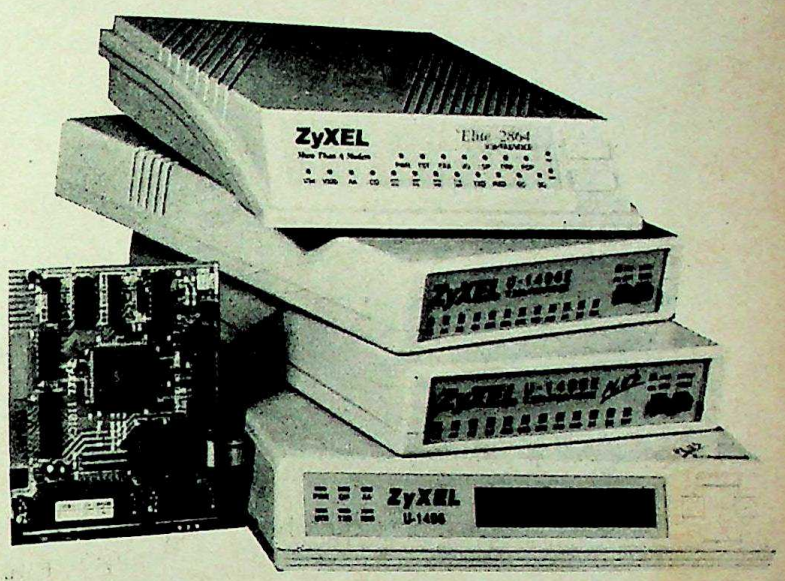
WHICH ZyXEL IS YOURS!

ost every true Data Communication
ssional trusts & swears by ZyXEL; The
e/Data/Fax Modems that connect and
where every other Modem has failed.

EL, the Datacom Professionals choice is
vailable in India in a wide range of models
14.4 kbps to 28.8 kbps.

up the Model/s, best suited to you and
very pleasent surprise - that ZyXEL data
unication can be so fast, efficient reliable
ost effective.

is ZyXEL reliability.



Another pleasent Surprise! We offer all India connectivity in a matter of Days.

Just Fax us your All-India requirement, including addresses of locations to be connected throughout the country.

Team ZyXEL is ready, waiting and wants you to say

This is ZyXEL Service.

ZyXEL

OICE/DATA/FAX

MODEMS

ITH CELLULAR SUPPORT

EDPA

EDP AIDS PVT LTD

B-32, Lajpat Nagar-2
New Delhi-110 024
Phones (11) : 683 3192, 684 6299, 684 6793,
Fax: (11) : 684 6299
E-Mail (Sprint Mail) : edp.aids/edpa
X-400 : (C:IN,A:VSNL,P:SPRINTRPG,
O: EDPA, FN:EDP,SN:AIDS)
Internet : edp.aids@edpa.sprintrpg.sprint.com

* Associates: Xon Communications Pvt. Ltd.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri


```
                FOnBeginInstall:
TBeginInstallEvent;
      FOnFileCopied: TFileCopiedEvent;
                FOnMissingFile:
TMissingFileEvent;
     FOnFinishedInstall: TNotifyEvent;
```

Step three of defining an event is to setup a mechanism to trigger the event. We centralize calls to the event handlers through virtual methods defined in the protected part of the class definition as follows

```
      procedure BeginInstall(var Can-
cel: Boolean); virtual;
       procedure MissingFile(FileName,
DestName: TFileName; var Source:
TFileName;
        var Cancel: Boolean); virtual;
       procedure FileCopied(FileName,
Destination: TFileName); virtual;
      procedure FinishedInstall; vir-
tual;
```

Wherever in the code we need to trigger an event we place a call to the virtual method corresponding to the event. This code snippet from the Execute method of the component illustrates this

```
  procedure TIeInst.Execute;
  var
    Group: TGroup;
    I, J: Integer;
    DestDir: TFileName;
    Cancel: Boolean;
  begin
    try
      {The installation starts}
      Cancel := False;
      BeginInstall(Cancel);
      TotFiles := 0;
      FileCount := 0;
      IniFile.ReadSection(PgmSection,
Groups);
      .
      .
      .
```

Before, the component reads the INI file, it triggers the OnBeginInstall event with a call the BeginInstall method. The call is made with the Cancel parameter set to False.

The final step in defining events is to setup the call to the event handler. The BeginInstall method performs the task of looking for, and where assigned, executing the event handling code. Have a look at its code.

```
  procedure TIeInst.BeginInstall(var
Cancel: Boolean);
  begin
    if Assigned(FOnBeginInstall) then
    begin
      FOnBeginInstall(Cancel);
      if Cancel then
                              raise
Exception.Create(UserCancel);
    end;
  end;
```

The code checks to see if an event handler has been assigned to the OnBeginInstall event. If it has, it calls the assigned event handler with the Cancel parameter set to False. After executing the event handler it examines the value of the Cancel parameter. If it has been set to False the default handling is to raise an exception.

We will now see how the other three events are triggered and called.

OnMissingFile and OnFileCopied Events

The OnMissingFile and OnFileCopied events are triggered in the InstallFile method of the component. Here is the code for the InstallFile method.

```
  procedure TIeInst.InstallFile-
(FileName, DestName: TFileName);
  var
    SrcFile : Integer;
    DestFile : Integer;
    RetCode : Longint;
    OpenFileBuf   : TOFStruct;
    SrcFileName,
    DestFileName : array[ 0..255 ] of
Char;
    Cancel: Boolean;
  begin
    if not FileExists(SourcePath +
FileName) then
    begin
      {We don't want the program going
into the weeds with no stack space!!}
      if FailedCopy > 2 then
                              raise
Exception.Create(FileReadError +
FileName);
      Cancel := False;
      MissingFile(FileName, DestName,
SourcePath, Cancel);
      Exit;
    end;
    StrPCopy( SrcFileName, Source
+ FileName );
    if GetExpandedName(SrcFileName,
DestFileName) < 0 then
      StrPCopy(DestFileName, DestDir
+ '\' + FileName)
    else
      StrPCopy(DestFileName, DestDir
+                '\'
ExtractFileName(StrPas(DestFileName)));
    SrcFile := LZOpenFile( SrcFileName,
OpenFileBuf, of_Read );
    try
      DestFile := LZOpenFile(
DestFileName, OpenFileBuf, of_Create );
      try
        RetCode := LZCopy( SrcFile,
DestFile );
        case RetCode of
          LZERROR_UNKNOWNALG:
          raise Exception.Create('The
source file was compressed with an
unknown algorithm');
          LZERROR_WRITE:
          raise Exception.Create('The
destination drive is full!');
          else if RetCode < 0 then
Exception.Create('Could not copy file');
        end;
      finally
        LZClose(DestFile);
      end;
    finally
      LZClose(SrcFile);
    end;
    FileCopied(FileName, DestDir);
  end;
```

The OnMissingFile event uses a TMissingFileEvent type and takes the following parameters

FileName - The name of the file to be installed
DestName - The target directory
SourcePath - The source directory for the file
Cancel - A boolean

If you go back to the declaration of TMissingFile event you will notice that the source and cancel parameters are of type var. The event handler can thus allow the user to either point to a different source directory or cancel the installation. Here is the code for the MissingFile event

```
TIeInst.MissingFile(FileName,
```

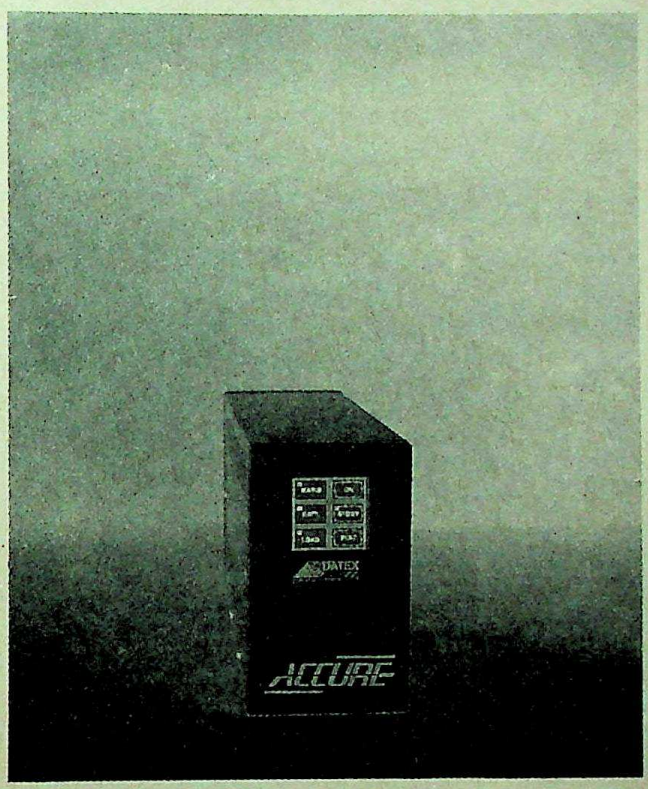
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WE REGRET NOT GETTING ANY WESTERN TECHNOLOGY INTO THE COUNTRY.

No western country we know, has DESU.

Power breakdowns is one thing, power fluctuations, quite another. At Datex, we understand that your sensitive machines need to be saved from fluctuations. Thus, we designed the **Accure** range of UPS, which works under severe Indian power conditions. And withstand extreme power fluctuations - as much as between 150V to 270V.



Accure:

- works at voltages as low as 150 volts;
- has less than 2 millisecond switchover time;
- works under frequent voltage fluctuations;
- gives you the options of larger back-ups;
- comes with a 2-year warranty.

All the above features have been tested by IIT, Delhi, under stringent conditions. It is no wonder then, that ICI, DCM-Daewoo, EIL, Nokia & a host of other companies trust **Accure**.

All this is because we combine the best technologies to suit Indian conditions. And we go the Indian way.

For more thought-provoking information, call Someer or Pawan at 462 1931 or 460 2457. Or contact them at the address below.

ACCURE UPS

the high performance line-interactive UPS

available in ranges from 200 VA to 2000 VA

corporate communications DT/2/96

DATEX

Datex Electronics Pvt Ltd

T-1512/1 Bhism Pitamah Marg, Opp. Sachdeva P T College, Defence Colony, New Delhi - 110 003. Fax: 462 1931.
● Bangalore ● Calicut ● Cochin ● Coimbatore ● Trivandrum ● Dehradun.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

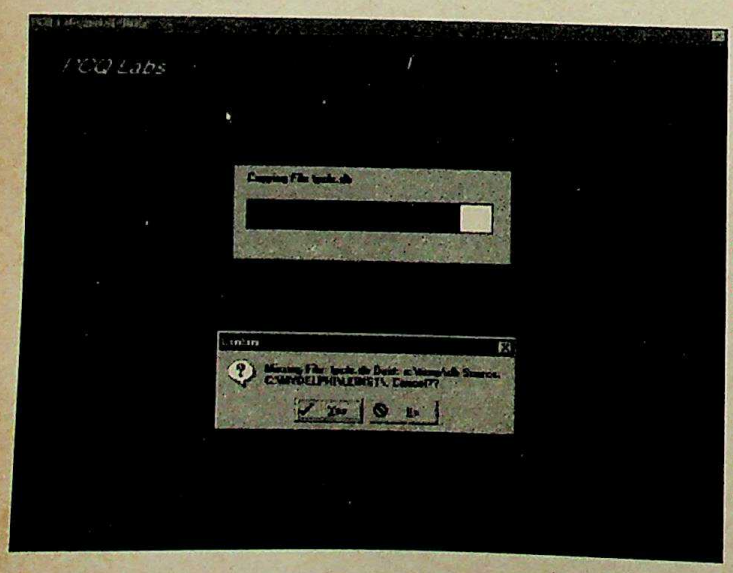
```
TFileName; var Source: TFileName;
     var Cancel: Boolean);
   var
     DiskNo: LongInt;
   begin
     Inc(FailedCopy);
      {Check for planned disk changes
here}
    DiskNo := IniFile.ReadInteger('Disk
Change', FileName, 0);
     if DiskNo <> 0 then
     begin
      if not InputQuery('Setup requires
Disk #' + IntToStr(DiskNo), 'SourcePath',
Source) then
                                raise
Exception.Create(UserCancel);
       if Copy(Source, Length(Source),
1) <> '\' then
         Source := Source + '\';
       InstallFile(FileName, DestName);
       Exit;
     end ;
     {No disk change was planned here}
     if Assigned(FOnMissingFile) then
     begin
          FOnMissingFile(FileName,
DestName, Source, Cancel);
       if not Cancel then
        InstallFile(FileName, DestName)
       else
                                raise
Exception.Create(UserCancel);
     end
    else if InputQuery('File ' + Source
+ FileName + ' is missing. Retry?',
'Source',
        Source) then
       begin
        if Copy(Source, Length(Source),
1) <> '\' then
           Source := Source + '\';
              InstallFile(FileName,
DestName);
       end
     else
                                raise
Exception.Create(FileReadError +
FileName);
   end;
```

Notice how the MissingFile method calls the install file method again if the user says — Retry. This nesting can get chancy and easily blow your stack. We keep track of the number of retries with the Inc(FailedCopy) part of the code. After two bad retries the InstallFile method raises an exception, nevertheless.

Let us now look at the code for the FileCopied method.

```
                                procedure
TleInst.FileCopied(FileName, Destina-
tion: TFileName);
   begin
     if Assigned(FOnFileCopied) then
      FOnFileCopied(FileName, Destina-
tion);
   end;
```

The event handler for this event is called with the name of the file that has just been installed and the directory in which it has been installed. This lets the developer write code in the event handler to say unzip the file if it has been compressed using an algorithm that the install program cannot handle.



The setup component executes the event handler for the OnMissingFile event. It displays the name of the file that is missing and its intended destination

The OnFinishedInstall Event

The OnFinished-Install event is triggered with this call in the Execute method of the component.

```
                                procedure
TleInst.Execute;
   var
     .
     .
   begin
     .
     .
     .
   {Finished copying files. Set up
gram group}
        CreatePgmGroup
   (IniFile);
        Wait(500);
        CreateAlias;
        FinishedInstall;
        ViewDoc;
   .
   .
   .
   end;
```

The virtual method that make
actual call is also straightforward

```
   procedure TleInst.Finished
   begin
      if Assigned(FOnFinished
then
        FOnFinishedInstall(Self);
   end;
```

Conclusion

I am afraid we have space for just
much and no more. We have
managed to focus on creating
components. We haven't even
for an overview of component
As mentioned at the start, the
source code for the component
able for download from the DEV
PCQ Online as STUPCOMP.ZIP.
you who do not have access to
Online need not despair – you
able to get the complete source
the Summer 96 CD-ROM to be
uted free along with copies of the
issue of *PC Quest*.

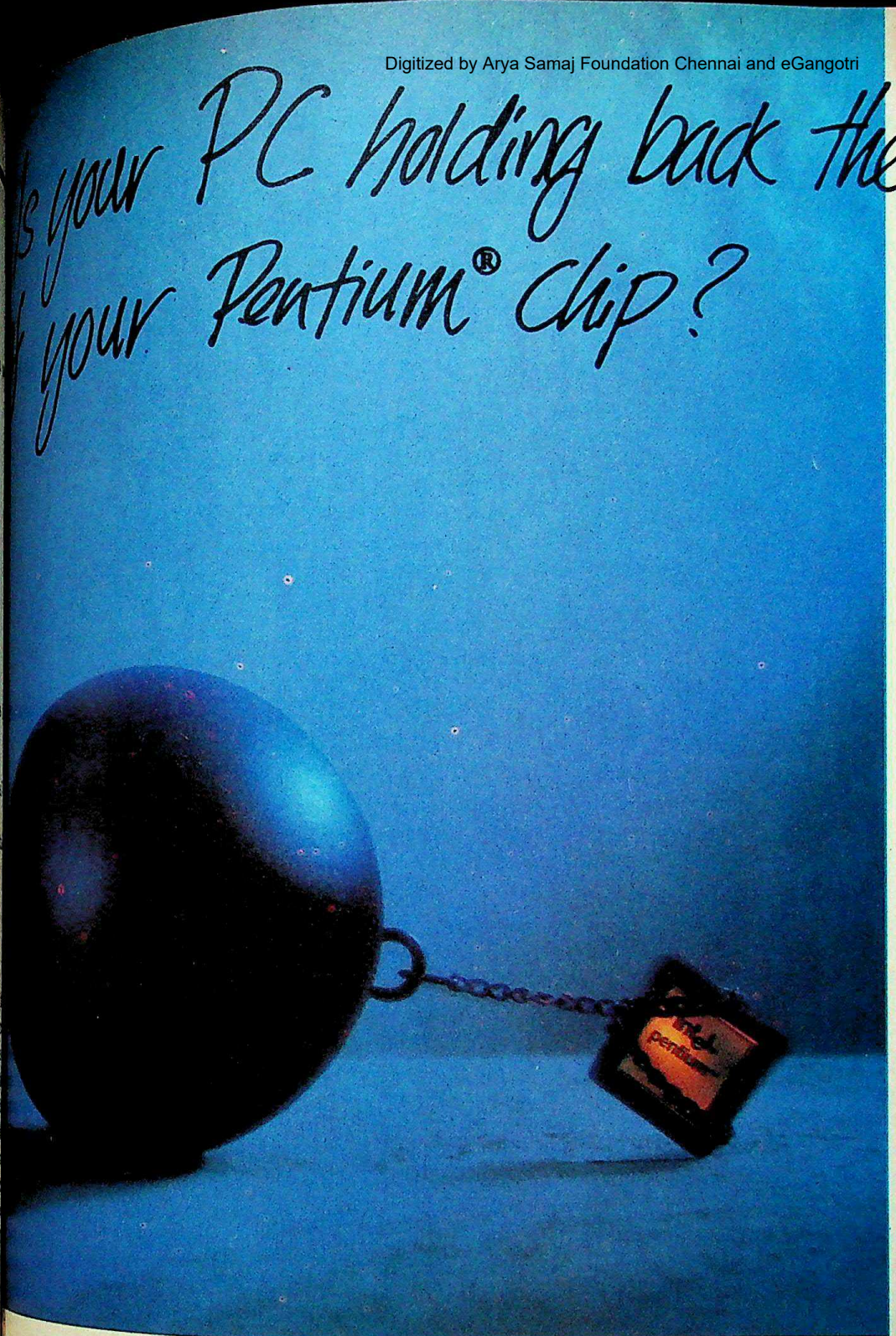
With this episode we conclud
three part series in which we
ated a suite of applications to re
of your installation headaches.
you have enjoyed the series and
useful. We would love to hear from
either case. The feedback will
better tune and focus the forth
episodes.

*VK Thakur is a PC Quest Contributing
and a Delhi-based database and
consultant. You can reach
kuku.thak@ancast.
as THAK on PCQ*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Is your PC holding back the Power of your Pentium® chip?



*HP Vectra VE-2 5/75 Intel Pentium® Processor 75-Mhz, 8MB EDO RAM/640MB, HP SVGA color monitor, Dashboard 2.2, DMI ready, keyboard power-on capability, 4x4 upgradable system design, 3 year comprehensive warranty (1 year on-site). Rs. 98,900. **

PC companies still haven't got around to ing the design of their PCs with the power of the Pentium® processor. HP is exception.

ew HP Vectra PCs are designed he Pentium® processor to run at ll potential. So they come with dset Triton chipset and fastest RAM in the market. With an of Synchronous Pipeline Cache outperforms the competition. The faster, so is the RAM and, to top it all, these new PCs are even fitted with hard drives so fast that they're unmatched anywhere. The end result is the speed that's so essential for 32-bit performance and graphics.

So don't be held back. Unleash the full power of the Pentium® processor. Talk to your HPI dealer today. Or call **HP FIRST at (011) 6226420** from your fax machine or touch-tone telephone, and request document ID number 6352. Or come and visit Hewlett-Packard on the Web at http://www.hp.com:80/gpcd/index.html.

HEWLETT PACKARD

lett-Packard India Ltd., Paharpur Business Centre, 21 Nehru Place, New Delhi-110 019. Tel : 6472311, 6472328-30.
ed Dealers : • CMS Computers Ltd., Bangalore : Tel : 5586790. Calcutta : Tel : 2408949. Delhi : Tel : 6912036. Hyderabad : Tel : 848336. Madras : Tel : 4990829.
: Tel : 2851580. • **Electronics Corporation of India Ltd., Computer Group,** Bangalore : Tel : 2267082. Calcutta : Tel : 22429181 Delhi : Tel : 608225. Hyderabad : Tel : 620483.
: Tel : 4349620. Mumbai: Tel : 4229074. • **Godrej Pacific Technology Ltd.,** Bangalore : Tel : 2216487. Calcutta : Tel : 3596111. Delhi : Tel : 6830690. Hyderabad : Tel : 201876.
: Tel : 6257331. Mumbai : Tel : 2049663. • **HCL Hewlett - Packard Ltd.,** Bangalore : Tel : 5584091. Calcutta : Tel : 2476120. Delhi : Tel : 6444293. Hyderabad : Tel : 814525.
: Tel : 8276242. Mumbai : Tel : 2626984. • **Zenith Computers Ltd.,** Bangalore : Tel : 2264999. Calcutta : Tel : 4753872. Delhi : Tel : 6841147. Madras : Tel : 4349661.
: Tel : 8377300.Secunderabad : Tel : 812494.

Intel Inside, Pentium processor logos and Pentium are registered trademarks of Intel Corporation. ** Estimated street price. Local taxes and levies extra.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MEDICINE Internet

Useful health sites for women—and medical professionals

Women's health issues are unique to them and need a special focus. This is something they do indeed receive on the Internet.

There are a large number of sites on women's health matters, and these are informative, friendly pages meant primarily to be directly useful to women although these sites are often equally useful to the medical professional concerned with women's problems. The more frequently found women's sites on the web are on obstetrics and gynecology, breast cancer, diabetes in women, reproductive health and pregnancy, heart disease, family health, childrens' health issues, hotline and crisis sites, and Internet resource guides.

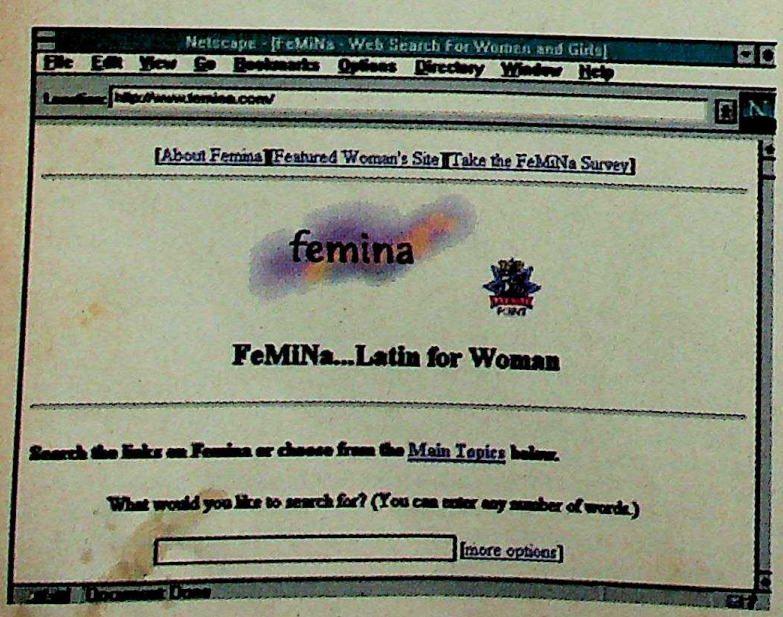
The search engines quickly lead to sites that contain links or maintain resrource lists. At Yahoo these are categorized into links related to **Breast Cancer, Endometriosis Forum, Menstruation, Obstetrics and Gynecology, Osteoporosis and Reproductive Health.** There is also an index and assorted links—many of them very interesting.

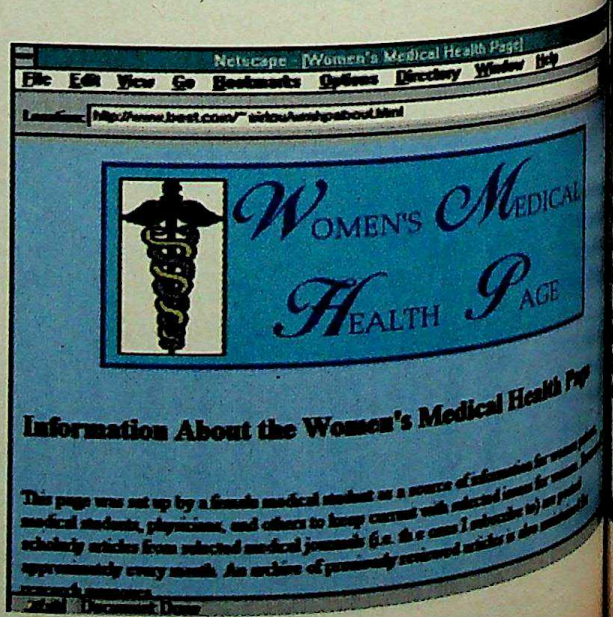
There is the **Ask A Woman Doctor** site where questions are answered online, **WomenSpace,** where women—young and old—can talk about relationships, sexuality, growing up and health. There is also a site for **Women's Health Articles** where you can read short articles on a variety of women's health matters, **SPOT,** which educates women about the dangers of synthetic tampon use, gives a tampon chart and has lots of articles on related topics.

In a lighter vein, there is the **Health Girl** site for cybersurfing girls to read hot gossip, get tips on beauty and health and fitness. There are other useful links at Yahoo to women's health centres and watch sites and an electronic directory for academic and community workers interested in women's health..

Other search engines also offer useful links. But there are special ... engines for women's issues ... FeMiNa at http://www.femi... which is a top five rated search ... for all kinds of women's matters ... shopping to feminism. The Health ... **Wellbeing** index at this site ... really comprehensive list of links ... can link to sites on **AIDS, Pregn... Breast Cancer, the Online Repro... tive Health Library, the Assault ... vention Page, Avon's Breast Ca... Awareness page,** sites with inform... on abuse and trauma, **Gynecology ... Maternal** sites, information on ... struation and menopause, hor... problems, the PMS page, sites on ... wifery and nursing, and an index of ... related information. FeMiNa is a ... home base from which to explore w... issues.

There are many other sites to ... women's health sites. At MedWe... http://www.cc.emory/edu/... medweb.gynecology.html, links ...





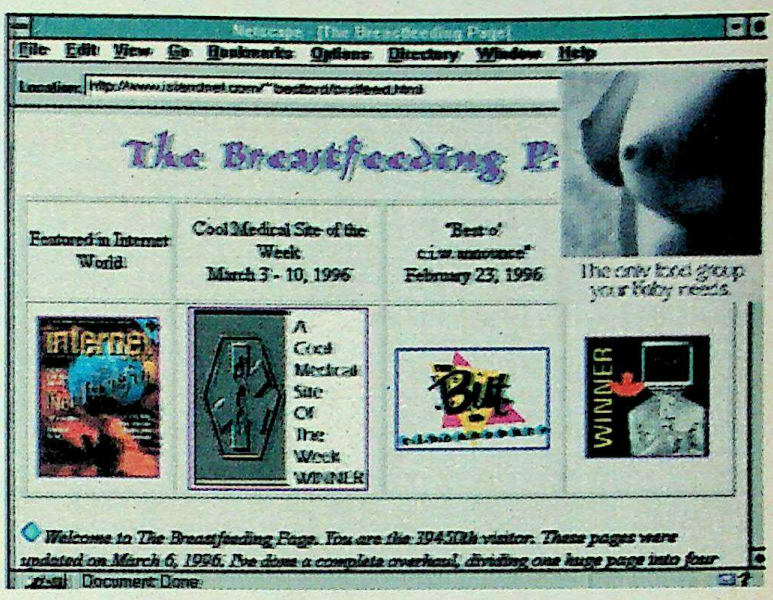
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ogised under guides, news, news-...ers and journals, software, sites, bib-...graphies, documents, handbooks and ...nology. At http://www.siumed.edu//...link.html you will find a Hardin ...Directory—lists of links and re-...ces on Obstetrics and Gynecology, ...st Cancer and some general ...men's health sites.

The Women's Medical Health Page at ...//www.best.com//~sirlow//wmhp.html is ...ded to be a source of information on ...nt medical issues and recent publi-...ions concerned with or having an ...act on women's health. This site is ...h both medical professionals and the ...person seriously interested in ...men's health issues. It was set up by ...ale medical student as a source of ...rmation for women patients, medi-...student, physicians, and others to ...p current with selected issues for ...men. Here, there are news report-style ...les selected and reviewed every ...th. There are current topic articles ...e developments on the Osteoporosis ..., the role of Aspirin in certain kinds ...cer, the treatment of high choles-...in women, etc. Previous articles are ...ived. There is a General Medical ...rmation Page and an Abortion Infor-...tion Page at this site.

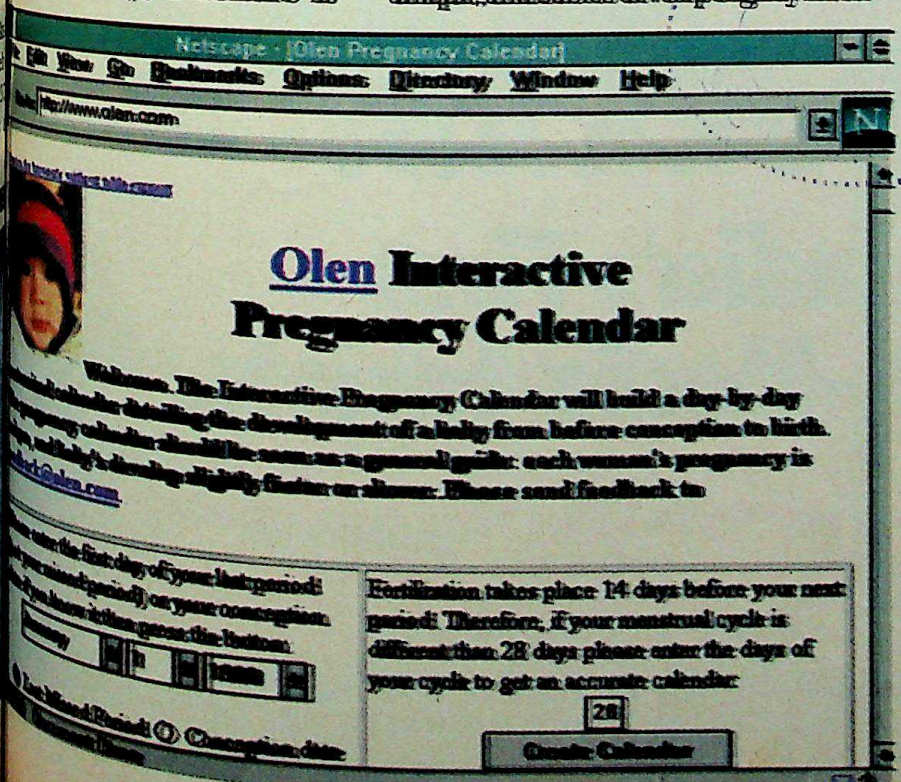
...site announced by Bill Gates and ...ed Magazine is the Women's Com-...e Health Book at http://www.-...thrive.com/women//, a women's fo-rum with health resources by women physicians and health professionals for women. Although this site is fairly commercial, with gifts, books and products sold online, you can consult a woman doctor anonymously. Some questions and answers are archived here.



A thoroughly awarded site is the Breastfeeding Page at http://www.islandnet.com/~bedford/brstfeed.html. There is breastfeeding information of all kinds at this site, from tips on how to get started, to common problems to issues such as parental attachment, breastfeeding and feminism, and several links to other sites on the subject. The site is a comprehensive one.

Women can maintain an interactive pregnancy calendar at http://www.olen.com, building up a day by day customized calendar detailing the development of a baby from before conception to birth.

The pregnancy calendar is a general guide, since each woman's pregnancy is unique, and babies develop slightly faster or slower.



There are some newsletter sites such as the Health and Welfare page at http://www.herspace.com/herspace/3rd/Health.html. This is a chatty, friendly newsletter with a female heart health emphasis by the author of The Women's Health Heart Book. Common sense info mixes with sharp analyses of health policies and practices that often ignore heart disease in women until it's too late. The Women's Health Hotline Home Page at http://www.soft-design.com/softinfo/womens-health.html is a newsletter that provides the media with information on women's health.

Some sites, you will discover, are online but have information available only on request or payment. The Women's Health Care Centre at http://knet.flemingc.on.ca/Web/IPs/HealthInfo/WHCC.html is an example. It is online from the Petersborough Civic Hospital at Ontario, but information is mostly available by calling the Centre. You will also find that some of the sites are particularly American in flavor and have limited use for Indian women because they feature centers or services available in the US.

There is, of course, plenty of medical information on women at general medical and hospital network and university sites and news reports at news sites such as the Your Health Daily site. The websites featured here—and they only scratch the surface—are from among the more laywoman friendly sites.

Mala Bhargava is a freelance writer and a former psychologist at AIIMS, Delhi. She's mala@pobox.com on the Internet, and MALA on PCQ Online

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HURRAH!

India's First Multi-Media Inkjets.

Now Print On :. Plain Paper . Coated Paper . Transparencies . T-Shirts . Back Print Films . A4 Size Fabric

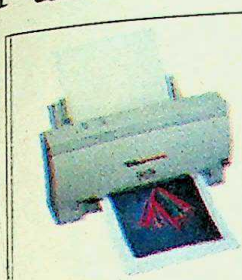
HEAD OFFICE : Bangalore (080): K.Vaitheeswaran/N.Vinod Tel: 2270359, 2210849 Fax: 2270878. Mathur/Haresh Bharia Tel: 6564105, 6564092 Fax: 6425158. **Bangalore** (080): V.Sriram/Vinny Thomas Tel: 5744729, (0265): Pankaj Maniar Tel: 320693, 340427 Fax: 331439. **Bhopal** (0755): A.K.Minji Tel: 568867, Tel: 2426591, 2428489 Fax: 2425910 **Cochin** (0484): Minal Menon Tel: 311338, 312379 Fax: 317226.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

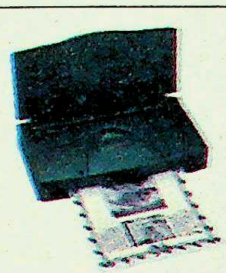
Digitized by Arya Samaj Foundation Chennai and eGangotri

CELEBRATE, Corporates. Introducing Wipro GeniusWriter. Desktop & portable inkjet printers that allow you to print a variety of new things, on a variety of new media. In vibrant colour or arresting monochrome. Affordably.

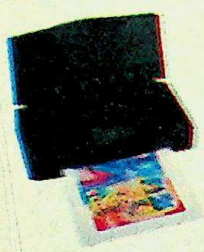
Now you can print immaculate letters, classy documents or personal greeting cards, on plain paper or coated paper. Transfers, using inkjet print films. Wacky T-shirts, using T-shirt transfers. Handkerchiefs with your corporate logo, on A4 size fabric. Transparencies that are very persuasive. And more, depending on your need and imagination.



IJC-310
Desktop Colour Inkjet Printer
Rs. 11,900*



IJ-40
Portable Inkjet Printer
Rs. 15,900*



IJC-80
Portable Colour Inkjet Printer
Rs. 24,900*

IJC-5100
Desktop Colour Inkjet Printer
Rs. 23,900*

Wipro GeniusWriter. Manufactured in Japan to stringent international standards and brought to you by Wipro, India's most trusted name in Information Technology. And available with a unique swap offer. Celebrate. With a Wipro GeniusWriter.

3 Year Warranty

INTRODUCING

WIPRO GeniusWriter

Inkjet Printers

* Maximum retail price. All taxes and levies extra.

WIPRO PERIPHERALS

Better People. Better Solutions.

(022): Chandra Sekhar Tel: 470144, 470146 Fax: 4490886. Delhi (011): Prashant Kulkarni/Dhirendra Khurana Tel: 6468425, 6214978 Fax: 646135. Hyderabad (040): Sanjay Dheroi Tel: 8105645, 8451196 Fax: 8490236. Jaipur (0141): S.Haroon Tel: 380104, 382306 Fax: 381029. (022): Sanjay Sangar Tel: 218006, 2178618 Fax: 2125559. Madras (044): S.Natarajj Krishnan Tel: 4988084, 4995294 Fax: 4997067. (022): G.Jayant Tel: 6323587, 6330949 Fax: 6329588, 6323695.

PENTAGON 393R

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Total Protection

SAFEPOWER COMMANDO entry level 280 VA & 425 VA UPSs are upgradable to 650 VA to accomodate your enhanced power needs. And this, by paying only the differential in the prevailing List Prices of the models ! SAFEPOWER COMMANDO is a LINE INTERACTIVE RANGE and comes in four ratings: 280 VA, 425 VA, 650 VA and 800VA. **SAFEPOWER INTELLIGENT** is an off-line range and comes in 500VA, 1000VA, 1400VA ratings. **SAFEPOWER SUNLINE** with its sleek looks is line-interactive and comes in 625 VA rating.

The entire SAFEPOWER range comes loaded with features • 150 V – 275 V input voltage range • Long inbuilt battery back up • Power-fail warning & automatic shutdown with Safeware Lite (optional) • Competent service team to provide the full level of the pre-announced service options.

SAFEPOWER IS ALSO AVAILABLE ACROSS ALL COUNTERS OF HCL FRONTLINE LTD.

AJMER : 423453 / 423542 ALLAHABAD : 608974, 600301 AMRITSAR : 548392 BHOPAL : 553185 CALCUTTA : 724661
CALICUT : 704171 CHANDIGARH : 706175 CUTTACK : 614292 DEHRADUN : 657119 DHANBAD : 302147 GHAZIABAD : 2
GURGAON : 329101 GWALIOR : 322911 INDORE : 430194 JAIPUR : 601953, 565466 JALLANDHAR : 21
JAMSHEDPUR : 426685 JODHPUR : 37586, 32585 KANPUR : 214039, 296302 KOTA : 421247 LUCKNOW : 21
LUDHIANA : 456891 MEERUT : 540874, 540894, 642012 PATNA : 685692 RAIPUR : 24567 RANCHI : 20536 SONEPA

RADIANT POWER SYSTEMS PRIVATE LIMITED

84, Khijrabad, New Friends Colony, New Delhi - 110065 Ph.: 6835523, 6913987, 6818906, 6911566 Fax: 6818

All logos / trademarks appearing above are the property of their respective owners.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

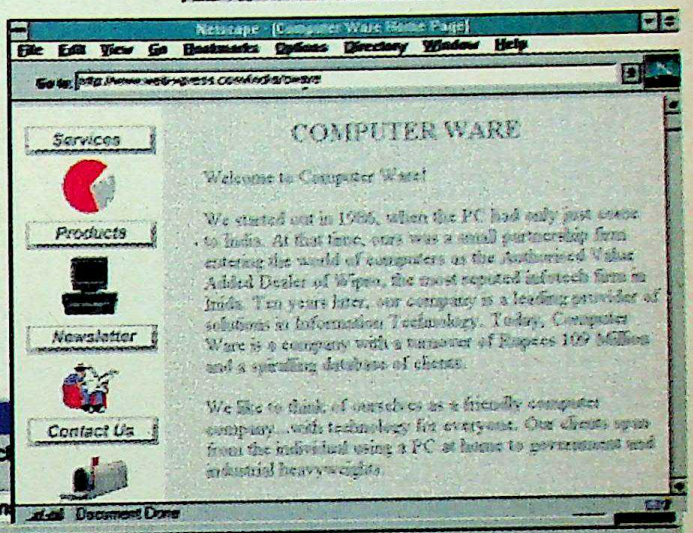
INDIA Internet

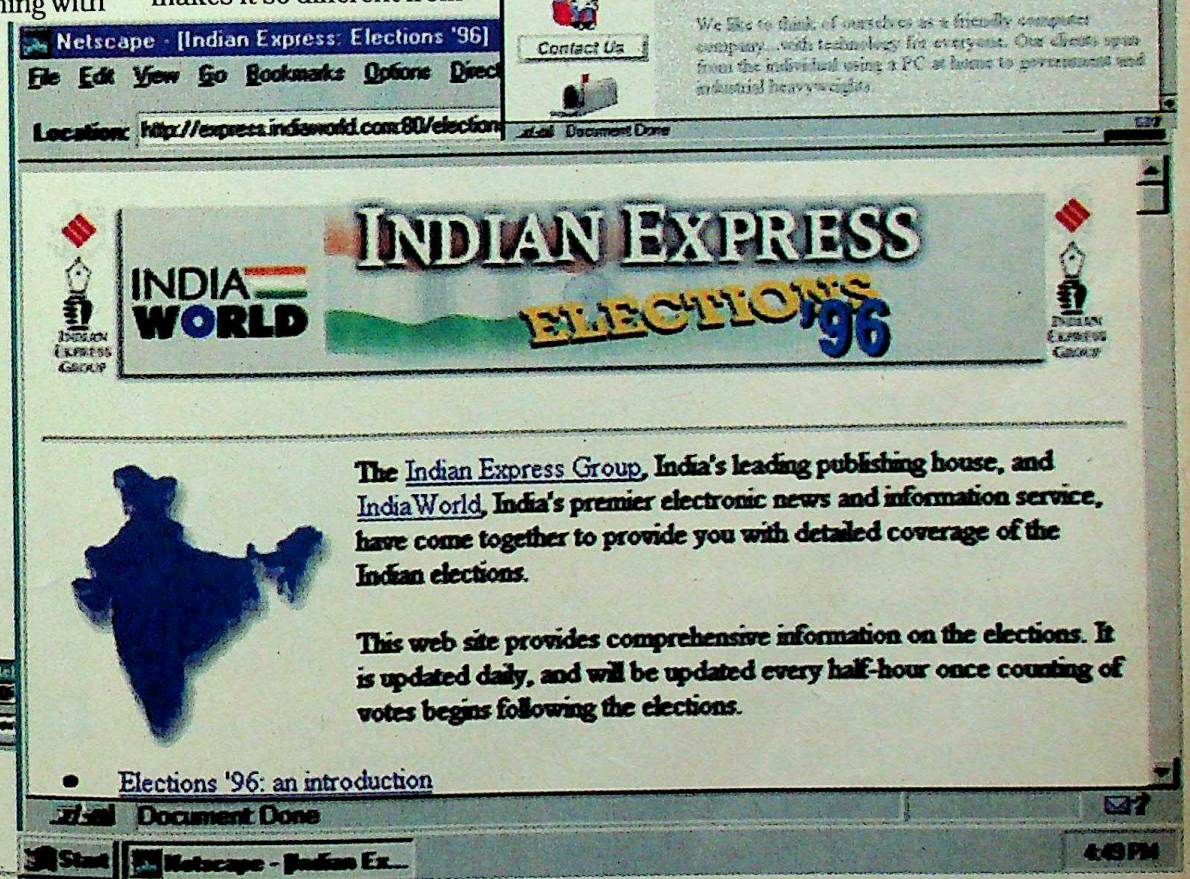
While Indian companies are heading for the Web, several sites are busy covering the elections

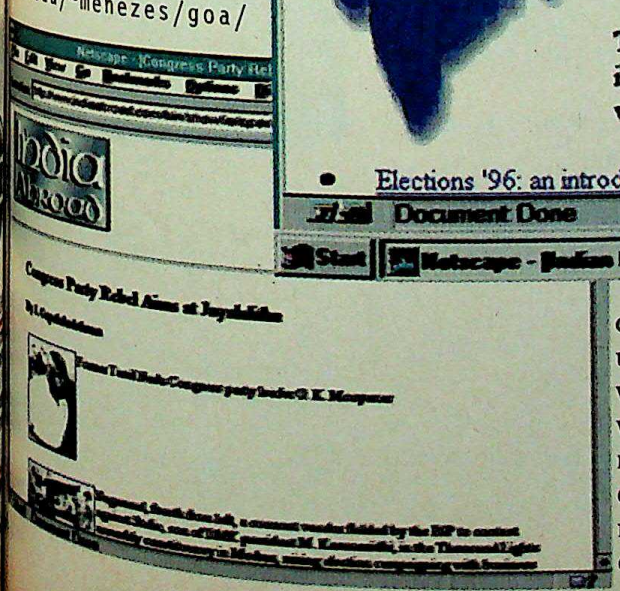
Many web sites are keeping a close watch on the Indian elections and setting up elections specials.

The Indian Ex-press is giving the elections full coverage at IndiaWorld, http://www.indiaworld.com/express. At http://www.webindia.com/elections you can update yourself on what is happening with separate bulletins on several Indian states. Webindia is featuring daily updates as things progress, interviews with leading politicians, comments from journalists and analyses of each party's prospects. They will also project the likely impact of the elections on business and industry. You can lighten up at this site with political jokes. Watch out though, for a painfully large picture to begin with.

East is east and west is west... but you can see both at IndiaWeb(http://mrlxp2.mrl.uiuc.edu/~menezes/goa/goaweb.html). Most people who have been to Goa love the special charm of the place and want to return. Those who haven't want to, someday. At this site you can see pictures of Goa, learn about its culture and history, and what makes it so different from other places. Apart from useful information for visitors, you can also virtually visit Goa's monuments, sample its cuisine and view its commercial web site. You can also check out what's available online in Goa or browse a mailing list of people like you.







Apart from that, many Indian companies have been getting onto the Web. Two of those are featured on this page: ComputerWare, and Group Usha. Many more to follow on these pages!

Mala Bhargava <mala@pobox.com>

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Windows® 95 and Windows NT™

CorelDRAW™ 6

THE WORLD'S PREMIER 32-BIT GRAPHICS APPLICATION!

INCLUDES:

- CorelDRAW™6
- Corel PHOTO-PAINT™6
- CorelDREAM 3D 6
- Corel MOTION 3D 6
- Corel PRESENTS™6

Take advantage of the full potential of Windows® 95 and Windows NT™.

With awesome speed, power and accuracy plus hundreds of enhancements, CorelDRAW 6 is the most robust graphics software suite available. CorelDRAW 6 offers fully featured software applications for illustration, photo-editing and bitmap creation, business and multimedia presentations, 3D rendering and animation. Also includes eight great utilities and incredible libraries.

PLUS:

- ***25,000 clipart images and symbols***
- ***1,000 photos***
- ***1,000 TrueType® and Type 1 fonts***
- ***Over 750 3D models***

This advertisement has been designed exclusively with CorelDRAW 6

Enter the Corel $3,000,000 World Design Contest! (September '95 to July '96)
To receive a faxed copy of the contest rules and an entry form, please call:
With a touch-tone phone: +1-613-728-0826, ext. 3080, Document # 1125.
With a rotary-dial phone: +1-613-728-8200, ext. 81609. To send a fax: +1-613-728-2891.

CCLP
Corel Corporate Licensing Program
Corel offers a simple, cost-effective software licensing program. For more information, please call +1-613-728-8200 ext. 3080 and ask for Document # 1142

Designed for Microsoft® Windows®95

Corel and CorelDRAW are either trademarks or registered trademarks of Corel Corporation in Canada, the United States and/or other countries.

Microsoft, Windows and the Windows logo are either registered trademarks or trademarks of Microsoft in the United States and/or other countries.

DATAPRO INFOWORLD LTD.
Tel: 212-638975
Fax: 212-634813

SVAM SOFTWARE
Tel: 11-3731844
Fax: 11-3723266

WIPRO SYSTEMS LTD.
Software Products Division
Tel: 80-2233534
Fax: 80-2218590

COREL WTA TOUR
Corel, Official World Title Sponsor of the COREL WTA TOUR

+353-1-706-
http://www.corel.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PC Quest's Annual UPS Shootout

Testing at IDDC, IIT Delhi

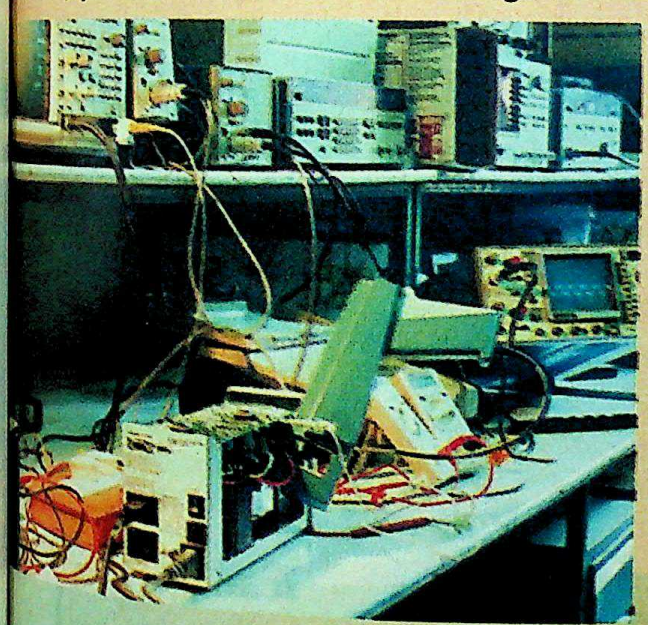
It's summer again. And the only difference in power conditioning needs this year promises you is that you did not get to wait till summer need power conditioning. In Delhi and ewhere, power was so erratic during last winter, that even serious home users began UPS-shopping earlier in the year.

For our 1996 UPS Shootout, we looked at the exciting world of low-cost, sub-compact UPSs, priced from Rs 12,000 to Rs 5,000, or lower. We tried to understand what the home and SOHO user would put their UPSs through, and came up with a series of rigorous test and other parameters for the review.

UPS systems were asked for, checked for conformance, integrity and signs of "souping up". The UPS batteries were fully charged overnight, and a series of electrical tests began at the very well-equipped Instrument Design Development Centre's (IDDC) lab at IIT Delhi.

Finally, we spent weeks checking the results, analyzing them for the end-user, and following up on apparent discrepancies.

Here are the results, in the most comprehensive UPS reviews ever in India. And the most exciting, because many of these products you can afford to buy for your home or small office—right now.



ern for the Shootout; UPS with testbench probe attached (Inset)

PKR

CC-0. Gurukul English Olympiad Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Sound Expression is an internal Multimedia product that handles the work of 5 products all on a single PC card. It offers fast Internet access with its 28,800 bps data, 14,400 bps Group 3 send/receive FAX modem capability, a voice mail system, full duplex speaker-phone and full 16-bit sound card with CD-ROM drive interfaces. So now PC-users be it from corporate or small/medium business, or professionals and home users, can surf the NET for critical information, e-mail or FAX messages with business colleagues, or play Multimedia CD's all without leaving the desktop. So next time you looking for a plain Multimedia kit or just a FAX/modem, think again. You should insist on the Sound Expression, it will truly give you total Freedom of Expression. Or if you are interested in C Partnerships, call us at 91-80-5543106 or e-mail *powertel@giasbg01.vsnl.net.in* or FAX 91-80-52

SOUND EXPRESSION

GIVE YOUR PC FREEDOM OF EXPRESSION

Sound Expression with multimedia, modem, FAX and phone capabilities.

1588-96

PowerTel

Making your PC come alive

POWERTEL BUSINESS PARTNERS: **BANGALORE-** Future Computers PH: 6650876 / 646024; FAX: 644457 **BOMBAY-** Aims International, Ltd. PH: 3891777; FAX: 3886630 Resources (P) Ltd. PH: 4750044 / 747881; FAX: 745383 **MADRAS-** Megatrends Ltd. PH: 8250142 / 8283602 / 8273750; FAX: 8250640 **NEW DELHI-** Hytex Systems (P) Ltd. PH: / 4647881; FAX: 4602881 **PUNE-** Shanark Digital Systems (P) Ltd. PH: 355762; FAX: 353701 **POWERTEL AUTHORISED RESELLERS:** **BANGALORE-** Intech PH: 6631610 / PH: 6603534 / 608673 **BOMBAY-** Kolte Computers PH: 6114490; FAX: 6109803 **HYDERABAD-** Silicon Systems PH: 241041 / 242299 / 596452 **Also available at your**

Digitized by Arya Samaj Foundation Chennai and eGangotri

Power Planning

Planning a stable power supply for an office network—or for a PC at home? Here's what you need to know

How often have you lost a file when the power failed? Or when a glitch hung Windows? Or when a voltage dip reset the PC?

Data lost due to power glitches and failures are common in India. Worse, expensive computer and peripheral equipment is sometimes damaged by power-line surges or spikes. To help you decide what steps you need to take to protect your equipment from such troubles, here is a list of the most common powerline disturbances, apart from power failures.

Brownouts or voltage sags: These are sudden reductions in the voltage delivered by the mains power line. The voltage in India is 220 volts, and a ±10 percent variation is considered normal; most computer equipment is designed to operate properly with a mains line voltage within this range. The voltage can reduce below this range either due to a malfunction on the line or due to heavy demand which is frequent in the hot summer months. These short-term reductions lasting for a fraction of a second to several seconds are commonly termed "sags", while extended duration reductions, generally caused by demand exceeding power available, are referred to as brownouts. Your computer equipment is in danger of malfunctioning or losing data when the mains voltage falls more than 10 percent below the normal value of 220 V.

Surges: These are the opposite of sags—the mains voltage jumps by more than 10 percent above the normal value. Such short duration surges lasting only a fraction of a second will not normally cause data loss (as short terms sags can), long duration surges can damage the power supplies in your equipment, and in some cases, the processors or memory chips.

Spikes: Spikes are very short duration voltage pulses on the mains line. They can last from a few microseconds to hundreds of microseconds and can reach peak levels of several thousand volts. They are often caused by nearby lightning strikes or the switching of heavy electrical equipment on the same power line. If allowed to get into your equipment, these fast pulses can "shoot-through" the equipment's power supply and corrupt the data in microprocessors and memory chips or cause data errors in printers or disc drives. Intense surges can also damage the power supply or other parts of your system's circuits.

All computers, monitors, printers, modems and other devices operate from DC voltages produced by rectifying the mains voltage. As mains line voltage is alternating, it goes to zero twice in every cycle (50 cycles are completed every second). As the circuits need power continuously, they operate off the energy stored in a capacitor, which is charged up twice in every cycle. Therefore, actually, the system operates without mains line power for a part of the cycle when the capacitor supplies the energy. This time is typically seven milliseconds—a bit less than a half cycle of 10 milliseconds.

What this means is that typical computer equipment runs without mains line power for a significant fraction of the time. Most equipment will easily withstand power outage of half a cycle (10 ms); systems with more robust power supplies could withstand a full cycle (20 mS). If the equipment is not fully loaded, such as a computer with a 150W power supply operating "barebones"—with most expansion slots empty, and few drives, the circuits may draw even less. In that case, the duration for which the device could operate without mains power would go up in the same proportion.

However, unless you are sure that the system is actually consuming much less than the rating of its power supply, it is safe to assume that your computer will be able to withstand only a half cycle without mains power.

Power Conditioning

The are several ways you can combat power line variations—surges and sags.

Stepping voltage regulators: Similar to the voltage regulators that have been used for years with refrigerators and TV sets, these devices contain a transformer with many windings. The voltage provided to your equipment can be adjusted in steps as the mains voltage changes by switching relays to select the appropriate winding. A small electronic circuit monitors the output voltage continuously, and switches the relays as required.

To be useful, the relays must switch fast enough so that power to your equipment is not interrupted for more than a half cycle. Unfortunately, manufacturers of such equipment do not certify the switchover time of their devices, so you may have to try out a particular stepping voltage regulator before deciding that you can depend on it. This is a pity, as a stepping voltage regulator is really the cheapest device for providing primary protection to computer equipment, especially in the home, where in many cases nothing more may be required! Is anyone listening out there?

The basic stepping regulator provides little protection from mains line voltage spikes. So if such a device is to be used with a computer, then a spike filter is essential. Many power strips with such filters are available. As a very minimum, these devices must have a metal oxide varistor (MOV) for reducing spike amplitude, an RF filter for filtering high fre-

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

quency noise, and a fuse to disconnect the system from the mains line in case the MOV shorts under a heavy spike or surge.

Servo Stabilizers

Servo Stabilizers contain a motor to rotate the arm on a variable transformer ("variac") to maintain constant output voltage. They are stepless, and are capable of holding the output constant to within one to two percent.

But these devices are sluggish in operation, because of the moving parts involved. The maximum correction rate is in the region of 30V/second, meaning that if the mains voltage were to dip by from 220V to 190V, the time taken to restore the voltage to within 10% (about 200V) would be a third of a second—33 ms. This is too long for most computer equipment to operate properly.

Servo Stabilizers therefore are not suitable for power conditioning for computers.

CVTs: Constant voltage Stabilizers are very popular for computer power conditioning; and many computer vendors may tend to recommend them if you are not using a UPS.

They contain a saturating transformer that chops off the top of the mains line voltage to produce a square wave with constant amplitude. This voltage is converted to a constant amplitude sine wave (the waveform normally supplied on the mains line) by using a resonating circuit using external capacitors. Hence they're "ferro-resonant".

CVTs produce a very stable output voltage, typically within three percent for mains varying over a wide range of as much as 170...270V for some types. They can therefore remove voltage sags and surges from the mains voltage quite effectively. Some spike protection is also offered by the saturating characteristics of the CVT.

The catch? First, they're expensive. A good CVT will cost almost half as much as an equivalently-rated UPS.

Second, CVTs run out of steam temporarily under a sudden load. This means that if you have a CVT rated to run two computers, then you may have to start both of them together, as turning on the second computer may cause a voltage drop long enough to "reset" the first one.

Thirdly, they run rather hot—the maximum efficiency is rarely above 85 percent—and require some air circulation to avoid failure of the capacitors.

Finally, they are not happy operating below about 25 percent load, as the capacitors get stressed.

UPS: Uninterruptible power supplies are the preferred power conditioning devices for computers, as they also provide protection from data loss due to power failures.

The UPS market is very competitive as vendors try to elbow each other for market share. There are also claims and counter claims, often exaggerated, about performance. Unless you are an electrical or electronic engineers you might find it difficult to select the right UPS for your requirement. So here is a quick rundown on UPSes and their important characteristics:

Uninterruptible Power

A UPS works by providing mains-like power to your equipment when the mains power fails. This power comes from batteries—and an inverter which converts DC power into 220V AC power. The batteries are kept charged by a charger when mains power is available.

A UPS's batteries can only supply power for so long, so UPS power will eventually die out. The time for which the UPS can supply power to the rated load with fully charged batteries is [illegible] backup time.

A critical requirement for a [illegible] that the transition to battery power [illegible] mains fails (or goes outside specified limits) must be transparent to the computer load. The time for which [illegible] power is not available in this situation is the switchover time. This should be as small as possible. Online UPS systems and a few other types, display a zero switchover time.

The UPS is traditionally of two [illegible] cal types: online and offline. A [illegible] variant, loosely referred to as "line-interactive" is presently gaining popularity.

In an **online UPS**, the output power is always supplied via the inverter, and to prevent the batteries from dying, they are kept charged by a charger that can supply the full rated power of the UPS. When mains fails, the batteries take over seamlessly, and there is no interruption at the output, meaning that switchover time is zero.

An **offline** UPS works by supplying mains power to the output normally, and in the event of a failure, sag or surge, rapidly starting an inverter and transferring the output load to it. Therefore, offline UPSs have a visible switchover or transfer time.

In the **line-interactive** UPS, the ability of the UPS to operate the load

Low-cost, sub-compact UPS systems, such as these four shown here, let you easily provide individual power protection to PCs in an office—or buy a UPS for your home PC

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Oracle Workgroup 2000
Proof that you can.

NOTICE : ALL APPLICATION SOFTWARE DEVELOPERS

The software packages you develop can now carry this credential.

How ? You can become a member of Oracle Value Service. It's an initiative under Oracle's worldwide Business Alliance Programme, dedicated totally to the workgroup market through Oracle Workgroup/2000.

What's Oracle Workgroup/2000 ? A family of client/server products that provide complete, end-to-end, application development solutions optimised for today's workgroups.It includes five fully integrated products - Personal Oracle7, Oracle7 Workgroup Server, Oracle Objects for OLE, Oracle Mobile Agents and Oracle Power Objects.

Benefit ? Your products will get credibility because of their association with a world leader. It will also enhance your business prospects through Oracle's global support in marketing and sales.

How to apply ? Just mail or fax the attached coupon. You will receive the application form along with more information on Oracle Value Service.

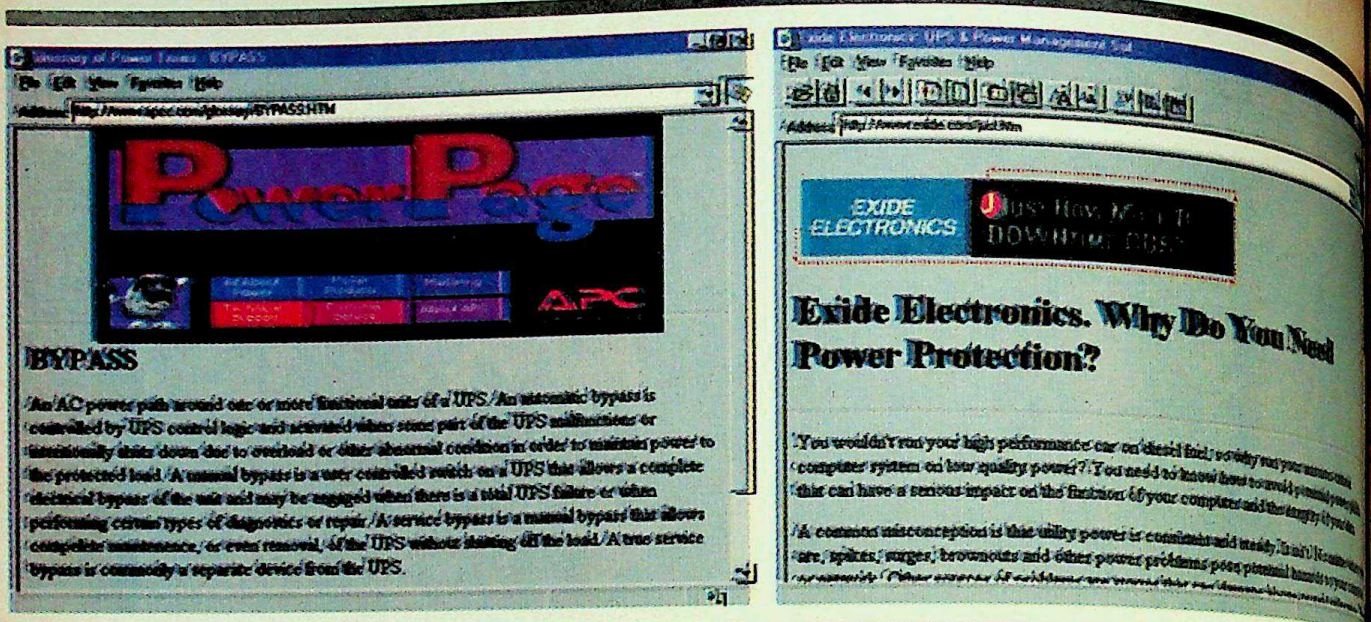
ORACLE

...information about Oracle Value Service.
...Designation : ..... Organisation : .....
...Tel : ..... Fax : ..... E-mail : .....
...this coupon to : Yashi Kant, Oracle Software India Pvt. Ltd., Dr. Gopal Das Bhawan, 28 Barakhamba Road, New Delhi 110 001. Fax 3720572, 6467923.

PQ

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



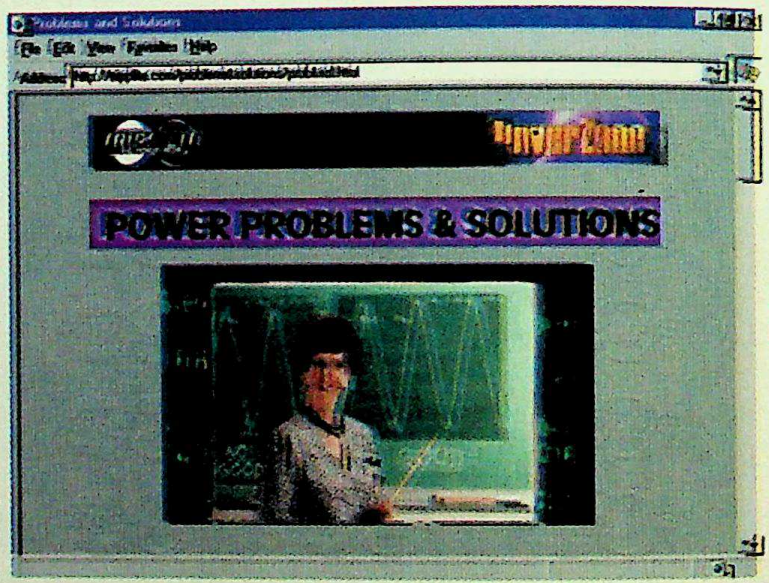
mains power is enhanced by adding some form of voltage regulation so that the UPS can provide acceptable power to the load for a wider mains voltage range than the ±10 percent that typical computer equipment can withstand.

An online UPS provides the best protection, but is usually larger and heavier. It also costs more, because the inverter has to be rated for continuous operation, and a separate charger is required to provide DC power to the inverter. The offline types are cheaper, as the inverter needs to be rated only for intermittent operation, and a smaller battery charger is required. They also run cooler, leading to longer life; but without some mains voltage regulation, they would remain off most of the time in many parts of the country!

Most online UPSs have elaborate spike voltage protection, as the UPS itself is most susceptible to them, and the vendor would be concerned about the health of his product. Many offline units offer poor or no protection at all from spikes, as they pass on the mains voltage to the load directly when it is available. It is best to buy a little extra insurance by adding a spike filtering power strip at the output of such UPSs.

Online UPSs provide sine wave output, which is what the normal mains does; in addition, they have constant voltage and frequency. On the other hand, many off-line or line-interactive types provide a quasi-sine output, which is very rough approximation to the sine wave shape of the mains voltage. Most computer vendors do not recommend extended operation on such a voltage; but operation for short durations causes no harm, especially if you consider that normally your equipment will not operate on UPS power for more than a few percent of its lifetime.

However, equipment that does not have an SMPS right at its input may not operate properly, and may even be damaged if operated from a quasi sine wave. The quasi-sine UPS architecture is suitable for powering very localized single or multiple computer loads. Some vendors offer such models with ratings up to 2 kVA or higher, implying that the UPS output could be piped to several distributed loads. This arrangement could lead to severe disturbances on



For those with Internet access, UPS vendors' and others' Websites pack a lot of power protection information; among the most useful is APC's site (http://www.apcc.com/).

adjacent data lines such LAN or telephone-... wiring, as the quasi-sine ... shape has sharp edges ... can easily couple capac... noise into nearby wires.

Power Conditioning for Networks

Networks are rapidly ... ing in popularity. The ... tages of sharing large ... bases, and the possibili... paperless operation of ... large organizations, are ... the many factors driving ... trend. However, UPS selec... acquires new dimensions ... you're choosing one ... network.

Let's look at a cluster of 10 comp... in a small office, networked to a ser... In a low-end network, the info... stations may be only terminals wit... off virtual hard disks in the serv... such a situation, some minimal ... protection is obtained by putting ... the server on a UPS. Typically, ... minutes are enough for a server to ... down gracefully; so a UPS pro... about 10 minutes back-up time ... be adequate. Unless the terminals ... on UPS, there would be little point ... having extended server operation ... UPS.

More often, the terminals are ... gent nodes—386, 486 or Pentium ... chines working stand-alone and ... the network only for loading up soft... or accessing a data base. This ... computer will require UPS protec...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Oracle Workgroup 2000
Proof that you can.

As a front-end development tool,
Oracle Power Objects
is simply the best !

"Says who?"

"Power Objects can be described as 'Visual Basic on database steroids'. It's an elegant tool that's easy to use.
- **February, 1996, Lars Danielsson, PCWORLD**

A combination of strong ease of use and high-performance connectivity should put Oracle Corp.'s new Power Objects in the company of the top desktop development tools.
- **August 7, 1995, Ed Dowgiallo, INFOWORLD**

Oracle Corp. has done an outstanding job of simplifying the development of general-purpose client/server applications with Power Objects 1.0, an easy-to-use, 16 bit programmable front-end tool the company released in late July.
- **September 6, 1995, Bob Gallagher, PCWEEK"**

Within a few months of its release, Oracle Power Objects, the front-end visual programming tool for standalone and workgroup application development, has taken the entire IT industry by storm.
Packed with features like drag-and-drop, object-oriented programming and robust data handling capabilities, it enables developers to deliver powerful client / server applications easier, faster, and with less code than ever before.
It's no wonder that Oracle Power Objects is scoring so well in all international PC magazine reviews.
And if hearing is not believing, just mail / fax us the attached coupon.

ORACLE®
Enabling the Information Age

Send me a free copy of PCWorld's review of Oracle Power Objects. PQ
Name : ..... Designation : ..... Organisation : .....
Address : .....
Mail this coupon to : Rajeev Mittal, Oracle Software India Pvt. Ltd., Dr. Gopal Das Bhawan, 28 Barakhamba Road, New Delhi 110 001. Tel : ..... Fax : ..... E-mail : ..... Fax 3720572, 6467923.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

In this situation, what is better? A centralized UPS or a distributed arrangement with individual UPSs for each node?

A centralized UPS can be more economical, if planned well. It involves fewer hardware hassles due to the interconnection of computers, and it provides a single location for monitoring and maintenance.

A distributed UPS arrangement has its own plus points. First, you can start out cheaper—say with just the server and a critical node, then adding later as you need protection. Then, there's no possibility of a faulty computer (with say a shorted power supply) shutting off the "main UPS" and bringing the network down. There's no need for special UPS wiring, which could be mistaken for normal mains wiring by a different electrician. Essentially, the whole network does not come down due to a single point main UPS failure.

For critical applications, which must be kept operating for long durations in the absence of mains (like bank computers or operation theaters in hospitals) a centralized online UPS with secure UPS power wiring is probably the best choice. But for small clusters where the main objective is data security and backup times longer than a few minutes are not required, the distributed UPS approach is attractive, especially if lower cost offline or line-interactive types are used.

Such an architecture implies that most of the time, each of the devices is running essentially from the mains line. But this arrangement has potential ground noise problems, which must be considered.

Noise On The Network

For human safety reasons, the metallic chassis of all equipment is connected to the mains earth to safely conduct stray electrical currents reaching the exposed metal parts to earth or "ground". For the same reason, the exposed metal parts on printer connectors and serial interface cable are also grounded, which results in the negative point of the +5V voltage supply for processor and memory circuits also going to ground.

When many computers are connected together in a network, all these grounds could get connected together and to the mains earth. Theoretically, the mains earth is a thick wire connected to an earth connection like a buried copper plate. In practice, it is often ill-defined, and not well maintained.

In addition, all manner of other electrical equipment would be connected to the mains earth in a typical electrical power network. What this means is that in a real situation, unknown currents could be flowing on the ground line, caused by unidentifiable devices on the power network. This results in voltage drops along the ground line, which could lead to data errors.

These voltage drops are variously called ground loop noise, inter-system ground loops, or simply ground bumps. In extreme cases, hardware damage could also take place. Damaged serial port buffers is a common enough occurrence. A distributed UPS system has to contend with this possibility. A centralized online UPS with dedicated power wiring is somewhat immune to this problem.

One way out—though not always implementable—is to use a mains line isolation transformer with a separate dedicated earth connection. One output wire of the isolation transformer is connected to the dedicated earth (and becomes the NEUTRAL wire, the other being LIVE), which is scrupulously kept separate from the earth of the mains power network. To maintain human safety, this dedicated earth must actually be grounded via copper rods or plates embedded in the earth in a prescribed manner. Note that the isolation transformer is of little use if a separate earth connection is not used.

No doubt this scheme calls for dedicated line power wiring, but it does allow distributed UPS's to be used with much reduced possibility of data errors, or the single point failure disadvantage of a centralized UPS. This expensive step is not required for a small cluster in which all the nodes are physically close, say within 20 meters.

The dedicated earth approach, however, is clearly not applicable for larger networks which may span several floors in a large building or separate buildings. If a dedicated ground is not feasible, you need to take some steps to reduce the noise susceptibility of your network. Thin or UTP ethernets have isolation transformers in each network card, and so are less susceptible to ground noise.

The most susceptible components are RS232 type serial interfaces. a could involve cable runs of a few meters. RS232 interface protec available internationally (from nies such as APC). The most ones are based on optical isolat completely eliminates electrical between the interconnected devi other possibility is to add a pair lated modems in the serial com tion path.

Irrespective of what type of stallation you have, it helps to heavy loads, especially those inductive loads like motors onto ent phase of mains power, and to that the segment of mains ground nection to your network is not other heavy loads.

Power Conditioning Selection

If you are going to select a conditioning system for a single puter or for a network, the steps may prove helpful.

Determine the VA rating of system. The best is to be able to it. This requires a true RMS volt current reading meter; the VA r the product of the RMS curren system draws multiplied by the mains voltage. You must include a margin, at least 25 percent, to for operating differences.

Another way is to read off the rating of your equipment's power plies and divide by 0.65 to get the lent VA rating. This will give you maximum VA rating, even though may not be using all of it now.

Choose the device type and For single standalone PC, deter you can afford a UPS or whether a voltage regulating device will do. I on a tight budget, then seriously sider just a stepped voltage reg with a spike filter. However, UPSs now start at under Rs 6,000, so e a budget this may be your best

Do not be easily talked into CVT, because it will prove to be investment when you decide to to a UPS—often, an inevitability.

For a network, decide on a UPS versus a distributed arrang And decide on online vs offline do. Estimate the VA rating

Continued on page

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PC Quest Summer 96 CD-ROM

snapshots and software from

The Internet

PC Quest Fall 96 CD-ROM

hundreds of megabytes of

Games & Graphics

Total Space	Cost per MB
100 MB	Rs 3,500
50 MB	Rs 5,000
25 MB	Rs 6,000
10 MB	Rs 7,500
5 MB	Rs 8,500
2 MB	Rs 12,500

Rates for booking space, valid for PCQ Summer and Fall 96 CD-ROMs.
Print run for each CD-ROM is 55,000.
On the Internet: PCQ CDROM <pcq@pobox.com>. Fax 011-6475765

PCQ CD-ROMs.
600 MB of software,
free, every three months.

CC-0. In Public Domain. Gurukul Kangri Colle[illegible]idwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DQ TV

Presents

COMPUTERS FOR YOU

Every Thursday at 10.30 pm
On DD Metro Channel

Watch the amazing benefits computers have brought about in every walk of life!

Computers For You is sponsored by:

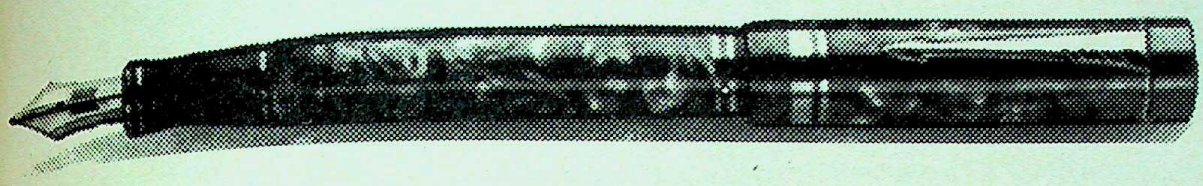
ORACLE SOFTWARE INDIA PVT LTD

&

APTECH

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



THIS IS NOT A PEN.

(IT IS A WEAPON TO SET A CHILD FREE.)

Transform a small, homeless, deprived child into a literate, confident child. 6,50,000 children will tell you that's possible. CRY reached out to them through social workers all over the country. By supporting 150 child related education projects over the last 16 years. But we still need to support many more projects and reach out to many, many more children.

It costs us Rs. 400 to educate one child for a year. For an additional Rs. 300 we can reach her health care too. You can choose exactly how you would like to rewrite her future.

Wield your pen. So a deprived child can learn to use one.

I'd like to rewrite the future of a child

by supporting for one year the:

- Education of ☐1 ☐ 2 ☐ 5 ____children at ☐ Rs. 400 ☐ Rs. 800 ☐ Rs. 2000 ☐ Rs._____
- Education & Health of ☐ 1 ☐ 2 ☐ 5 _____ children at ☐ Rs. 700 ☐ Rs. 1400 ☐ Rs. 3500 ☐ Rs._____

222

Name_____

Tel_____

Address_____

☐ In order to avail 100% tax exemption under section 35AC or 80GGA, I would like to donate the same under CRYSID (CRY Supported Initiatives for Development) for the above schemes. If you have chosen to donate under CRYSID, CRY needs your Income Tax No. and signature.

In any case, all donations are eligible for 50% Tax Relief under section 80G.

PAN/ GIR No. _____/ Not allotted

Signature_____

My cheque/DD/MO is drawn in favour of CRY - Child Relief and You.

Mail your donation (with this coupon) to:

CRY - Child Relief and You

DDA Slum Wing, Community Facility Complex, Bapu Park,
Kotla Mubarakpur, New Delhi 110 003. Tel :4693137/ 4790 /3159

CHILD RELIEF AND YOU

Clarion 2B1E09

Please cut this coupon now. Tomorrow this paper will be in the pile.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Albit 500 C

A 500 VA offline with reasonable performance but low backup time

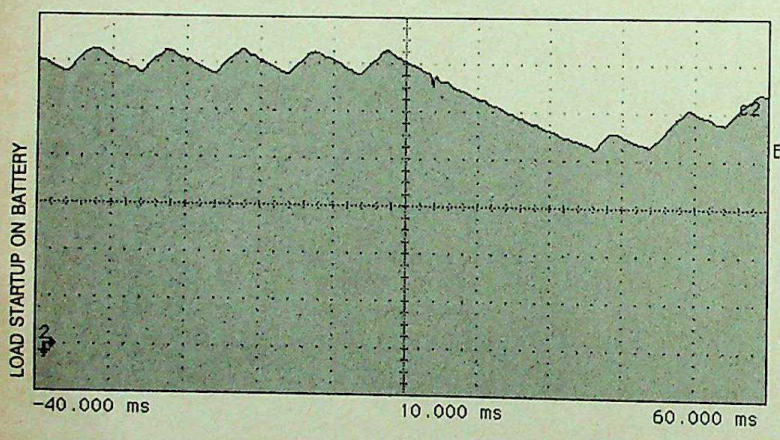
THE SPECS

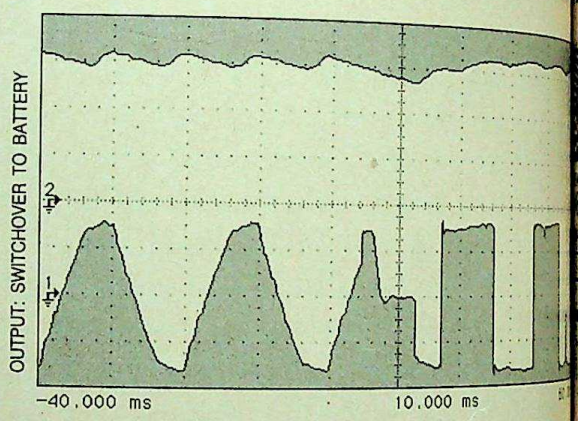
Albit 500 C. A heavy 500 VA model with low efficiency. The Albit has three-... and optional external batteries can ... the backup time. Rs 9,900. POD...
Ranking: 6 (of 17 tested)
Efficiency: 70% at 260 W
Switchover time: 6.8 ms
Backup time: 8 minutes

The Albit 500 C is one of the few UPSs in this list to have its battery float voltage within acceptable limits. The Albit put up a reasonable performance in the lab-tested parameters, but fared poorly on price, warranty and compactness. Unlike the Datex and the Nissan, which also fared poorly on these points, the Albit could not make up on the electrical tests, leading to the low ranking.

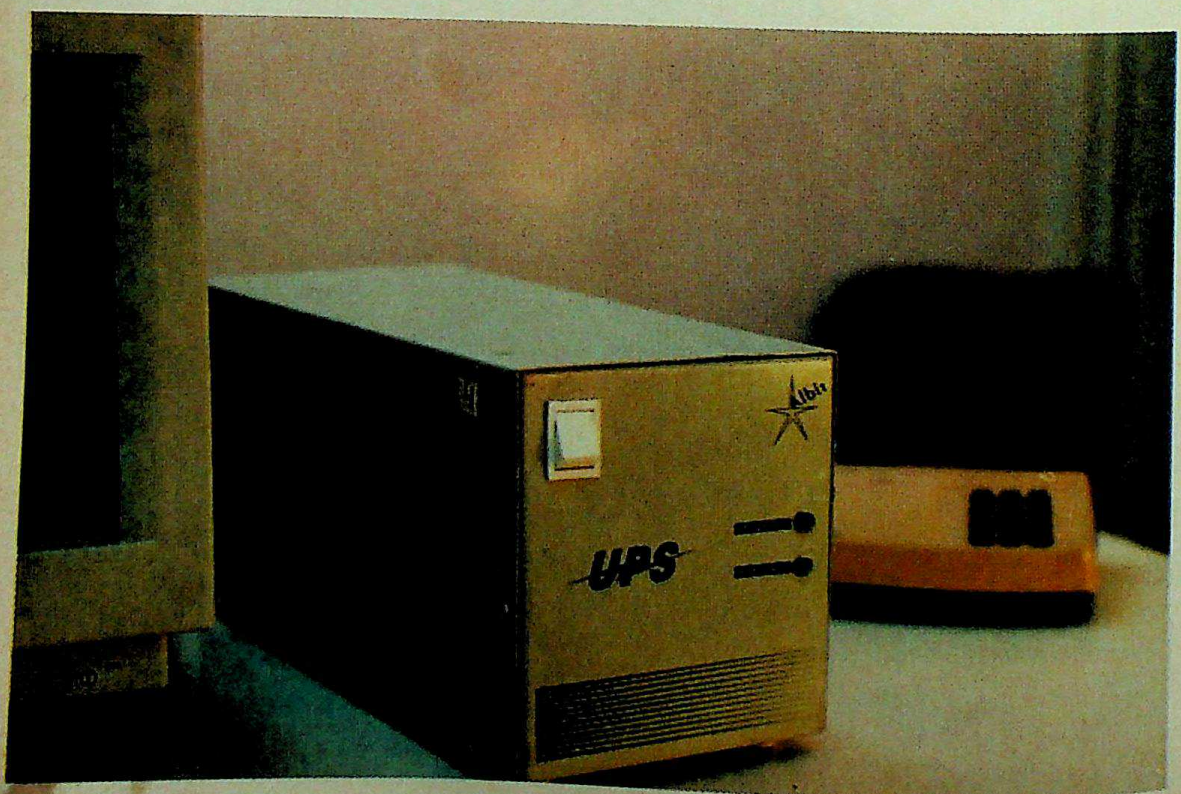
The Albit, like most of the others, has a simple front panel with a single switch and two LED indicators. On the back panel there are three ... terminals for external batter... increasing the backup time.

The switchover time a...





The Albit displayed reasonably fast switchover, and it was able to cold-start a second 250 VA load

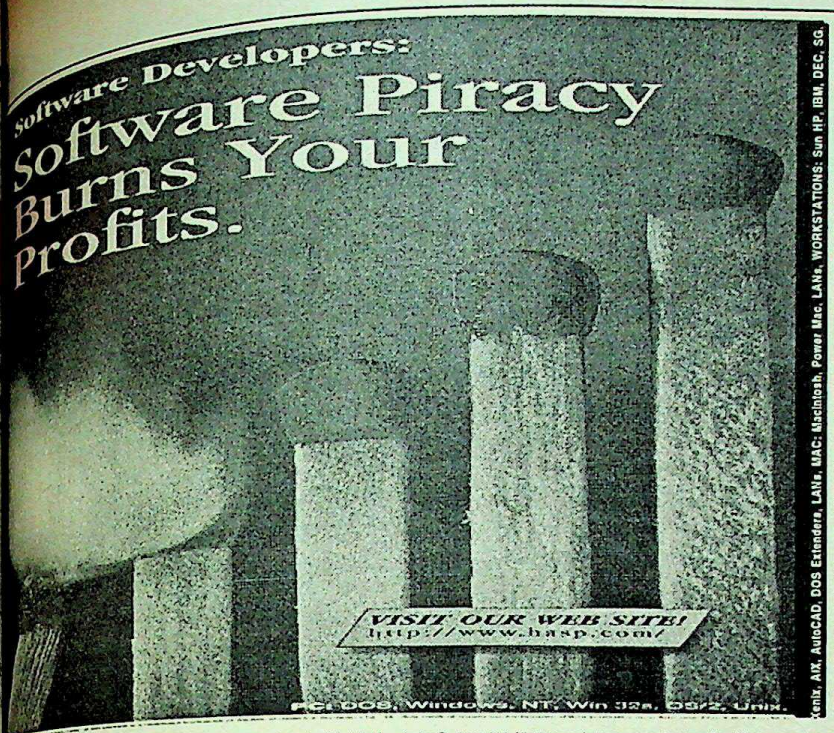


milliseconds is rea... fast, and it was able ... the second 250 VA ... supplying a minim... V. It survived the ... circuit test, tripped ... restored by a power ... cycle.

The Albit however ... a low efficiency of ... at 260 watts.

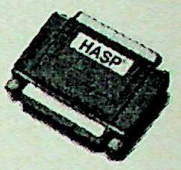
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Each year, the illegal use of software consumes nearly 50% of your potential revenues. With the flames of piracy eating away at your profits, can you afford not to protect your software?

HASP® is widely acclaimed as the world's most advanced software protection solution. Since 1984 thousands of leading developers have used nearly **two million** HASP keys to protect billions of dollars worth of software of Why? Because HASP's **ASIC** *(Application Specific Integrated Circuit)* security, reliability, and ease-of-use led them to a simple conclusion: HASP is the most effective software protection system available.



Today, more developers are choosing HASP than any other software protection methods. To learn why, and to see how easily you can increase your revenues, call now to order your **free** HASP Developer's Kit.

NSTL STUDY RATES HASP AS NUMBER ONE!

1985-1995 10 YEARS

ALADDIN
The Professional's Choice

Aladdin Knowledge Systems Ltd.
Tel. : 972-3-537 5795. Fax : 972-3-537 5796.
E-mail: sales@aks.com
WWW:http://aks.com/

Distributed by :

SOLUTION INDIA
A-91, Anand Vihar, Delhi-110092
Tel. : 011-214 8254
Fax : 011-214 8994
Email: india.solu@axcess. net.in

Sentinel Systems Ltd. 1985-1995 (10.95) HASP® is a registered trademark of Aladdin Knowledge Systems Ltd. All other product names are trademarks of their respective owners. The Mac OS logo are trademarks of Apple Computer, Inc. used under license. NSTL makes no recommendation or endrosement of any product.

Kermit, AIX, AutoCAD, DOS Extenders, LANs, MACs, Macintosh, Power Mac, LANs, WORKSTATIONS: Sun HP, IBM, DEC, SG.

MICROSOFT WINDOWS COMPATIBLE Mac OS

DTP OPERATORS WITH A FLAIR FOR TYPE

A leading New Delhi based magazine publishing firm needs DTP operators familiar with Type 1 fonts under ATM, application of process colors in Page Maker 5.0, Corel Draw 3.0 and Magazine layouts. Operators need to have 2-3 years experience in such environments.

Local candidates and excellent outstation candidates need apply to the address below;

C/o BOX No 543-95/1
PC QUEST, 701 Meghdoot, 94 Nehru Place, New Delhi 110019

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

APC Back-UPS Pro 280

EDITOR'S CHOICE · PC QUEST · 1996

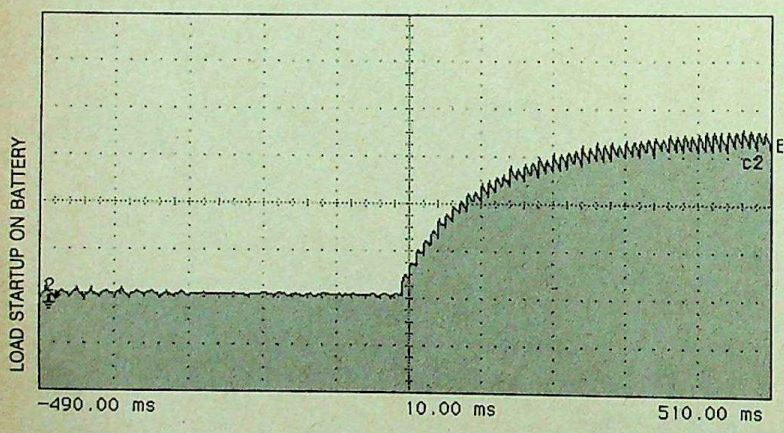
The best performer in the sub-300 VA range, great for a single PC

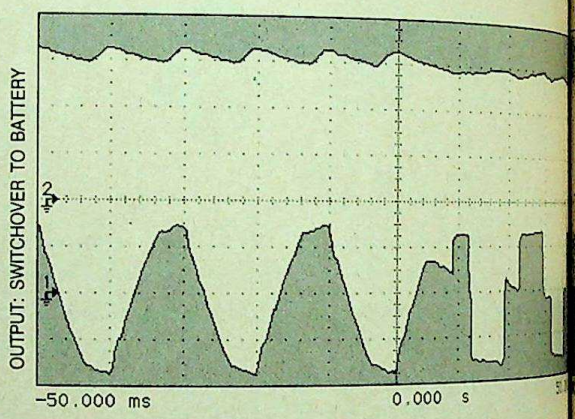
THE SPECS

APC Back-UPS Pro 280. A well-designed weight line-interactive UPS with ... for software control and remote ... through modem. Low regulation ... conditions, but the best perform... under-300 VA range. Rs 11,... #E0533

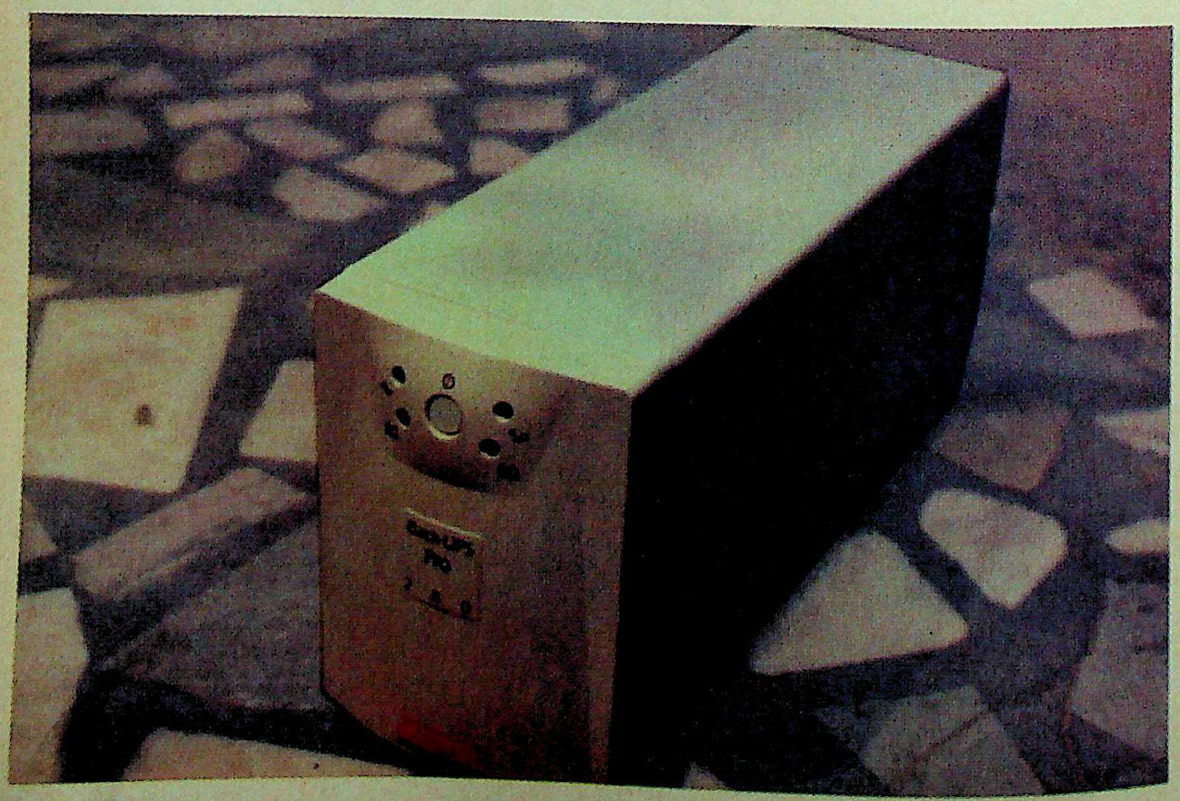
Ranking: 7 (of 17 tested)
Efficiency: 81% at 142 W
Switchover time: 4.2 ms
Backup time: 5 minutes

This is the highest ranking sub-300 VA UPS, and also the highest ranking one from APC. The Back-UPS Pro 280 has designer looks with a single recessed push button switch on the front panel surrounded by four LEDs. The back panel has four outlets, which is overkill considering its rating. An RS 232 port is ... for software control. Two RJ11 ... are provided for telephone line ...





The Backup Pro performed well in switchover, but failed to cold start a 250 VA load



out to remotely ... UPS through a mo...

The Back-UPS Pro ... logged a good switch... time with a five ... backup time. In the ... circuit test, it tripped ... was restored to ... an on-off.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Datex Accure FA 40 IB

Performance and long backup make this 400VA UPS a winner

The Datex Accure 40 IB tops the rankings with top honors in our lab tests, and in backup time. With a calculated backup of 24 minutes, the Accure outpaced the competition.

However, it was unable to cold-start a 250 VA load. Its long backup isn't very useful if you want to start your PC on the UPS when the mains has failed. Worse, the battery float voltage was outside limits. It is no wonder that although the UPS has a two year warranty, the batteries are just covered for a year.

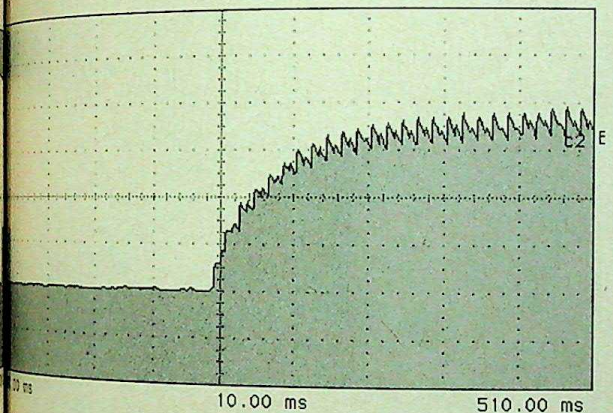
The Accure has a no-frills metal case with six touch switches on the front and two power outlets at the back. It achieved efficiencies of 89 percent at 160W, with a switchover of 4.6 ms. The unit tested achieved very good voltage regulation with output voltages regulated to well within 10 percent. Although labeleds as line-interactive, it did not display any such characteristics during testing.

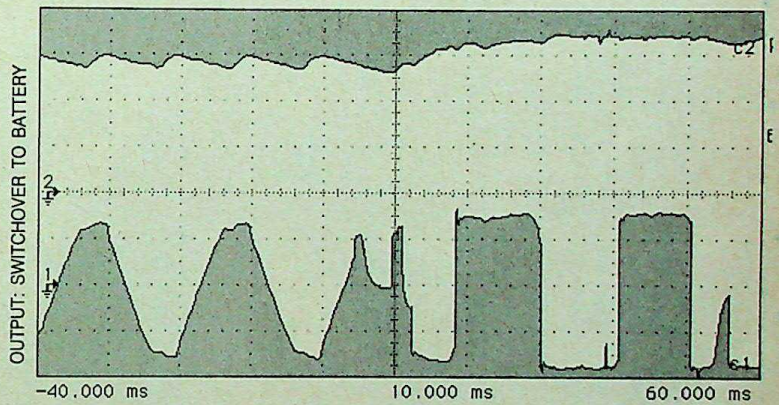
The backup time was calculated for a 250 VA load. It would be lower at 400 VA.

THE SPECS

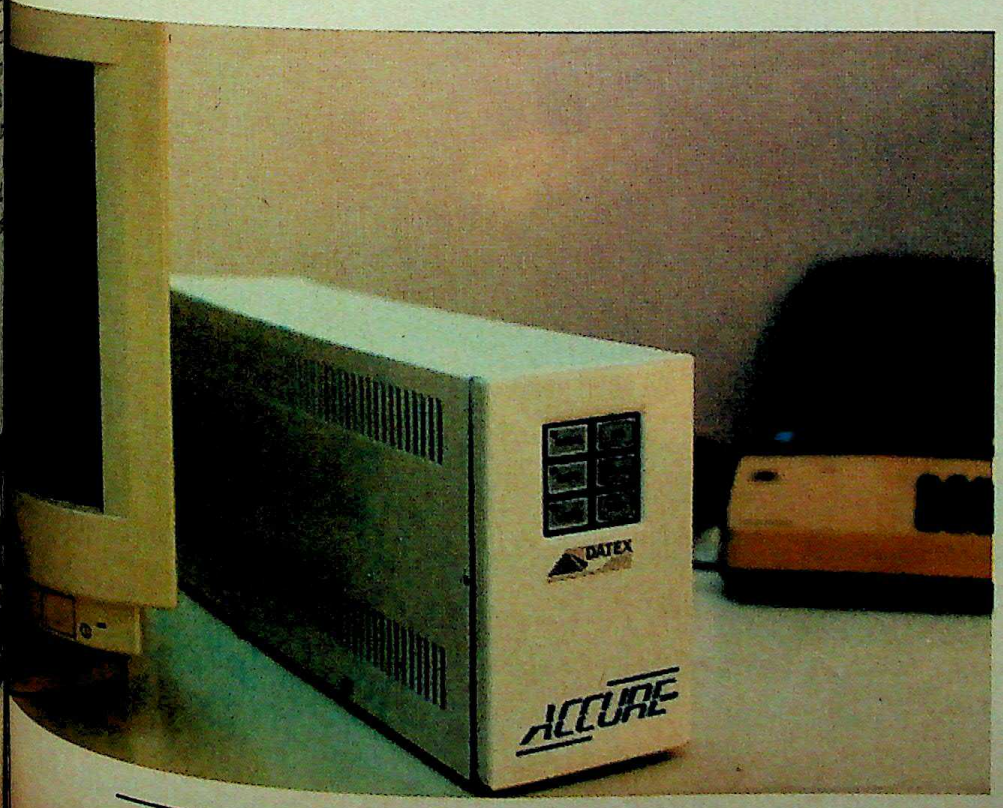
Datex Accure FA 40 IB. A somewhat heavy 400 VA UPS whose performance and long backup time make up for rather tacky looks and an inability to cold-start a load on battery. Rs 11,000. RQS #E0539.

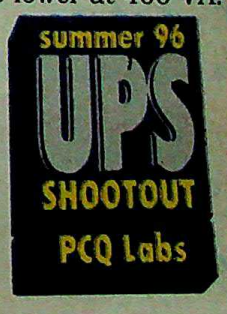
Ranking: 1 (of 17 tested)
Efficiency: 89% at 160 W
Switchover time: 4.6 ms
Backup time: 24 minutes





Accure managed an impressive 4.6 ms switchover, but failed to cold-start a load on battery





CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CC-0. In Public D Gurukul Kangri Collection

Digitized by Arya Samaj Foundation Chennai and eGangotri

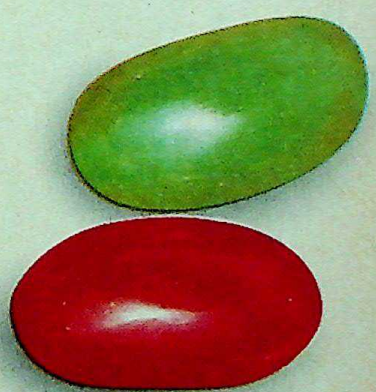
No Lord, gimme bread.

You've heard it all before.

Big budget ideas. Tight budget realities. Every client, big or small, comes up against them at some time or the other. Still, it's up to you to deliver, while making sure every job comes out looking like it couldn't be done any better. And more economically.

So how do you walk this tight-thread of a rope?

Do what the big guns like B.R. Films, Zee TV, Doordarshan, Television Eighteen and others do. Stick to Benchmark's all-encompassing range of non-proprietary film and video post production equipment.



Where for example you have, at least, 7 options for your Graphics or Animation needs. Like the Inscriber, Illuminator PRO, VMAXX and others. Another 3 for Video Editing, like the Matrox Studio, D-Vision PostSUITE, and Virtual Recorder. Another 5 for Multimedia Subsystems. Getting monotonous, aren't we?

For the entire menu, check out the bottom of this ad. For the secret behind it, get in touch with Rinku Roy. You can fax her on 91-44-4910123.

And make sure the bread keeps rolling in while the jobs keep rolling out.

BENCHMARK

India's film and video post production store.

BENCHMARK MICROSYSTEMS PVT. LTD. Ceebros Arcade Sardar Patel Road Adyar Madras 600 020 India **Phone** 91-44-491 0054 **Fax** 91-44-491 0123

Clarion 5Q1E07

MATROX STUDIO

D VISION PostSUITE

VR Virtual Recorder

OPTIBASE LEADING THE MPEG REVOLUTION
- MPEG-1 ENCODER
- MPEG-1/2 DECODER
- MPEG-1E1 VIDEO COMMUNICATIONS LINK

Matrox Marvel Millennium

DOLBY

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar
All trademarks, registered trademarks, and logos are of their respective holders.

Digitized by Arya Samaj Foundation Chennai and eGangotri

UN-INTERRUPTIBLE POWER SUPPLY

?

Is It A Good UPS ?

CHECK IT OUT...

BUY the BEST!

The Comparative Test

The No.1 Competitor		Synergy SMART POWER
180 - 210V	Battery Mode Regulation	224 -229V
>10 ms	Transfer Time	4 ms
☑	Line Interactive	☑
☒	50 Khz PWM	☑
☒	MOSFET based switching	☑
☒	Load & Battery Level Indicators	☑
☒	Communications & Software (Add-on)	☑
☑	Built - In AVR	☑

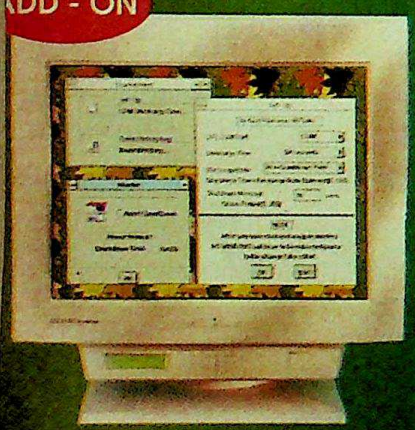
Typical for Load test at 700W

from
Larg
OEM Supp
thousand
Installati

Models : 625 & 1250 VA

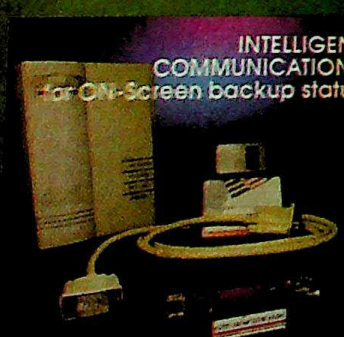
POWER BLACKOUTS

ADD - ON



Dealer Enquiries Welcome

Also Available :
ONLINE : 0.5 to 15 KVA



The Next Generat

Manufactured by :

SYNERGY SYSTEMS

CB - 385 A , RING ROAD ,
NARAINA , NEW DELHI - 110 028.
Ph : 542 2278 ; Fax : 570 3574.
Fac : S - 102 , Badli Ind. Estate - I,
Delhi - 110 042. Ph : 729 3764.

Synergy
SMART POWER

Digitized by Arya Samaj Foundation Chennai and eGangotri

LDS Powersave

This indigenous UPS has the shortest switchover time

THE SPECS

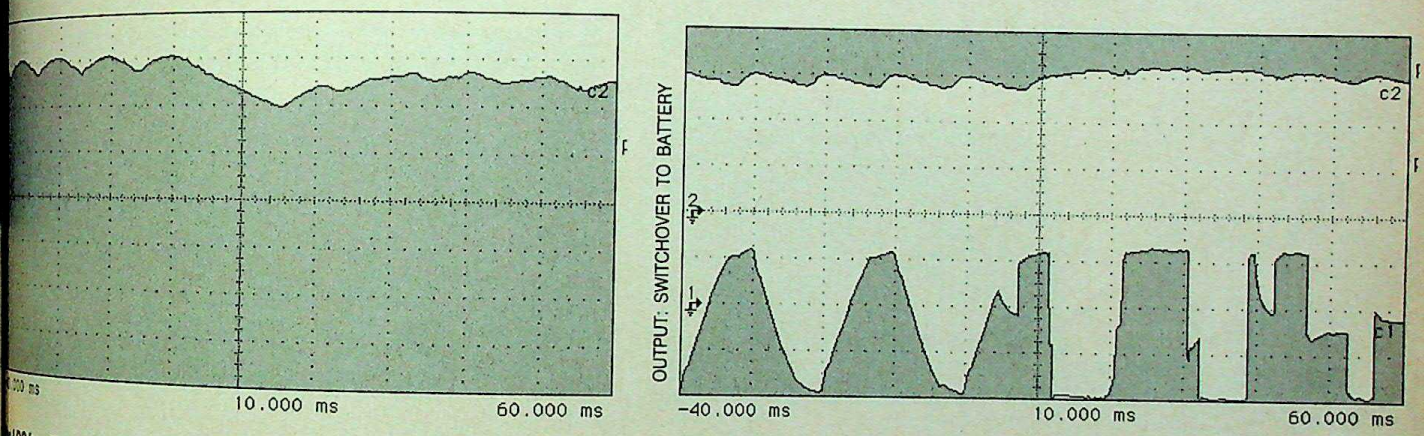
LDS Power Save UPS. A rather heavy 500 VA offline UPS. Ultra-fast switchover, but could have done with better voltage regulation. Can take additional external batteries. Rs 11,800. RQS #E0532
Ranking: 7 (of 17 tested)
Efficiency: 83% at 285 W
Switchover time: 2.8 ms
Backup time: 9 minutes

The LDS Powersave UPS shares the seventh position with the APC Backup Pro 280.

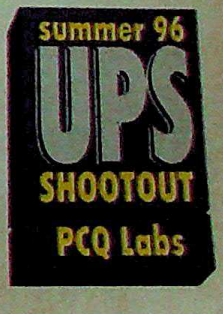
It has the shortest switchover time of all the units tested—2.8 milliseconds. With a backup time of nine minutes and an efficiency of 83 percent at 285 watts, it provides good performance. A couple of years ago, the LDS would have been a winner, but now there are UPSs with better performances and the LDS ended up seventh.

The LDS is very heavy compared to the others, with a fairly elaborate front panel—five indicators and three switches on the front, and three outlets and terminals to connect external batteries to increase backup time. The LDS is one model where the PCBs clearly state 'Made in India' and it performs much better than several imported models.

It was able to start up the second 250 VA load. Its output voltage regulation could have been better; that, and additional backup time, would have taken it to the top.



The LDS has the least switch over time of all the units tested.



CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Link LU 300

A sub-compact for installation inside the PC

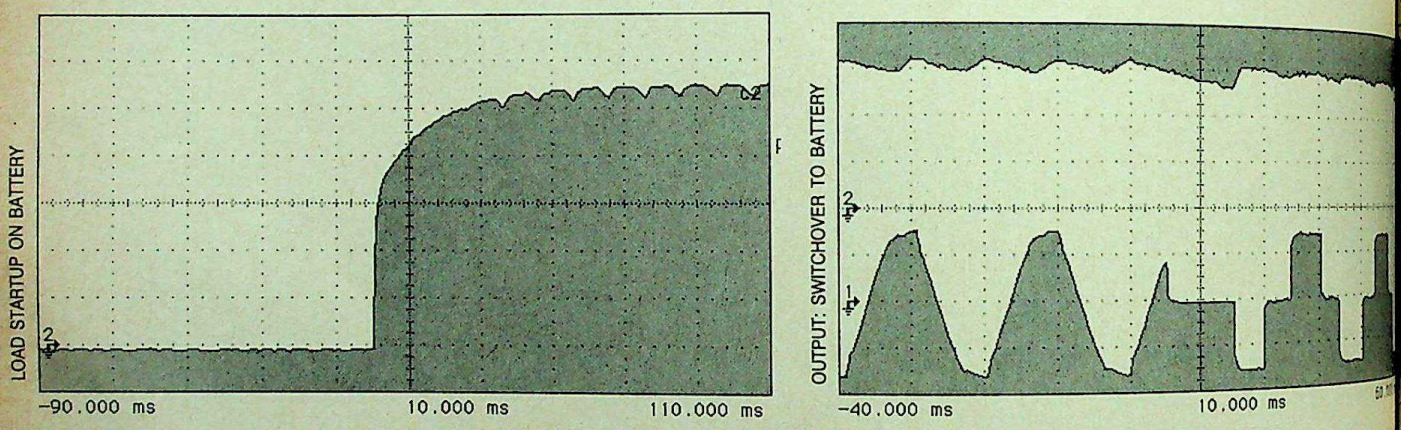
THE SPECS

Link LU 300. Offline 300VA sub-compact UPS for installation inside the PC, in the 5.25" drive bays. Brief backup, and no regulation. Rs 12,000. RQS #E0523
Ranking: 17 (of 17 tested)
Efficiency: 91% at 112 W.
Switchover time: 10 ms
Backup time: 4 minutes

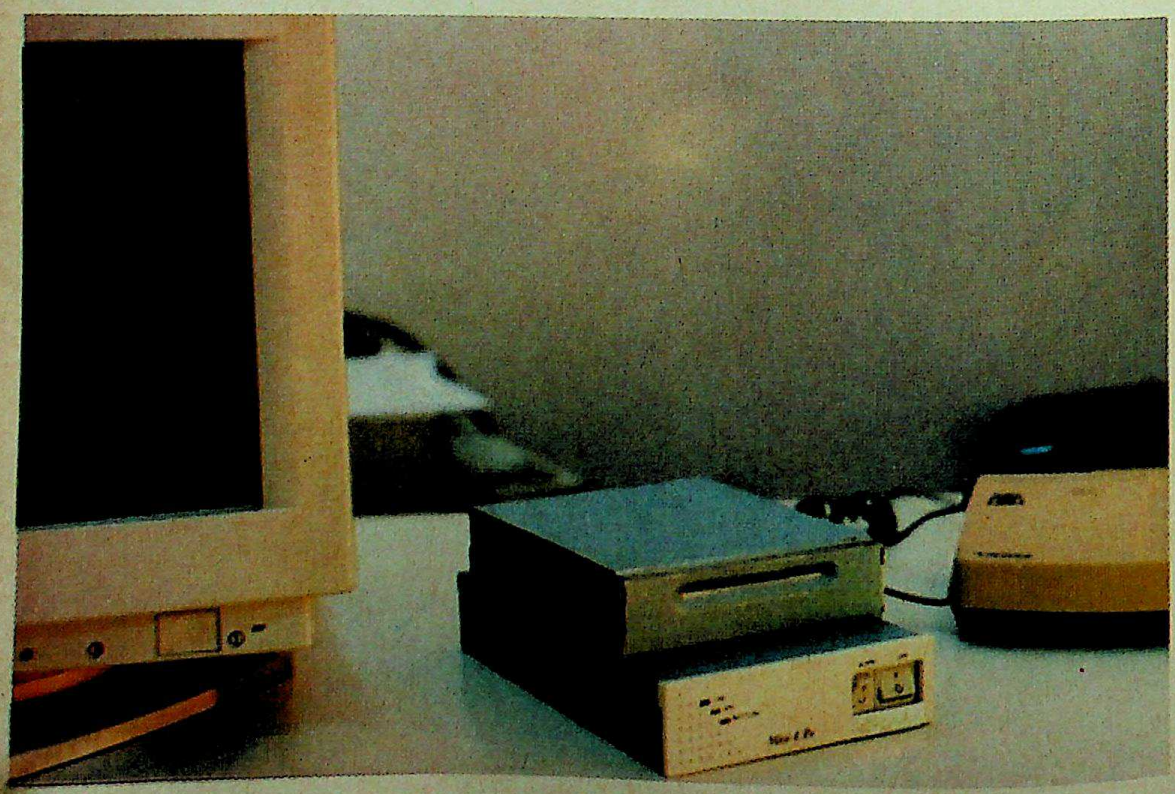
The Link LU 300 was the smallest UPS we tested. This UPS came to us in a small box, which had the connection diagram on one of its sides. So don't throw the box away.

In the box are cables to connect the UPS to the SMPS, to the battery pack and to the mains supply. There are few frills: an on-off switch, an alarm reset, and clearly labelled indicators for mains, backup mode and low battery.

The switchover time was 10 ms. To our pleasant surprise, it was not only able to cold start the 250 VA load cleanly (unlike some of the bigger units tested), but it also self-recovered upon removal of the short circuit. On the flip side, the UPS does not provide for regulation



The LU 300 managed an impressive cold start on battery, though its switchover speed was average



line voltage variations, given the power conditions in India, this is a disadvantage.

We calculated the backup time for the LU 300 as 4 minutes, just about enough to save your work and shut down. Efficiency was 91 percent, but at a low load of 112 Watts.

At 12,000 rupees, this UPS barely made it to our list. Go for this one only if you are really cramped for space.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

MAX 625 SLK

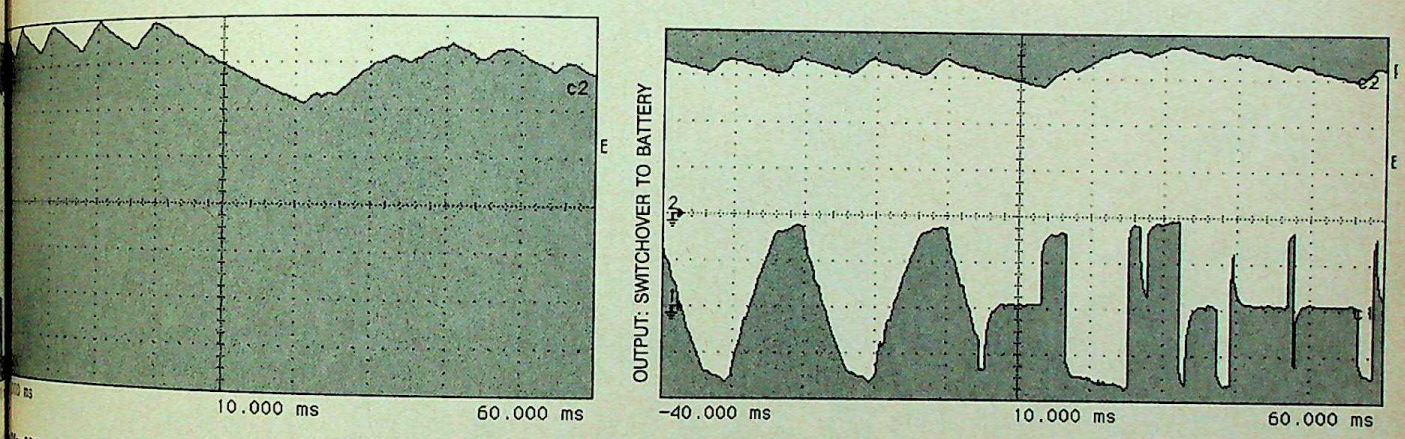
Good performance, but lacking in output regulation

THE SPECS

MAX 625 SLK. A heavy 625 VA off-line UPS available in two models—normal and sleek. Float voltage is within limits. Poor regulation. Optional external batteries.
Rs 8,500. RQS #E0528
Ranking: 12 (of 17 tested)
Efficiency: 81% at 304 W
Switchover time: 7.8 ms
Backup time: 9 minutes

The Max 625 VA UPS comes in two models, the SLK (sleek) and the NRL (normal). The NRL, has three outlets and with a flat, rectangular body, manages a very low profile despite a larger foot print you can slip it under your table. The SLK's name is a misnomer. It has a large, boxy body that despite a smaller footprint is difficult to store under the tables and has only two power outlets. You also run the risk of accidentally switching it off. Other than these, there was no apparent differences between the two models' performance. For the ratings, we tested the Max 625 SLK.

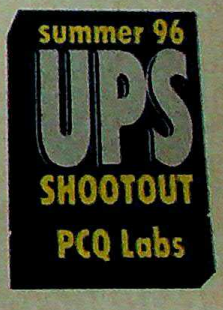
At 625 VA, this has the second highest VA rating. The front panel consists of two



Max 625 gave a switchover time of 7.8 ms and a minimum voltage at cold-start of 258 V

switches marked Mains and Inverter, and two corresponding LEDs. The Max UPSes have the facility of connecting external batteries, and thereby increasing the back up time. During our tests, we did not use external batteries.

Interestingly, the Max is one of the few UPSs where the battery float voltage is within allowable limits. It also lowest price per VA



CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri and Sarayu Trust. Funding by MoE-IKS

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

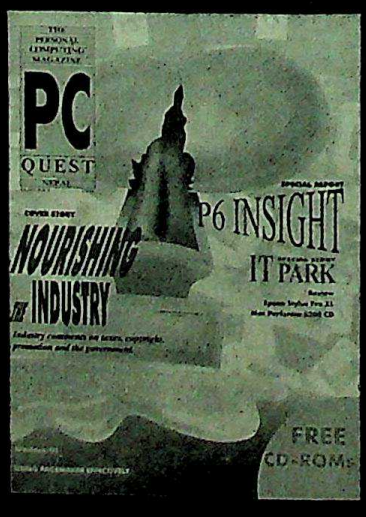
NEPAL

PC QUEST LAUNCHED IN NEPAL

PC QUEST, THE FASTEST GROWING COMPUTER MAGAZINE, HAS BEEN OFFERING INFORMATION ON THE LATEST PRODUCTS AND TECHNOLOGIES FOR THE LAST SEVEN YEARS. A **FOUNTAIN OF INFORMATION** FOR THE IT PROFESSIONALS, **PC QUEST** HAS PLAYED A MAJOR ROLE IN THE POPULARISATION OF COMPUTERS IN THE COUNTRY.

WITH A VIEW TO REACH MORE PEOPLE, **PC QUEST** HAS GONE **INTERNATIONAL.** (BEGINNING WITH NEPAL).

IN A RAPIDLY DEVELOPING AND GLOBALISING NEPALESE I T SCENARIO, WITH MAJOR MULTINATIONAL VENDORS SELLING THEIR PRODUCTS THERE, THE NEPALESE MARKET, IS DEFINITELY HOTTING UP. THE PROMISE



OF MASSIVE INFORMATION EXPLO

MAKES A CREDIBLE, COMPREHE

AND UNBIASED MEDIUM A NECES

TO CATALYSE THIS GROWTH PRO

OBVIOUSLY, **PC QUEST** IS THE

AND ONLY MAGAZINE WHICH C

FULL JUSTICE TO THIS SE

ENDEAVOUR.

THE NEW MAGAZINE AIMS AT

LOCAL USERS AND VE

INFORMED ABOUT THE LATEST

PC QUEST NEPAL COVERS NOT O

WILL RESEARCHED TECHNOLO

INSIGHTS AND PRODUCT REVIEWS,

ALSO INCLUDES ISSUES RELATED

INDUSTRY, MARKETS AND POLI

NEPAL.

NEPAL IS JUST THE FIRST

PC QUEST INTENDS GOING TO

PLACES TOO.

FOR FURTHER DETAILS CONTACT:
D-14, PANCHSHEEL ENCLAVE,
NEW DELHI-110 017
PH.: 6433999, 6435999, 6413938

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Guardian Sleek 250VA

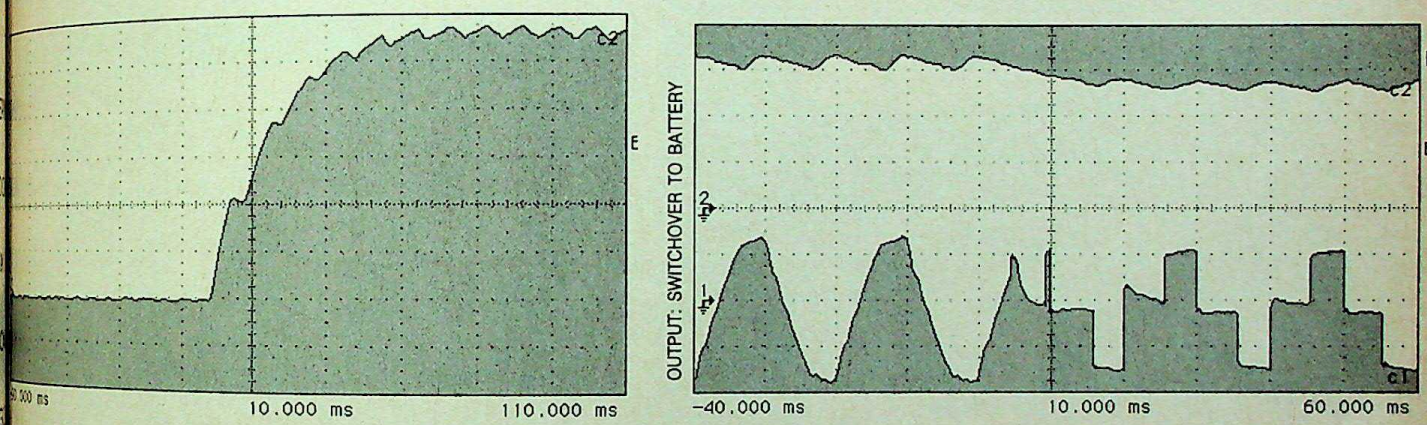
The Sleek 250 VA has a high switchover time and low efficiency

THE SPECS

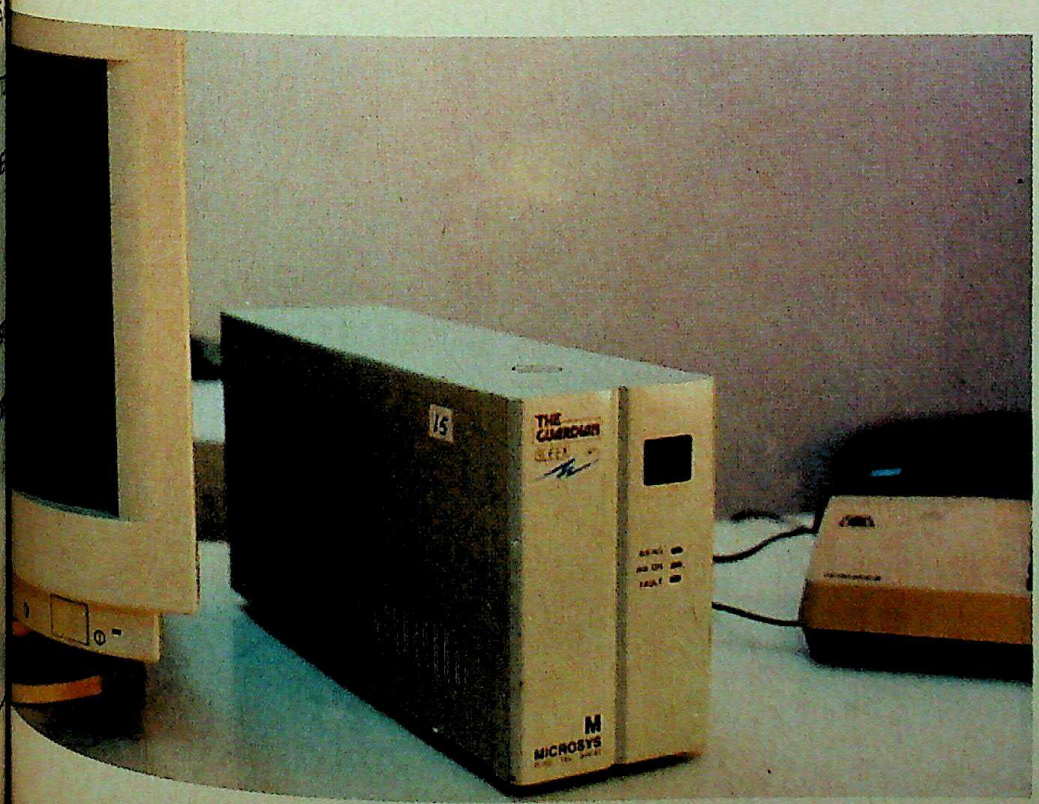
Guardian Sleek 250VA. Rather heavy for a sub-300 VA offline UPS, but lacks heavyweight electrical performance. Two outlets, and provision for software control (not tested). Rs 7,500. RQS #E0530
Ranking: 10 (of 17 tetsed)
Efficiency: 79% at 130 W
Switchover time: 12 ms
Backup time: 10 minutes

The Sleek 250 VA looked exactly like its 500 VA sibling (ranked third), with the same all-metal case, and front and back panels. The unit has a single On/Off switch with three LEDs on the front, and two three-pin sockets on the back plate, along with an RS-232 port and a reset switch. The only real physical difference is that the 250VA is lighter.

It would have been among the top three, but for its switchover time. In all other tests, it performed above average. And in fact this is one of the few units whose battery float voltage is within acceptable limits. Price-wise, it gives good competition to the other 250 VA models, but lags behind higher rated models in cost per VA.



This model logged a longer than average switchover time but was able to cold-start a 250 VA load



The Sleek was able to cold-start a 250 VA load. And when short circuited, it tripped with fault indication on, and then switched itself back on when the mains power was restored. The efficiency of the Sleek was a low 79 percent at 130 watts.

summer 96 UPS SHOOTOUT PCQ Labs

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Guardian Sleek 500VA

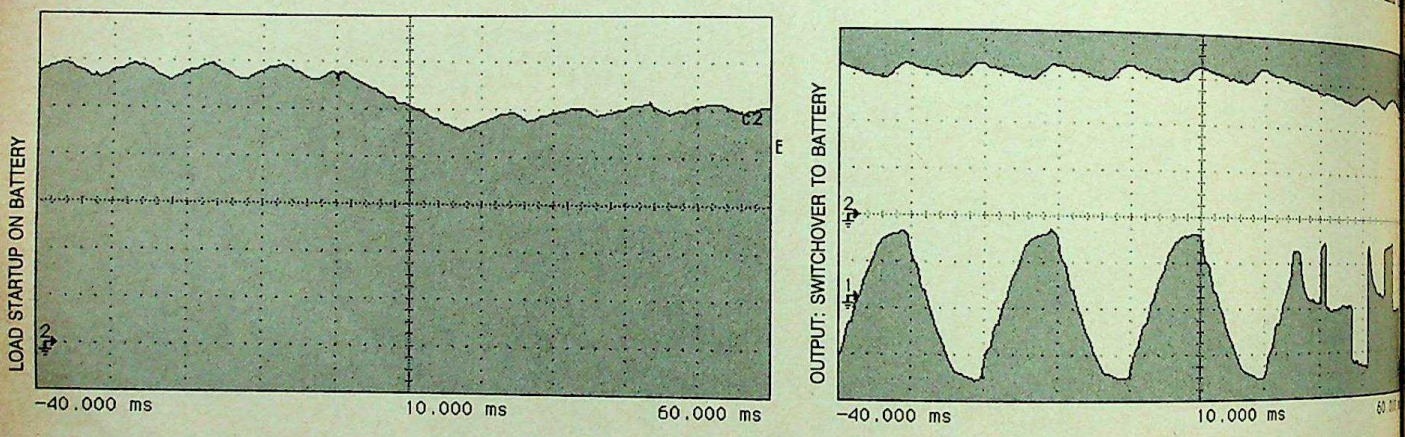
The Guardian's excellent performance was let down by its backup time

THE SPECS

Guardian Sleek 500VA. A 500 VA UPS with ... efficiency and very low back-up ... Provision for software control and ... Better value than its 250 VA version ... 9,500. RQS #E0537
Ranking: 3 (of 17 tested)
Efficiency: 76% at 230 W
Switchover time: 4.2 ms
Backup time: 4 minutes

Performance-wise, the Guardian 500 VA gives a better switchover time (4.2 milliseconds as against 12 milliseconds for its sibling), but lesser backup time (4 minutes as against 10 minutes for 250 VA). It is this brief backup time and low efficiency of 76% at 230 W that let the Guardian 500 down.

The 500's switchover time is marginally better than both the Nissan and the Accure, and like them its battery float voltage too is outside limits. Although it cold-started a 250 VA load, the usefulness of this is doubtful ... a low backup time, as the Guardian ... only one 12 V, 7AH battery ... Datex has two 12 V, 7 AH ...



Excellent switchover time and a successful cold-start added to performance

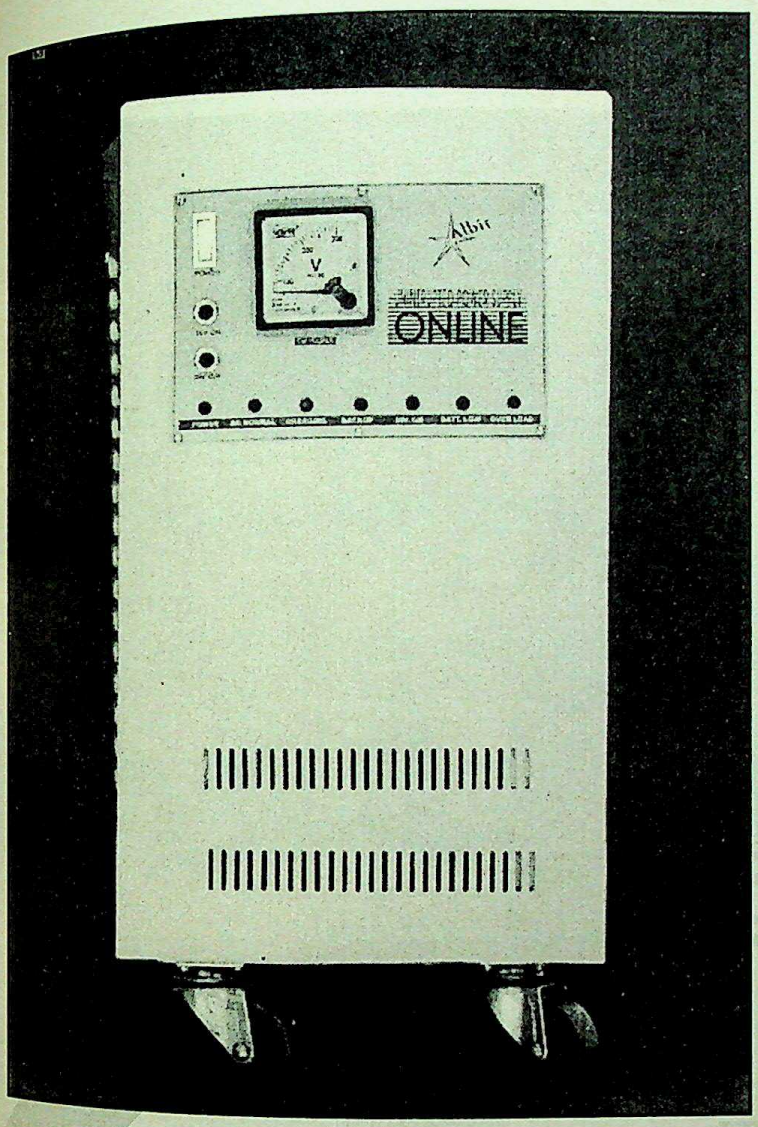
Nissan two 12 V, 11 ... batteries, hence the ... backup time.

Pricewise, the Guardian ... Sleek 500 gives better V... money than the Du... Nissan or even its own ... VA sibling.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

COMPETITIVE PRICE, QUALITY INTEGRITY & RELIABILITY ARE YOUR BEST WARRANTY



Computers & Micro-processor based systems need protection from electrical line disturbances like Voltage Spikes, Transients, Surges, Sags, Power Glitches, Severe Voltage Fluctuations & Total Power Failures. These Electrical Line disturbances are harmful to your PC, which if allowed by an inefficient & sub-standard UPS into your sophisticated systems, may damage your equipment or cause total loss of your valuable data. Obviously you would ask for the best solution for these problems.

Albit Electronics Pvt. Ltd. is a manufacturer of quality On-Line & Off-Line UPS, CVT & Inverters. We are a fast growing company & within a short period of our establishment we have acquired a good market reputation. Why? All Albit products are tried and tested to ensure faultless performance. Thanks to our all-out R&D efforts and stringent QC system that keep our products way ahead of the others. Albit products are available in a much wider range to be chosen from.

ON-LINE UPS	**- 500 VA - 10 KVA**
OFF-LINE UPS	**- 250 VA - 1250 VA**
CVT	**- 50 VA - 5 KVA**
INVERTER	**- 250 VA - 5 KVA**

Albit

Albit Electronics Pvt. Ltd.

20, BASEMENT, SHAKTI NAGAR EXTN. DELHI-110052
L: 7428038, 7428039, 7218038 TELEFAX : 7419039

UPS CVT INVERTER

ABHINAV ADVERVERTISING. PH.: 2919099

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Perfect Opti UPS 420 E

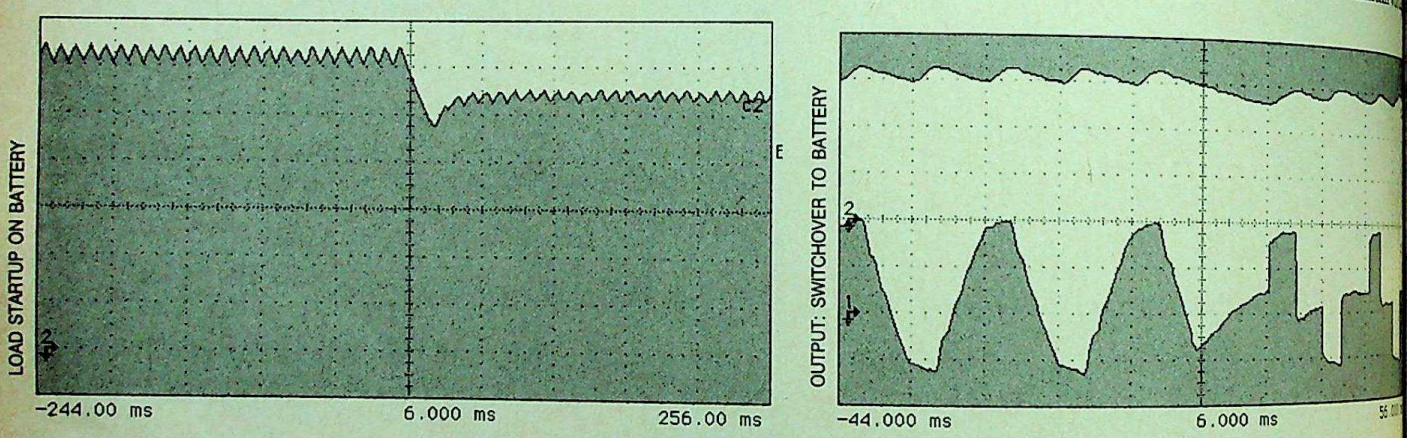
Despite good performance, a high switchover time affected ranking

THE SPECS

Perfect 420E. A line interactive UPS with ... switchover time but offset by good ... time, software controls and low ... It was able to cold-start a second ... load. Rs 9,990. RQS No #E0535
Ranking: 5 (of 17 tested)
Efficiency: 89% at 174 W
Switchover time: 10.6 ms
Backup time: 8 minutes

The Perfect Opti UPS 420 E is a compact model with designer looks. There is a single push button switch and LED on the front panel marked Test/Silence. On the back there is the RS 232 port, four dip switches, an on-off switch, two outlets and a switch marked 3 AMP (we are not sure what it was for, since we could not turn it on and off.)

The switchover time was on the higher side at 10.6 milliseconds, and the float voltage was on the lower side. Otherwise the performance was good with a backup time of 8 minutes ... unit was able to cold-start a second ... VA load, providing it a minimum ...



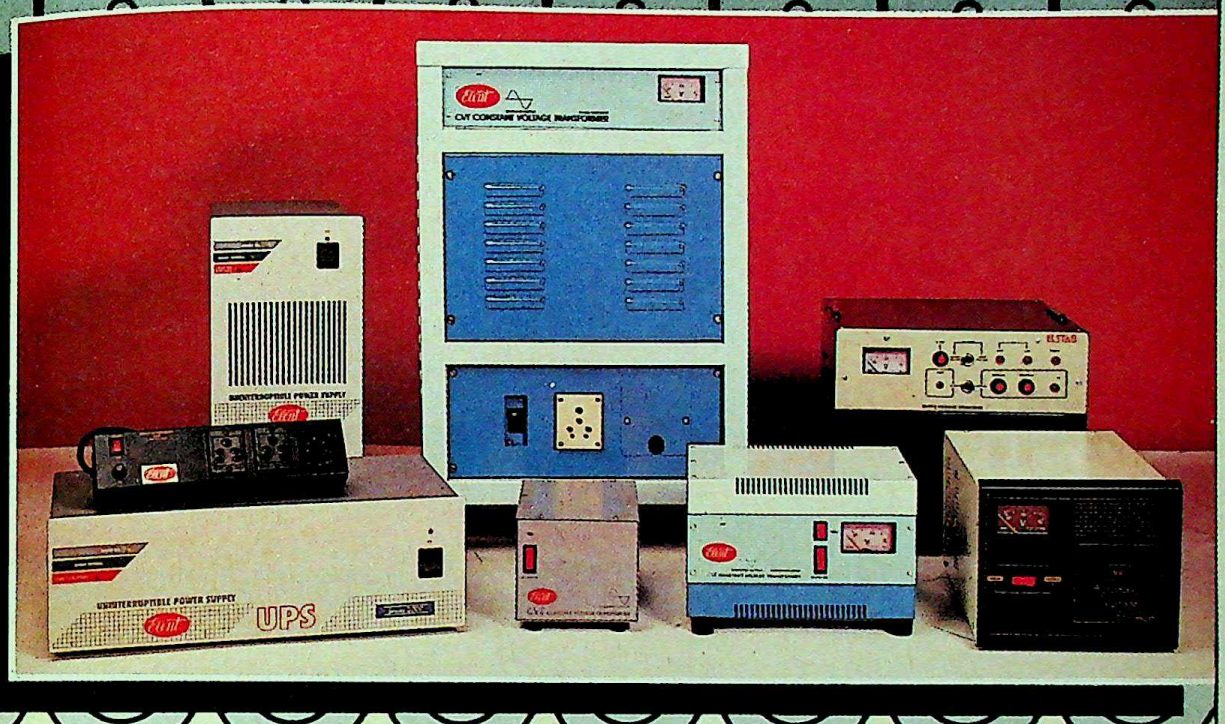
The Perfect 420 E was able to switch on the 250 VA load, but switchover time was on the higher side.

of 239 volts. The ... showed good efficiencies ... 89 percent, but at a very ... 174 watts. It survived ... short circuit, and recover ... by itself on the remov ... the short circuit, to resume ... functioning normally. ... was one of two UPSs ... manage this.

CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Happiness is not always a state of mind



While computing it is always the state of main-line power

While computing don't let the state of main-line power dictate your state of mind. Let Elent's state-of-the-art range of Power Conditioning equipment -

HIGHEST QUALITY Elent

UPS & CVTs in a wide rating - take care of all the hassles and let you carry on totally worry-free. Get Elent on your side and ensure your happiness.

ELECTRONIC ENTERPRISES

DSIDC Complex, Okhla Phase I, New Delhi 110020 Ph.: 6810515, 6818608 Fax : 91-11-6818608 Grams : STABELENT

Authorized Dealers:

ORTH •Chandigarh: 702395, 704138 •Faridabad: 289367, 289902,218696 •Hissar:76930, 79416 •Karnal:252769 •Shimla: 78438,204020, 26026 •Palampur (H.P.):31059 •Jammu: 44773, 548854, 43547, 546805, 533154 •Srinagar:72528,52056 •Ambala:643122 •Amritsar: 555470, 26852 •Bhatinda:210701 •Jalandhar:227124,252975 •Ludhiana:31856,400765,475568,471402 •Patiala:71849 •Agra:52580,54760,51313 •Allahabad:609192 •Bareilly:78585, 473033, 478707, 470838 •Dehradun:28016 •Ghaziabad:717131, 714617,718612 •Gorakhpur:333598, 337898 •Kanpur:319056,319916,210130,210993 •Moradabad:317769 •Muzaffarnagar:405123 •Saharanpur:3440 •Varanasi:57212,57254, 352717,352241

ENTRAL •Bhopal:555955,553030 •Gwalior:325965 •Indore:432902, 550649, 554080,494499,400455 •Jabalpur:20086, 26395 •Jhansi:444053, 42207 •Raipur:535817, 533882 •Ratlam:20088, 31088 •Sagar:22234 •Satna: 3625,2097 •Ajmer:32988 •Alwar:71330 •Bhilwara:26216 •Chhorgarh: 42468, 40672 •Jaipur:366862, 369818 •Jodhpur:27958 •Kota:20952 •Udaipur :413311

AST •Guwahati: 31250, 540845 •Jamshedpur: 428381 •Patna: 230007 •Ranchi : 205795 •Imphal: 310783 •Shillong:223949, 222847, 220280, 25817 •Calcutta:298295, 297175 •Darjeeling:2040 •Siliguri:430146 •Berhampur (Orissa): 203187

EST •Goa: 223712,228644 •Ahmedabad:6638575,460883 •Rajkot:42955 •Jalgaon: 28470 •Vadodara: 338039,341364, 557542 Chandrapur: 32101, 32662 •Akola:40781, 28710 •Amravati:74105 •Bombay: 5554830, 5555218 •Nagpur: 526862 •Nasik:579510 •Pune: 334958, 26690 •Kopargaon: 23206, 22168 •Ulhasnagar: 550401, 551402

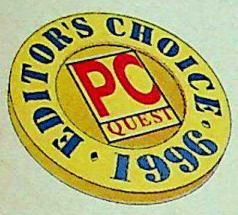
OUTH •Belgaum:32482 •Madras: 8256893, 8277729, 458664, 453512, 512808, 5230195 •Madurai:31615, 35533 •Pondicherry:36446, 38960 Mysore:448271 •Tirupur:28790, •Trichy: 48400 •Port Blair (Andaman):30873 •Hyderabad:216850 •Vijaywada:72217,77248 Srikakulam:547131, 53555 •Bangalore: 5591843, 8396561,5530791,5531841 •Mangalore:458852 •Cochin:368461 •Kollam: 204317, 26415 •Coimbatore:231736,232087

For Dealers in Delhi, please contact our Office

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Nissan 625 M AVR



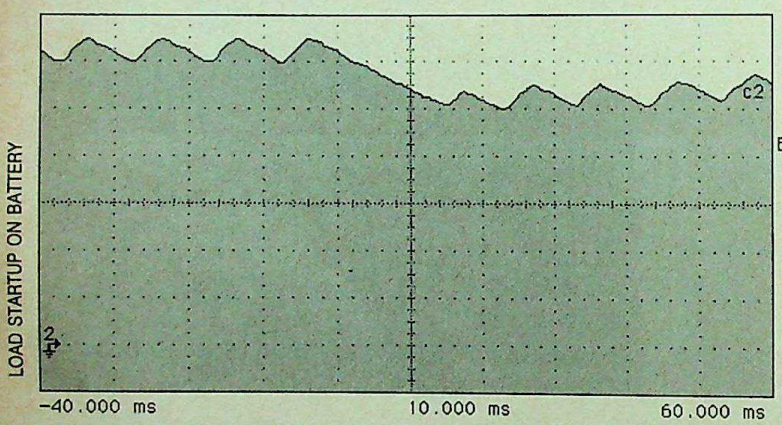
Impressive backup and performance make up very good value

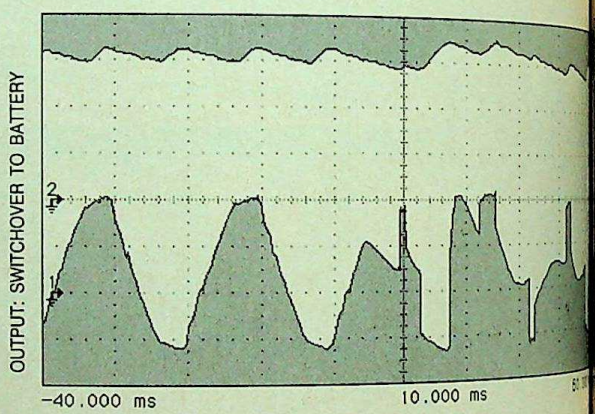
The Nissan 625 M is a 500 VA UPS with impressive performance and was able to cold-start a 250 VA load. It was the only one to give the Accure a run for its money on backup time. Efficiency was slightly lower at 78 percent, and the battery float voltage was not within acceptable limits. But of the 17 systems ranked, only five had float voltages within limits. The number 625 is a misnomer and doesn't stand for the VA rating as you would expect.

In a head to head competition with Datex, the number one, the Nissan [illegible] out on minimum output voltage. It is higher on cost per VA and cold-start [illegible] not enough to make up the gap. It [illegible]

THE SPECS

Nissan 625 M AVR. This 500 VA UPS [illegible] in at 15 kg, but matched [illegible] performance. The only area [illegible] the battery float voltage, which was [illegible] acceptable limits. Rs 9,995. ROS [illegible]
Ranking: 2 (of 17 tested)
Efficiency: 78% at 283 W
Switchover time: 5 ms
Backup time: 17 minutes





The Nissan 625 has good switchover time and a clean cold-start for a 250 VA load

262 V during cold start [illegible] VA load. It also achieves fairly fast switchover [illegible] milliseconds.

On the back, there [illegible] four output sockets, provision for additional external batteries, fuses for the mains and external batteries, and an RS-232 port, all neatly labelled. The control software is DOS based.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Synergy Smart Power 625

A long switchover time and low backup time affected its position in the shootout

THE SPECS

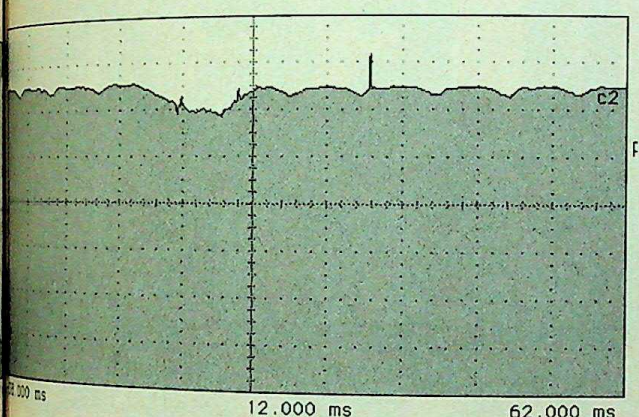
Smart Power. Line-interactive 625 VA UPS with a long switchover time and low backup. Rather low efficiency. Optional software control (not tested). Rs 11,000. RQS #E0524
Ranking: 14 (of 17 tested)
Efficiency: 78% at 250 W
Switchover time: 12 ms
Backup time: 8 minutes

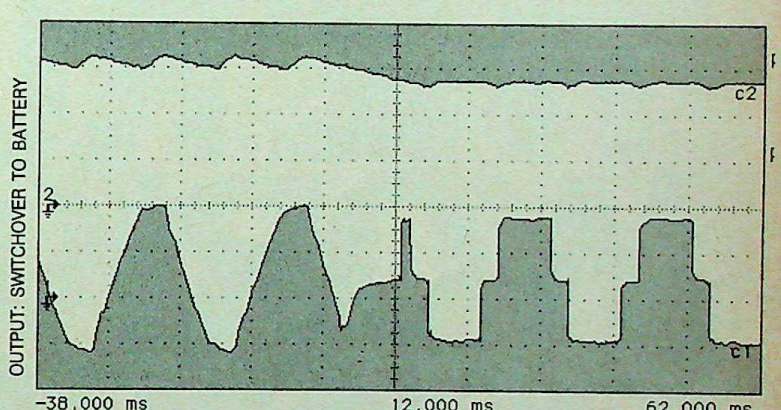
The Synergy Smart Power 625 has a simple front panel with LED level indicators for charge and load levels. There is an RS 232 port for software control and shut down on the back panel.

The unit tested gave low efficiencies of 78 percent at 250 watts. Although this has one of the highest scores in cost per VA, electrical performance did not match up. The Synergy Smart Power was pulled down hour list due to its limited backup time, large switchover time, and high float voltages.

Cold-start performance was very good, with a second 250 VA load.

Overall, though this UPS is cost-effective in terms of rating, it doesn't perform well enough to recommend it very highly.





The Smart Power has a relatively high switchover time, but its cold-start performance is admirable

summer 96 UPS SHOOTOUT PCQ Labs

CC-0. IS Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TRUST DIGITAL AND ORACLE TO REWRITE THE RULES OF WORKGROUP COMPUTING:

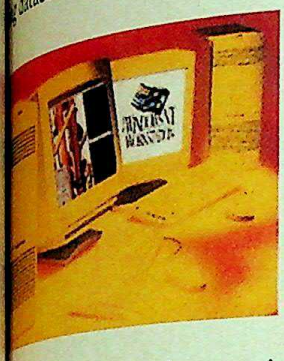
- ✓ Better performance for a lower price
- ✓ More advanced the technology, easier the usage
- ✓ Flexible / Scalable today yet operational forever

Alpha, Digital, the DIGITAL Logo are trademarks and WHATEVER IT TAKES is a service mark of Digital Equipment Corporation. Digital Equipment (India) Limited, (a subsidiary
Pro Processor Logos are trademarks of Intel Corporation.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

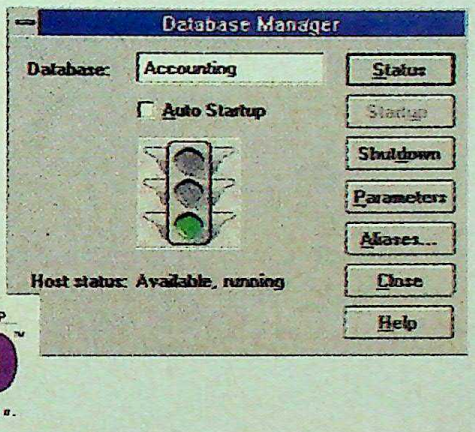
Digitized by Arya Samaj Foundation Chennai and eGangotri

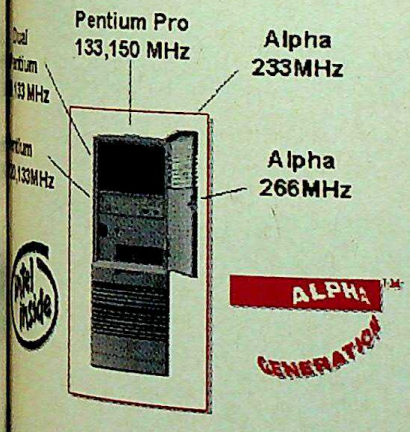
...ital NT Dream Machine Oracle Server rewrites the rules of workgroup computing. And that's not surprising, ...ring it comes from Digital - the company that pioneered 64-bit computing - and Oracle - the world's ... database company.



Better performance for a lower price : In fact, you won't get a server that's more robust and gives you better performance. At a price that starts as low as Rs.3.26 lakhs, the Digital NT Dream Machine with Oracle 7 Workgroup Server is truly unbeatable.

...dvanced the technology, easier the usage: ... 7 Workgroup Server comes pre-configured ... your most demanding workgroup needs. ...fault database structures and tuning ...ters are pre-defined, making installation ...e child's play. And its graphical tools ...e functionality with point-and-click ...





Flexible / Scalable today yet operational forever: As your needs grow, the Digital NT Dream Machine Oracle Server grows with you. For the same Oracle runs on any system. From a notebook to huge enterprise servers. You can plug your workgroup into the enterprise-wide computing architecture, effortlessly. What's more, if you feel the need for more computing power, the NT Dream Machine can be upgraded by a simple replacement of the CPU. So if you start with a 100 MHz Pentium Processor-based system, you can upgrade all the way to a 266 MHz 64-bit Alpha processor tomorrow.

...s courtesy Digital and Oracle - the people who write and rewrite the rules of workgroup computing.

...ecial offer on the Digital NT Dream Machine Oracle Server, *fax Ravi Chauhan at 080 3374601 or e-mail to* ...-apav01.enet.dec.com

RACLE®

...g the Information Age

digital™

WHATEVER IT TAKES℠

...l Digital Park, 92 Industrial Suburb, II Stage Yeshwanthpur, Bangalore 560 022. Oracle, Oracle 7 are registered trademarks of Oracle Corporation. Intel, Pentium, and Pentium

Pratibha/Blr/DEI

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tripp Lite BC 250

The BC 250's performance was let down by indifferent regulation

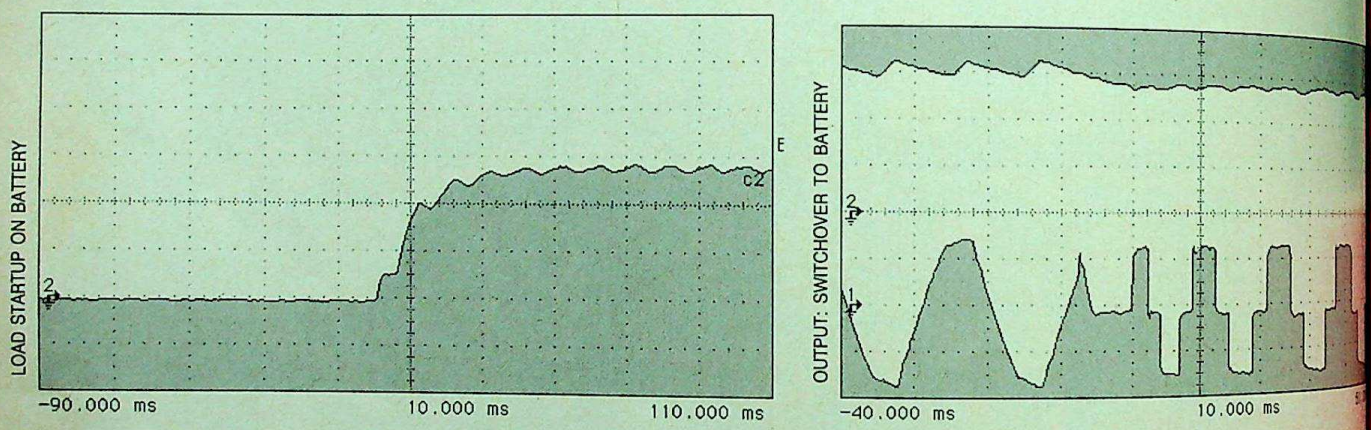
THE SPECS

Tripp Lite BC 250. Sub-compact 250 VA UPS. Simple design and operation, 2 power outlets. Unlike the other 7 models, no software control. Low regulation for Indian conditions. Rs 6,250.
Ranking: 11 (of 17 tested)
Efficiency: 95% at 140 W
Switchover time: 7.2 ms
Backup time: 12 minutes

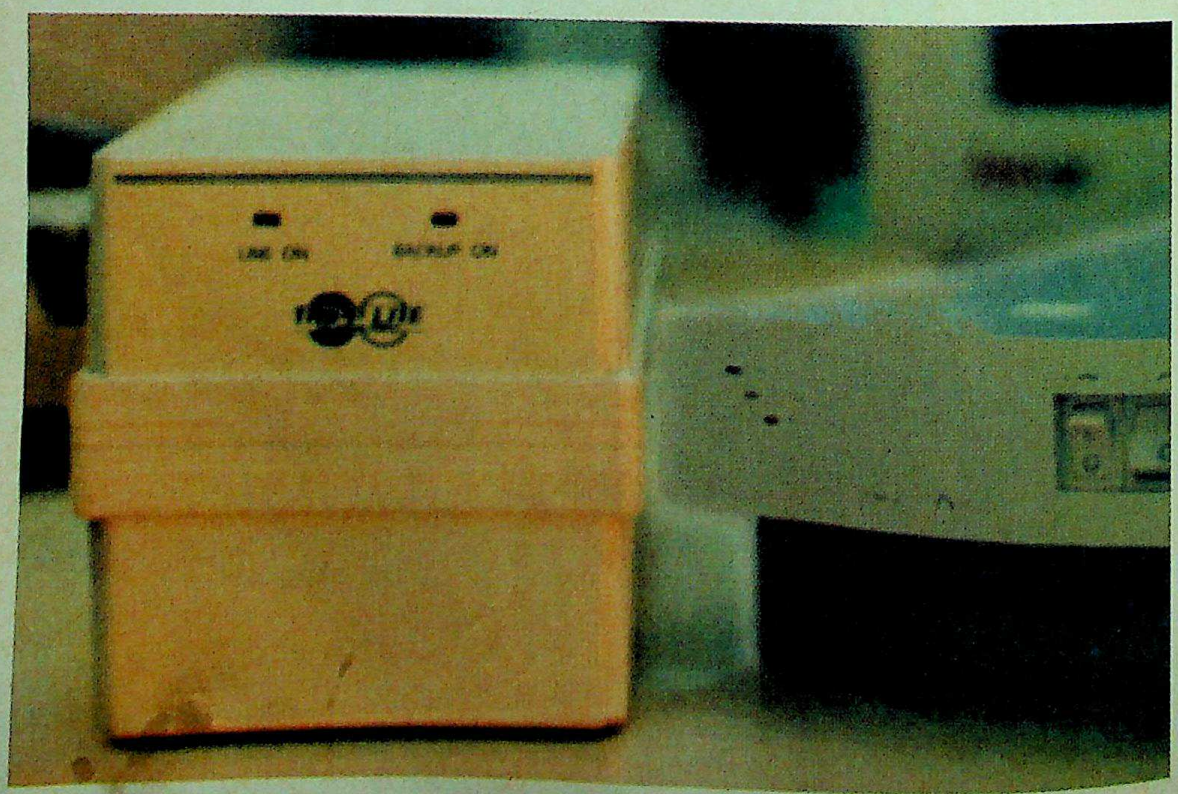
This subcompact from Tripp Lite is simplicity itself. There are no switches on the front panel, only two LEDs marked Line on and Backup on. A bit of a hunt revealed a small on-off switch in the back, nestling below the power inlet.

This is another UPS with good performance, but for output regulation. And that has resulted in losing what could have been a possible top five position.

The 250 was able to cold-start a 250 VA load, delivering a minimum voltage of 258V. Its battery float voltage [illegible] within limits. While doing the circuit test, the fuse blew (in fact the only system in which the [illegible]



Good switchover time and very good cold-start characteristics mark the Tripp Lite 250



and as no replacement were provided, we were able to complete the [illegible]

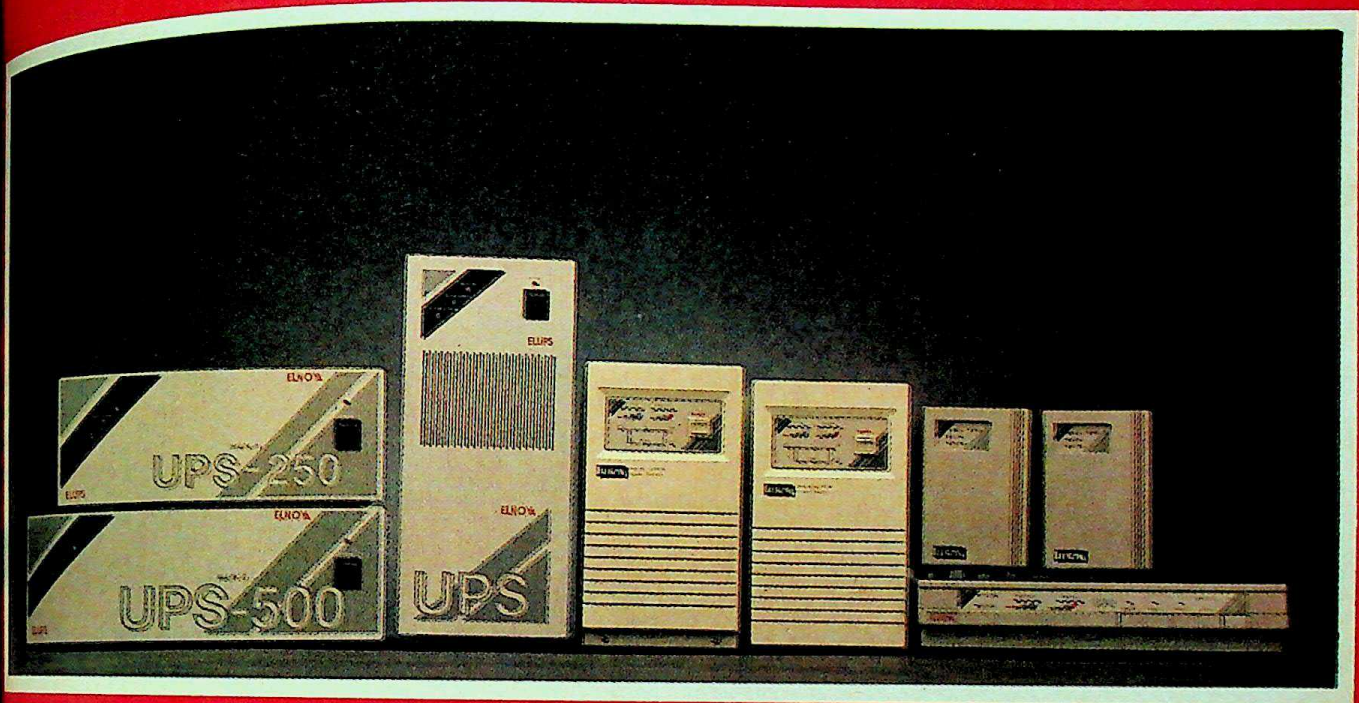
Overall, a very [illegible] UPS which is effective [illegible] mains supply is known [illegible] fairly stable.

Also very compact [illegible] desktop use.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Every year intelligent computer users save thousands of man & machine hours...



by selecting and installing a UPS system that's proved its credentials as the best for **easy computing in tough power conditions,** time and again.
Join the Elnova UPS users' fraternity.
Call the Authorized Elnova Dealer nearest to you and equip your computer before power plays truant again.

Rated on **TOP** PC Quest Users' Survey 94-95 and again in Users' Survey **95-96**

Record UPS Units sold Apr.'95 - Mar.'96 : **6282**

ELNOVA

ELNOVA LIMITED
B-165 Okhla Inustrial Area, Phase I, New Delhi 110 020
Tel.: 6810172, 6810569 Fax:91-11-6811667

Specially for COMPUTERS **UPS** *Specially for* Indian Power Conditions

For Government Organisations: Available through Super Bazar, Connaught Place, New Delhi on rate contract :Contact or call
Registered Sole supplier: M/s. Hearwell Electronics Pvt. Ltd. Ph: 6980853, 6981154,6989949, 6982937, 6989386 Fax: 91-11-6984768

Authorized Dealers:
NORTH •AGRA - 50555 •AJMER - 421230 • ALLAHABAD - 644330 •BAREILLY - 455085 •BHILWARA - 27625 •BIKANER - 61821
•CHANDIGARH-705998 •GHAZIABAD - 712839 •GORAKHPUR -336152 •GURGAON - 8340003 •HARDWAR - 450489 •JAIPUR-370111
•JALANDHAR - 260998 •JAMMU - 49053 •JODHPUR - 35830 •KANPUR - 319916,312544 •KOTA -24556 •LUCKNOW - 226576,218332
•LUDHIANA - 23800 •MUSSORIE - 631055 •MUZAFFARNAGAR - 403274 •PANIPAT - 51877 •ROORKEE - 74340 •RUDRAPUR - 84456
EAST •BERHAMPUR - 206317 •BHUBANESHWAR - 406180 •CALCUTTA-2387904, 3345156 •DHANBAD-307113 • GANGTOK- 22279
•GUWAHATI-565048, 543077, 543415 •IMPHAL - 220555, 220795 •ITANAGAR - 33376 •JAMSHEDPUR-423481 •PATNA -659453,230007
•RANCHI-315175 •SHILLONG - 220244 •TINSUKIA-20310
WEST •AHMEDABAD - 5507021 •AURANGABAD - 24637 •BARODA - 333193 •BOMBAY - 3436456 •GOA - 22468,22637
•KOLHAPUR-625665 •MIRAJ - 350910 •NASIK - 70757 • PUNE - 356818, 358618 •RAJKOT - 55426 • SANGLI - 76348 •SURAT - 649964
•THANE-5361023 •ULHASNAGAR - 541225
SOUTH •BANGALORE-3374825 •BELGAUM - 26335 •COCHIN - 310182 •COIMBATORE - 444017 •HYDERABAD - 7618609, 846863
•GULBARGA-372106 •MADRAS- 4941719, 4345634 •MANGALORE - 440921 •VIJAYWADA - 477077 •VIZAG-547131 • TRIVANDRUM -452114
CENTRAL •BHILAI/DURG - 323427 •BILASPUR - 21030 •BHOPAL - 582782 •GWALIOR-331721 •INDORE-531889 •JABALPUR-28798
•JHANSI-444507 •NAGPUR-520777 •RAIPUR - 535011

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tripp Lite Omnipro INT 450

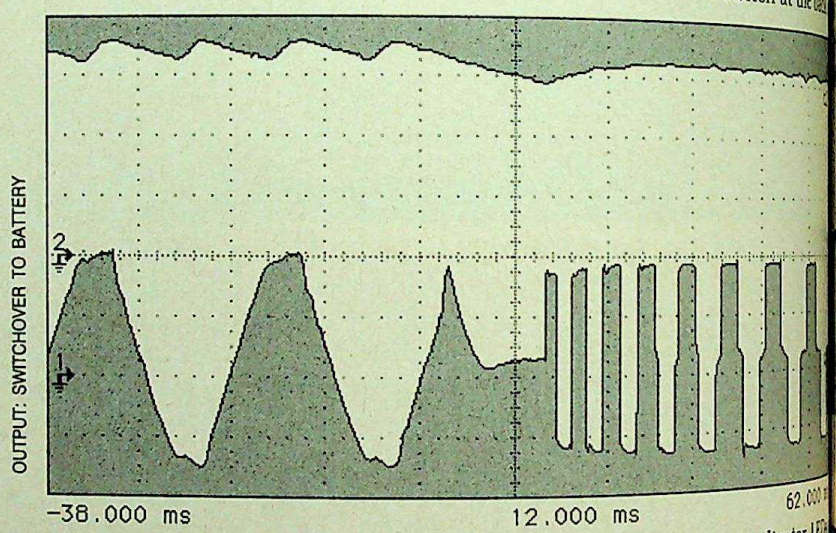
An effective UPS which could do with better regulation

THE SPECS

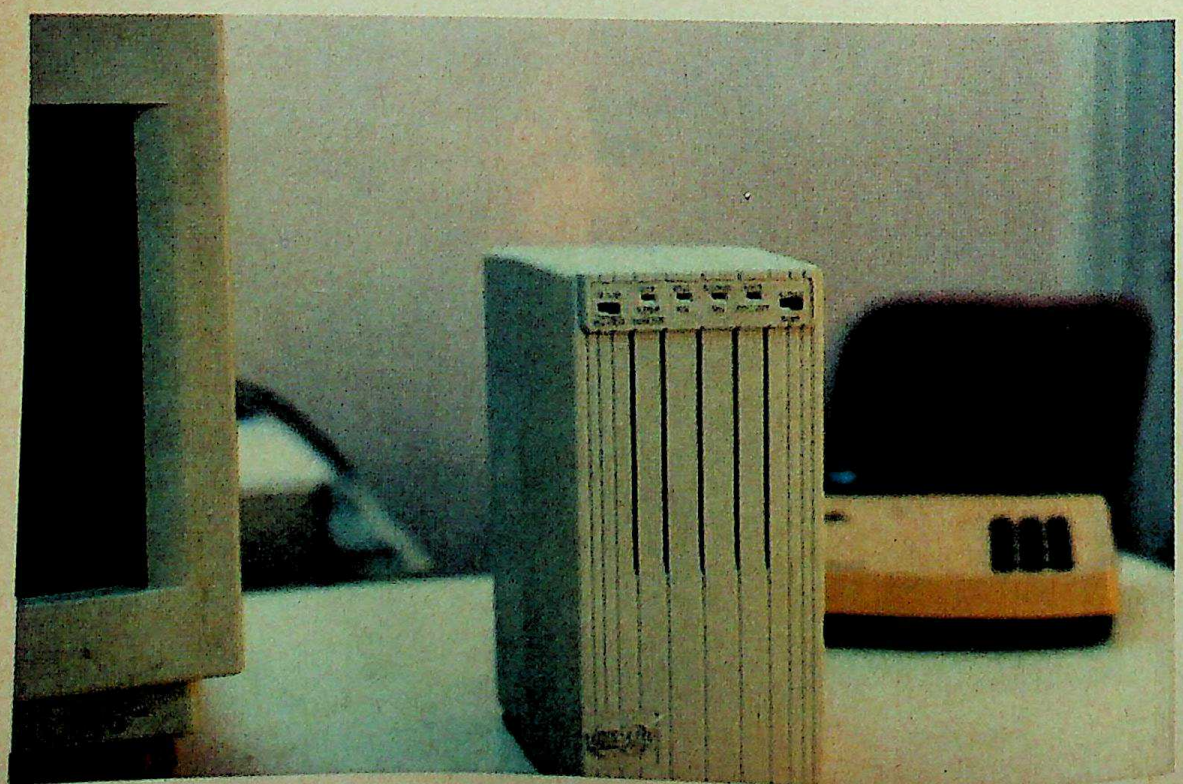
Tripp Lite Omnipro INT 450. A 450VA ... a mid-sized "tower". Three power ... Good efficiency and backup ... regulation. Optional software ... tested). Rs 10,500. RQS #E0501
Ranking: 9 (of 17 tested)
Efficiency: 88% at 259 W
Switchover time: 9.8 ms
Backup time: 11 minutes

Since ther are two UPSs sharing the number seven position, there is no number eight, and the Omnipro is ranked ninth. Incidentally, this is the highest ranked Tripp Lite and like most other western models, this one also loses points in regulation. Like other Tripp Lites reviewed, the Omnipro is also not able to cold-start a 250 VA load. It is a matter of interest that the Tripp Lites head the list as far as cost, warranty and compactness are concerned. If only they had better regulation and cold-start capabilities, the Tripp Lites would have given the winners a run for their money. Without proper regulation, they turn out to be average performers.

The system comes as a tower ... with three output sockets, an ... port and a reset switch at the ...



The Omnipro like all other Tripp Lites was unable to cold start a 250 VA load but had acceptable switchover times



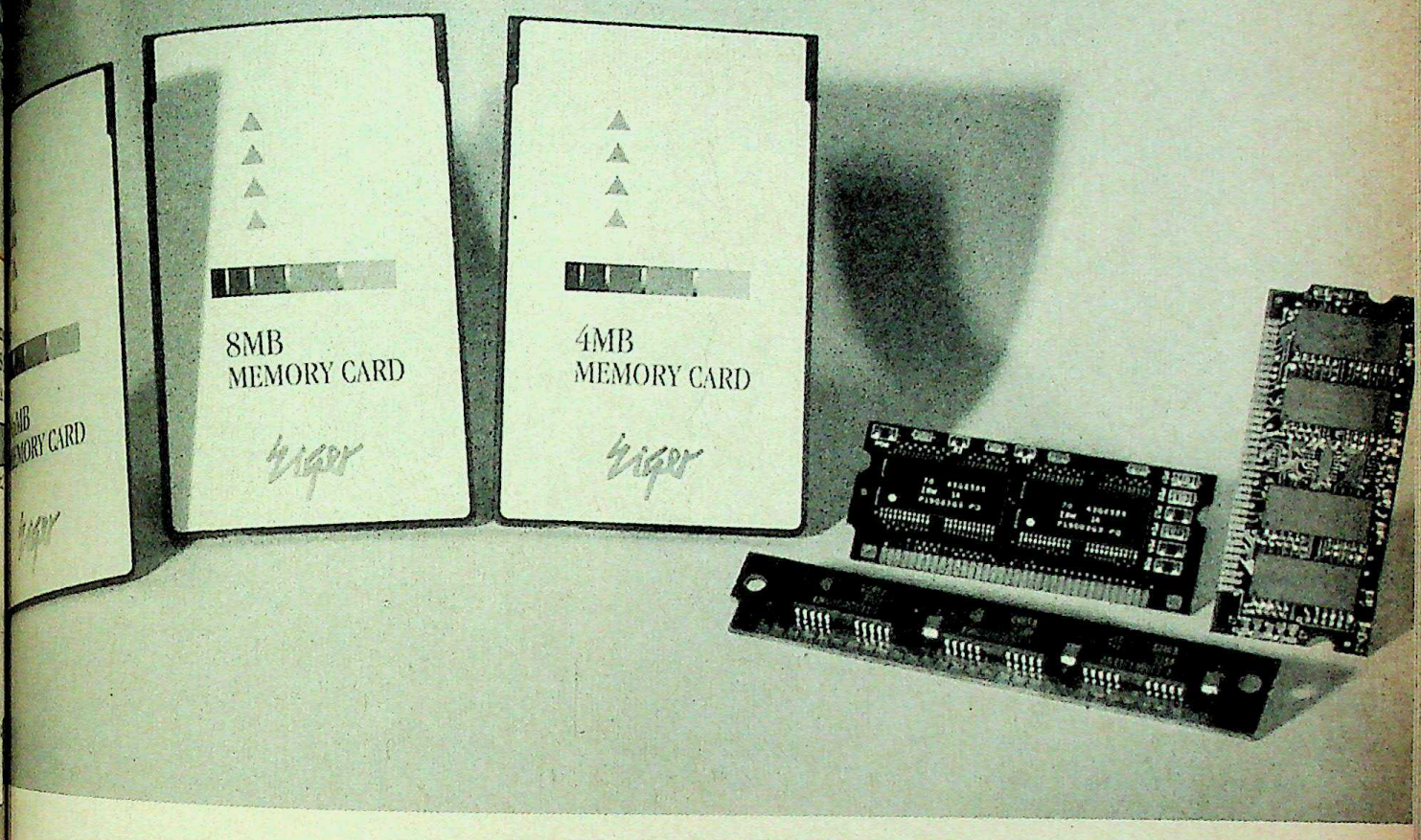
various indicator ... the on-of and test ... on the front.

The Omnipro 45... impressive efficiencies ... percent at 259 watts ... its battery float voltage ... limits. Its backup time ... minutes is very good ... ranks fourth after the ... Nissan, and Trip Lite ... on this count

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

UPGRADE MEMORY



rade Memory

mily of upgrade memory products include IC DRAM
ard and Half Card Memory, DIMMs (Dual In-Line
Modules), and proprietary memory modules.

ard Memory, DIMMs, and proprietary modules are used
ry expansion and extension in computer applications
ktop, notebook, and desktop personal computers.

edit Card Memory is fully compatible with the industry
EDEC Release 1.0 specification for DRAM cards. All
rade memory products are highly engineered, fully tested
compatibility, and covered by a lifetime warranty.

Acer · Apple · AST · COMPAQ

EPSON · HEWLETT PACKARD · IBM · NEC

Panasonic · QMS · Texas Instruments · TOSHIBA

Hytex Systems

Distributors :
HYTEX SYSTEMS PRIVATE LIMITED
Delhi : J-107, South Extension, Part I, New Delhi-110 049
Phone: 4602882, 4610601, 4647881, 4647882 Fax : 91-11-4602881
Bombay : Comtrade Corporate Centre, Cambata Building,
N.W. Wing, 5th Floor, M. Karway Road, Bombay-400 020
Tel.: 91-22-2049032, 2843100, Fax: 91-22-2874100

DEALERSHIP AND OEM DISTRIBUTORSHIP ENQUIRIES SOLICITED

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tripp Lite Omni 675

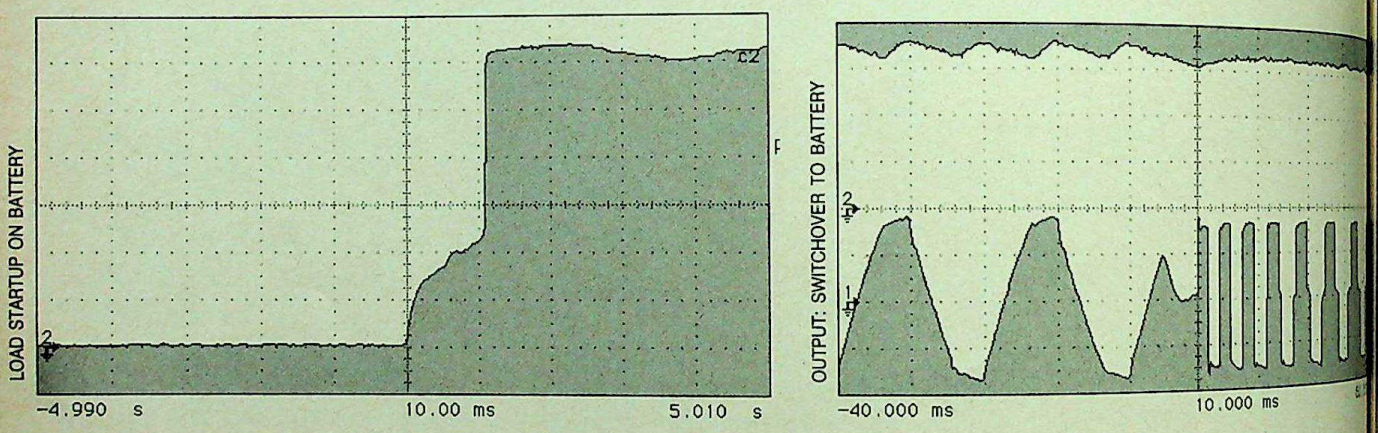
Good backup time, but poor regulation pulls this compact unit down

THE SPECS

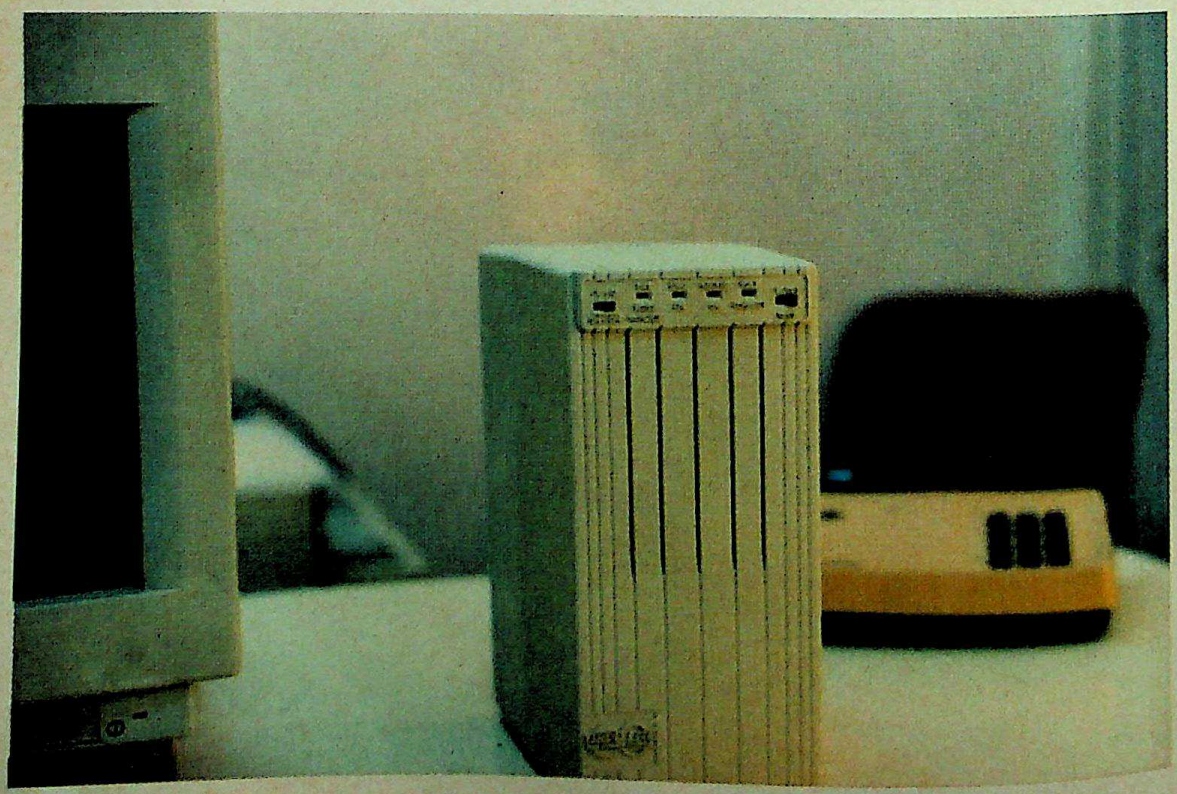
Tripp Lite OmniproINT 675: A "Tower" with three power outlets. ... regulation for Indian conditions ... to cold-start a 250 VA load. ... software control (not tested) ... RQS #E0527
Ranking: 14 (of 17 tested)
Efficiency: 86% at 273 W
Switchover time: 5.2 ms
Backup time: 12 minutes

The Tripp Lite 675 is the highest (VA) rated system in this shootout. The system comes as a tower model with three output sockets, an RS 232 port and a reset switch on the back, with indicator LED's and the On/Off and Test switches on the front panel.

As with most of the other ... imported from the west, this ... loses out on regulation. And like ... other Tripp Lite models, the ...



The Tripp Lite's switchover time is average, but the cold start is for a 250 VA load—it couldn't manage more



failed the cold start ... was barely able to ... single 250 VA load.

However, the price ... is among the best of ... UPSs tested; the ... was fast, at five milli... and this UPS disp... impressive 86 ... efficiency at 273 ... Overall, if you have ... or regulated mains ... this is a good UPS ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INTEGRATED UPS SYSTEMS

INTEGRATED
Introduces
INTELLIGENT
UPS

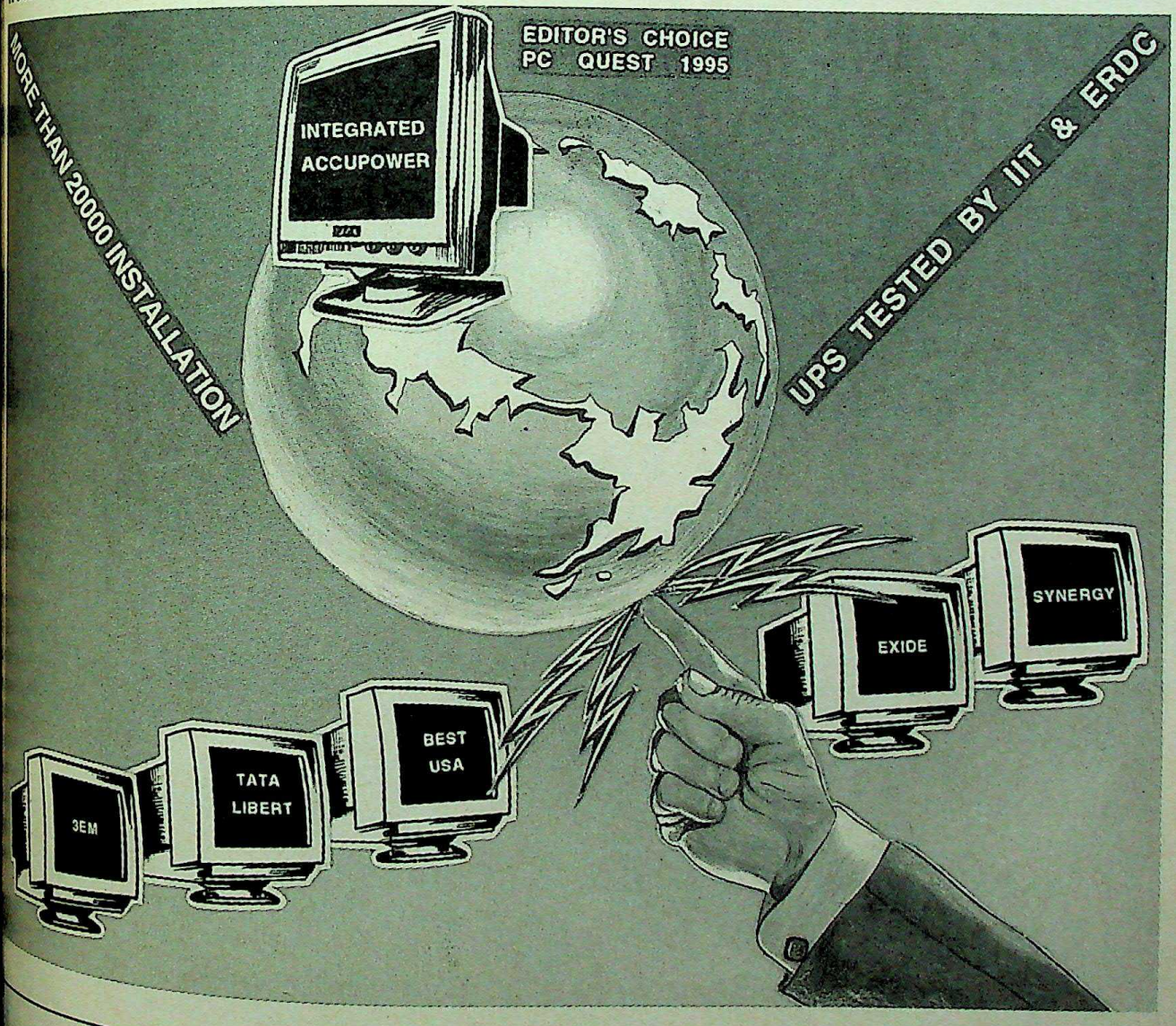
M/S VIEWSONIC
INT. CORPORATION

FEATURES & BENEFITS

* PWM/MOSEFET Technology
* Operating Frequency: 50 KHz
* Noiseless Operation
* Digital Display
* Load Monitoring
* A.C. Static Switch Transfers to mains if UPS Fails
* Sinewave Output
* Computer Interface Facility

OUR VALUABLE CUSTOMERS:

SIEMENS, ASEA BROWN BOVERI, GERMAN AIRLINES, LARSEN & TURBRO EMBASSIES, IIT - DELHI, BILT, HCL-HP, TATA UNISYS, BPCL, ONGC, IPCL, OSWALS VARDHMAN, JCT, HERO CYCLES, RAJASTHAN SPG MILLS, J.K. TYRES, GRASIM, DCM HINDALCO, RAILWAYS, CMC, AMERICAN EXPRESS, I A - SWITCH GEARS ETC. ETC



AARADHNA

INTEGRATED EQUIPMENTS LTD

1522, ANSAL TOWER, 38, NEHRU PLACE, NEW DELHI-110019
TEL:6462300,6214702, FAX : 011-6846815

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

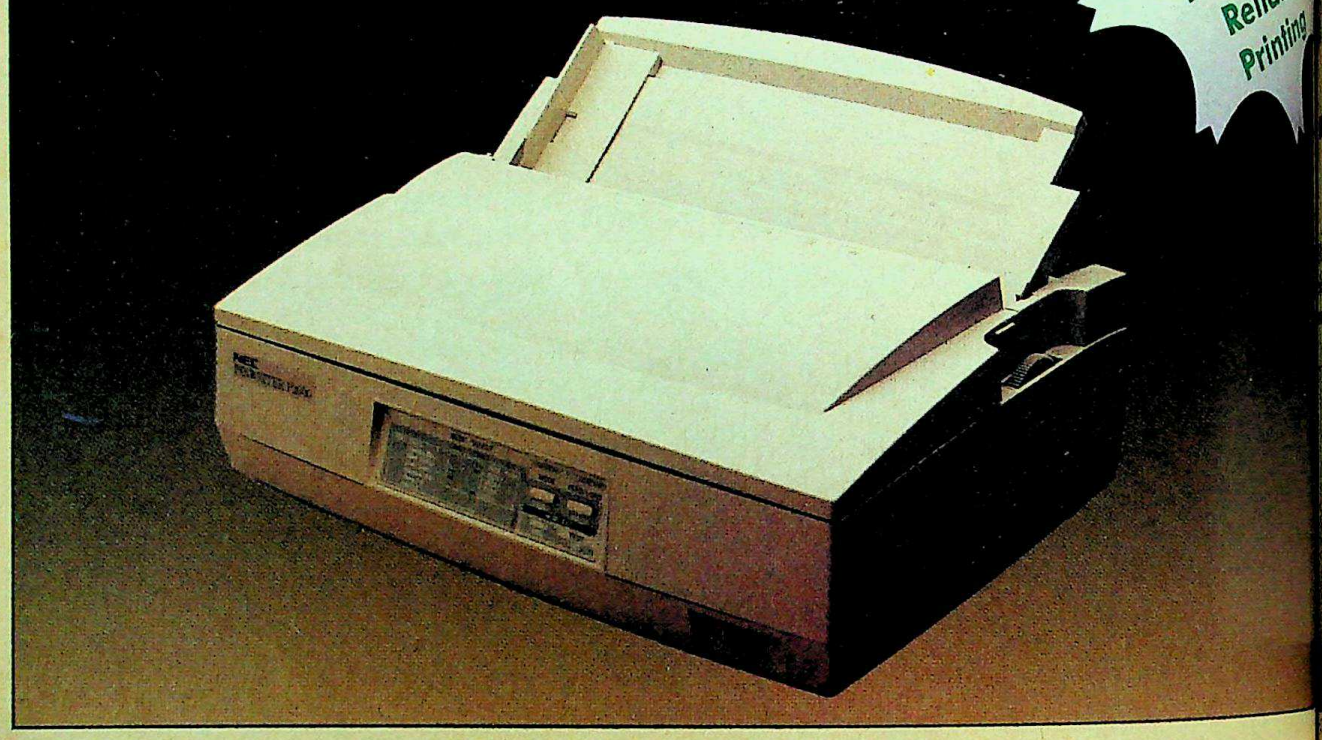
Digitized by Arya Samaj Foundation Chennai and eGangotri

YOU COULDN'T GET BETTER VALUE FOR MONEY !

NEC

NEC's P2000 PINWRITER

Its A Whole New Standard For Quality, Reliable Printing



24 PIN QUALITY AT THE PRICE OF 9 PIN DMP AND MORE

Key Features

- High Print Speed
- 24-Pin Staggered Print Head
- "Plug & Play" For Windows' 95
- Small Footprint
- Font/Pitch Selection Control Panel
- 19 Character Sets
- Multiple Forms Handling
- Paper Parking & Tear-Off
- One Year Warranty
- 200 CPS @ HS Draft 12
- 80 Columns [360 DPI Resolution]
- Interface : IEEE-1284 Nibble Mode
- Lightweight : Real Desktop Printer
- Low Noise, Sturdy Performance
- PS Font Selection
- Push/Pull Tractor/Bottom Feed
- Cut Sheet Feeder Option
- Country-wide Service Support

NEC PINWRITER P2000 24-PIN Dot Matrix Printer

DIGITAL WORLD INDIA LIMITED

AUTHORISED DISTRIBUTORS :

DIGITAL WORLD INDIA LIMITED

97, Marol Co-op. Industrial Estate, Andheri-Kurla Road,
Andheri (East) Mumbai - 400 059.
Tel. : 838 1922 / 838 5686 / 834 4600 Fax : 838 1074

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Patriot-250VA

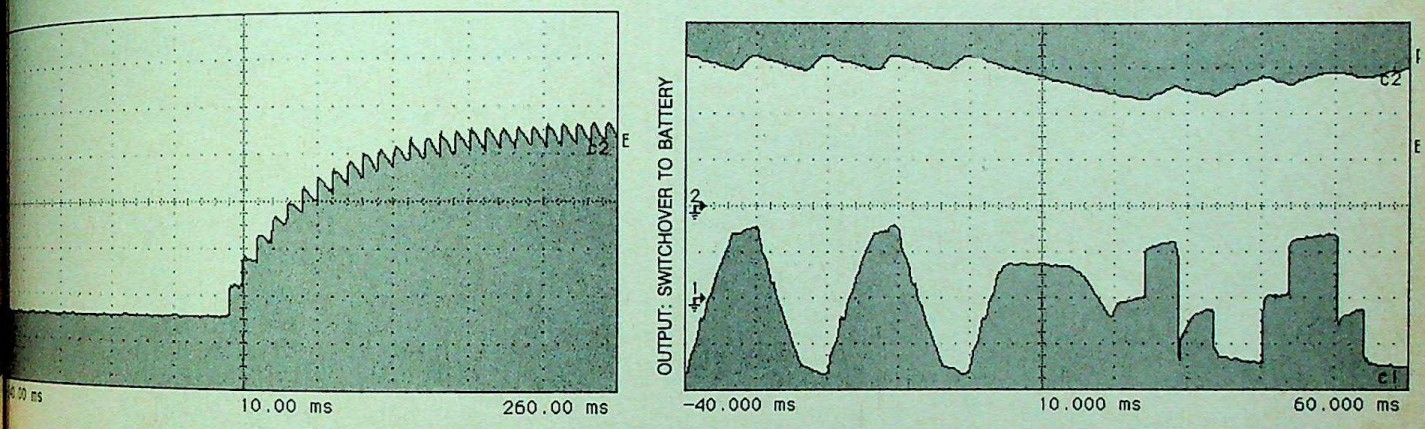
Ultra-small and good looking, but its performance doesn't match

THE SPECS

Patriot-250VA. Sleek, sub-compact 250 VA offline UPS, but its performance doesn't match its looks: longest switchover time. Two power outlets. Rs 8,950. RQS #E0526
Ranking: 14 (of 17 tested)
Efficiency: 82% at 146 W
Switchover time: 19.2 ms
Backup time: 9 minutes

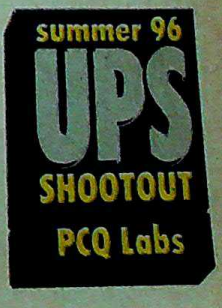
The Patriot is a sleek sub-compact model which, if looks were the only criteria, would have easily made it to the top of our ranking. The front panel is very simple and elegant with just one push button-type switch and two LEDs.

Unfortunately, the Patriot's performance just did not match its looks. It had the longest switchover time of all, a whopping 19.2 milliseconds. This UPS also failed to make the grade in maximum output voltage, cold-start and battery float voltage. Interestingly, the Patriot scored the highest in the qualitative parameters, but when it came to quantitative parameters, this is the lowest, barring one.



The Patriot 250VA has the highest switchover time and was unable to cold-start a 250VA load

Incidentally, though the switchover time is very high, it was indeed able to support a switchover of each the four PCs we tested on it, without resetting the PC. Most PCs have a sufficiently large capacitor in their SMPS units to absorb even a 20 ms switchover.



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AMI LT-600

A 600 VA offline unit that performs well, but has a low backup time

THE SPECS

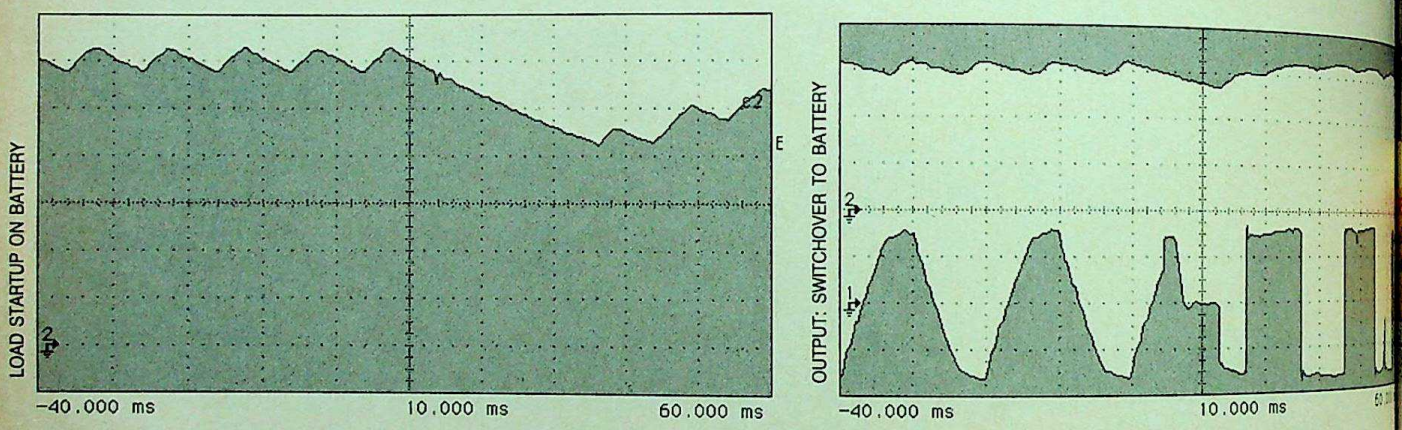
AMI LT-600. A 600 VA offline UPS with ... power outlets. Good regulation. ... the unit tested was not able to do a ... start on battery. Optional software ... tested). Good value. Rs 11,950. ... #E0536

Ranking: 4 (of 17 tested)
Efficiency: 84% at 320 W
Switchover time: 4.4 ms
Backup time: 4 minutes

The AMI range of UPSs was recently launched in India. We rated the LT 600. Like the Guardian Sleek 500, this model too lost points because of only 4 minutes of back-up time.

The LT 600 has a simple front panel with a switch and three LEDs. The back panel has two outlets and an RS 232 port.

Like the other leaders, the LT's battery float voltage too was outside the limits and its maximum output voltage was 245 V, 11 percent above 220V. Bar this, the LT gave good performance and ... able to cold start an additional 25... load, providing 231 V when already ... However, it was unable to do a ...



Apart from a fast switchover, the AMI managed to start a second 250 VA load on battery

cold start (switch on ... batteries without ... support). According ... vendor, their new ... now available, can do ... cold start. However, ... were unavailable at the ... of review, and could ... rated.

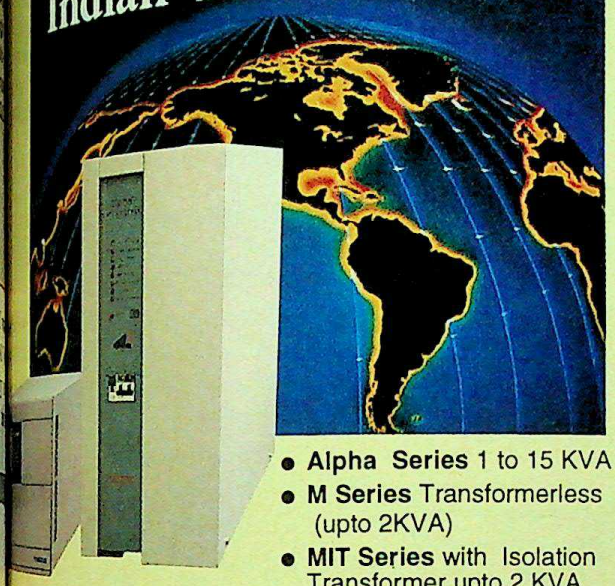
On short circuiting ... unit survived with ... overload indication ... began functioning ... when mains was resto...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

VINITEC

International quality UPS Systems for Indian Environments



- **Alpha Series** 1 to 15 KVA
- **M Series** Transformerless (upto 2KVA)
- **MIT Series** with Isolation Transformer upto 2 KVA

- **50 KHz PWM TECHNOLOGY WITH MOSFETS**
- **TRUE ON LINE SYSTEMS**

- Excellent Dynamic Stability
- Sine Wave Output. Lowest < 2% THD
- Tolerates Wide Input Voltage Fluctuations
- Indications for all Eventualities Including Temperature
- Connectivity OPTIONAL for UNIX, LAN etc.

AN **ISO 9002** COMPANY

ISO 9002

Head Office & Marketing Division :

VINITEC ELECTRONICS PVT.LTD.

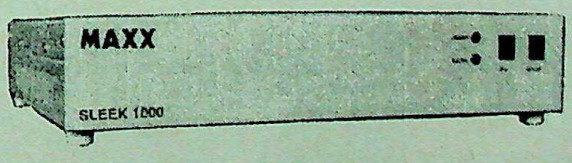
H-33, Bali Nagar, New Delhi - 110015
Ph.: 5194676, 535039 Fax : 011-5437539

SERVICE CENTRES : ● **Ahmedabad** Tel: 6577617 ● **Bangalore** Tel : 2219517 ● **Bhopal** Tel : 63455 ● **Calcutta** Tel : 4756551 ● **Chandigarh** Tel : 546285 ● **Delhi** Tel : 6949815 ● **Guwahati** Tel : 32648 ● **Gorakhpur** Tel : 337738 ● **Hyderabad** Tel : 811817 ● **Indore** Tel : 433463 ● **Jaipur** Tel : 330149 ● **Kanpur** Tel : 310811 ● **Lucknow** Tel : 212300 ● **Madras** Tel : 5353417 ● **Mumbai** Tel : 4924970 ● **Patna** Tel : 354210 ● **Siliguri** Tel : 24344 ● **Varanasi** Tel : 360232.

UPS MAXX

UPS PRICE DOWN

Nobody can beat us either in price or in quality. Prompt after sales service. One Year Guarantee



RS. 8500/- FOR 625 VA UPS WITH 2 NOS. 7AH SMF BATTERIES

Also Available On-Line UPS from 0.5KVA to 10KVA

* **Bangalore: 14/1, 2nd Floor, H. Siddiah Road Cross, Ph: 2220953 / 2243229**
* **New Delhi : A.118, Lajpatnagar - I, Ph: 6832091 / 6829478 Fax: 6832091**

OTHER PRODUCTS : SERVO STABILIZER, CVT, SILENT GENERATOR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

AutoDesk

The world's CAD standard

CAD is AutoCAD Rel 13

AutoCAD Release 13

AutoCAD Release 13 adds more features and major drafting and design capabilities than ever before. The interface takes full advantage of modern components and conventions to facilitate ease of use.

Whatever the challenge - from designing a complex machine part to a soaring skyscraper, AutoCAD provides all the tools you need to draw, edit, annotate, visualize and plot any and every detail of your design.

Sharing AutoCAD data across documents and projects and within your company is easy with Release 13. Drawing information is where it should be, shortening the project cycle. External Database links using an SQL interface associate monograpic data stored in an external database with AutoCAD drawing entities.

AutoCAD provides a comprehensive set of tools for virtually every field, including architecture, engineering, construction, (AEC), facilities management, mechanical design and geographic information systems (GIS) mapping.

Let your imagination roam in 2D or 3D

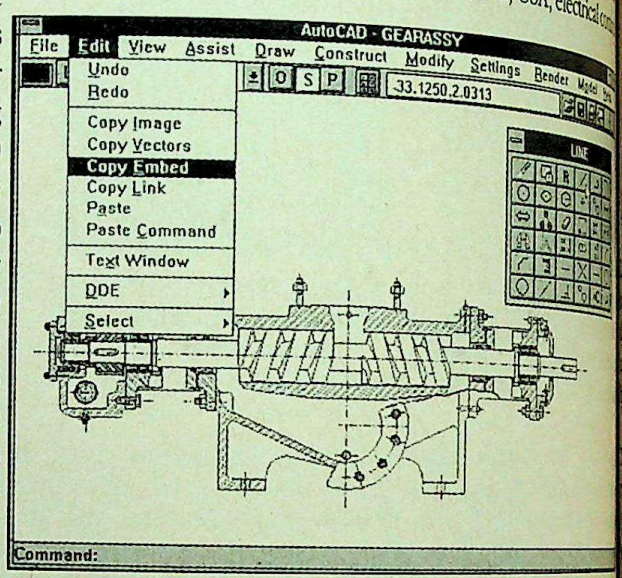
With the sophisticated rendering and visualization tools that come with AutoCAD, it's easy to conceptualize designs in 2D and 3D. Use the Region Modeler feature to extrude 2D drawings into solid 3D models. Then use the Render tool to add illumination and apply reflective surface finishes that add realism to the final drawing-and impact to presentations.

Share your work with the world

It's easy to exchange AutoCAD drawings with clients and vendors using AutoCAD software's widely supported DXF™ format.

The Binary Advantage

We are an organisation which is over 10 years old.Amongst the top 100 IT companies in India, we have over 200 people working out of a network of 10 offices, including one in the US, and a 100% software EOU near Delhi, to execute large business application projects using RDBMS and GUI development tools. We have executed several large projects like East-West Airlines, Minda Industries Limited, ICI, UNICEF, Nirula's, CRY in the recent past.



Binary Semantics is the single largest source for ***Microsoft, Lotus, Borland, SCO, Autodesk, Novell, Oracle, Sybase*** and many more software packages. With our vast experience and technical expertise we offer integrated solutions based on these products. We have recently connected over 400 branches of Corporation Bank on e-mail. Similarily we have connected Sandoz, Boots and other large organisations. We also train the end-users effectively use these products.

We are the largest provider of AutoCAD products in the country. Our CAD / CAM Division has strategic alliances for CADDS plant design software for process industries from Orange systems, USA, electrical control panel design software called promis.e ECT Inc., USA, and CrystalEyes from StereoGraphics, USA. We offer experienced dedicated manpower for handholding and troubleshooting CAD / CAM software.

With the immense popularity in multimedia products, we have added a large number of CD-ROM titles for Games, Education, CBT in our range.

So the next time you think software, think Binary, you're in safe hands.

HOPE is the Country Distributor of AutoCAD products.
Binary is the National Reseller for AutoCAD products.
For attractive offers and bundles of a vast range of products contact:

For a free colourful Software Finder covering thousands of products from round the world please write to:

Free Windows 95 and MS Mouse with every copy of AutoCAD Rel 13

(contact for more details)

All names are the trademarks of their respective manufacturers

BINARY SEMANTICS LIMITED

CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, ***TEL:*** 91-11-579 5615, 579 8069, 579 7078, 579 7084, ***FAX:*** 91-11-579 6403

OVERSEAS OFFICE: PENNSYLVANIA STATE, P.O. BOX NO. 483, P.A. - 17001, ***U.S.A. TEL:*** 717-731-8468, ***FAX:*** 717-731-9857

BRANCHES: BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, ***TEL:*** 91-080-221 5785, 224 0222, 224 1222, 224 3283, ***FAX:*** 91-080-226 5885; ***BOMBAY:*** 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, ***TEL:*** 91-022-621 0867, 626 6687; ***FAX:*** 91-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, ***TEL:*** 91-033-473 3109, 473 2101, ***FAX:*** 91-033-473 0687; ***CHANDIGARH:*** 14, HOTEL CHAMBERS, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, ***TEL:*** 91-0172-706722, ***FAX:*** 091-0172-706043; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY SECUNDERABAD - 500 026, ***TEL:*** 91-040-773 0399, ***FAX:*** 091-040-773 2811; ***PUNE:*** AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE 411 030, ***TEL:*** 91-0212-44 8063, 43 2352, ***FAX:*** 91-0212-47 7829; ***MADRAS:*** 675, ANNA SALAI, 1000 LIGHTS, MADRAS - 600 006, ***TEL:*** 91-044-852 4438, ***FAX:*** 91-044-852 4112

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

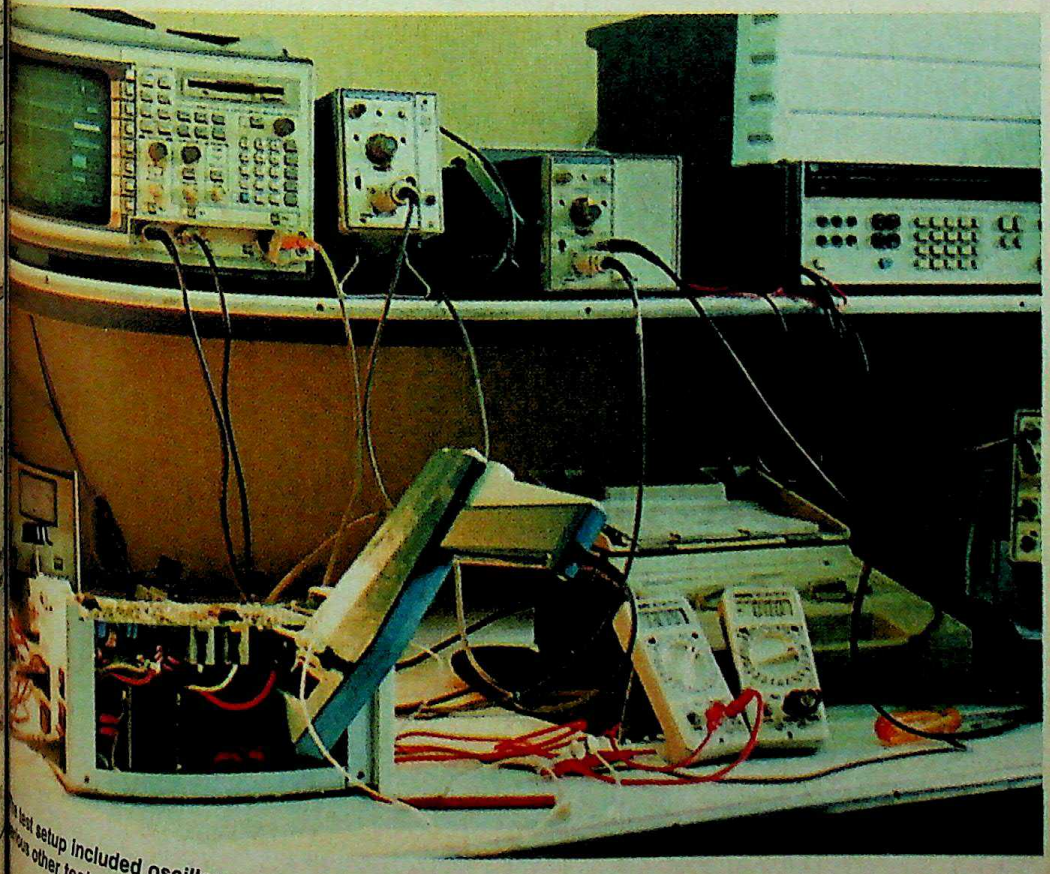
The UPS Shootout

How PCQ Labs and IIT Delhi tested and ranked the UPS systems

Since 1994, *PC Quest* has been carrying an annual comparative review of UPS systems in its May issue, based on reviews by PCQ Labs with IIT Delhi. This year we decided to focus on the most exciting products in the market—sub-compact, low-cost UPS units for individual desktop, SOHO and home PCs.

We chose a price limit of Rs 12,000. There was even a Rs 6,000 UPS from the other well-known Tata Liebert brand (an editor's choice winner in 1995) which we did not get for the review despite much follow-up; ten days *after* the whole review was over, the vendor submitted the product. The same happened with another former editor's choice awardee, ComputerWare Compact; we got no products from them before or during the review, but a unit was sent almost two weeks too late. Both are featured in a quick preview, outside the main review.

Including the two late entrants, we had 25 UPS systems in our labs. One was discovered to be just above Rs 12,000 and thus disqualified; one was defective, and could not be tested. Where manufacturers provided more than one UPS of similar or near similar characteristics, only the better one has been ranked.



The test setup included oscilloscopes, current probe and amplifier, digital meters, 250 VA loads, and various other test equipment

Testing

We defined the parameters for testing and ranking, keeping in mind SOHO and home PC users' requirements. These fell into two sets. One, the "test parameters"—these, we could test in the labs, and they define the performance of the system (and being functions of design and manufacture, cannot be easily changed). Two, a set of three parameters which don't directly affect the actual performance of the system, but affect its value, and which can't be "tested".

We kept these parameters separate till the end, and have reported separately the ranking for each set. Only in the end have we combined them to arrive at a single score.

Test parameters: These included a battery of tests for the switchover time, the switchover voltages, backup time, float voltage, short-circuit handling, etc.

Other parameters: We also considered the price per VA, the warranty period, and the compactness. UPSes vary widely in rating and price, so to arrive at a uniform base we did not use the actual price, but the price divided by the power rating—as "Rs per VA".

Weightages

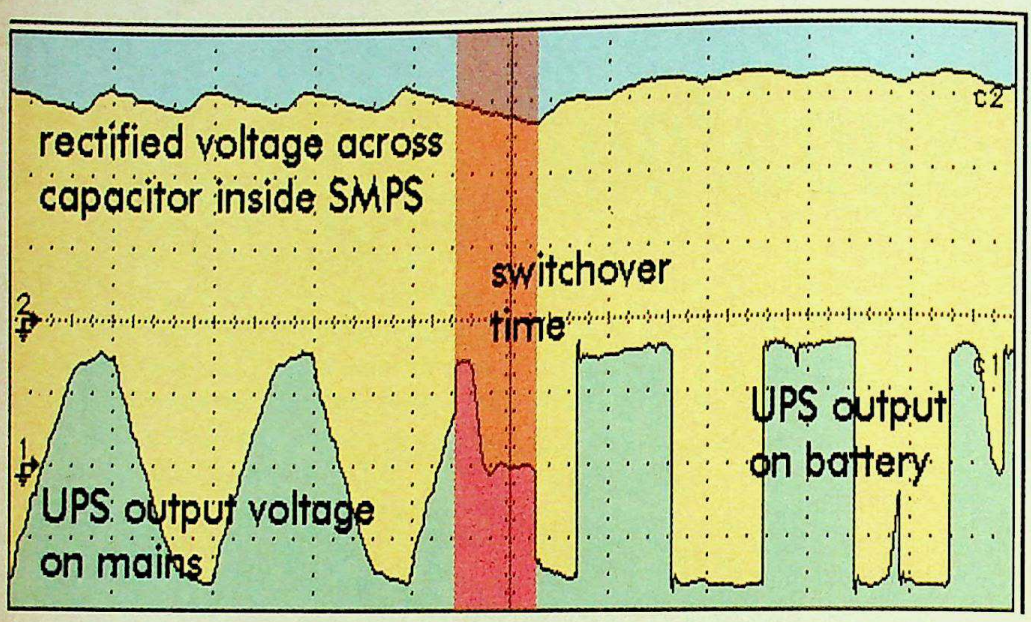
In determining the weightages to be assigned to each of the above parameters, we have used the Brown-Gibson model (see May 1995 issue for details.)

The final weightages used in the rankings are as below.

Test Parameters	
Switch over time	18
Maximum output	16
Minimum output	16
Maximum switch over voltage	15
Minimum Switch over voltage	15
Backup time	8
Cold start	6
Float voltage	4
Short Circuit	2
Other Parameters	
Rs per VA	50
Warranty period	30
Compactness	20

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Switchover time is measured from the point of loss of mains power to the kicking in of battery-derived power, shown here by the vertical color band

The two sets are normalized to provide equal weightages to the single most important criterion in each set—switchover time, and Rs per VA. Thus, the results of the Test Parameters are multiplied by **2.78 (50/18).**

The Test Suite

The following were measured:

1. Battery Float voltage
2. Maximum and minimum output voltage of UPS with mains input varied from 170 V to 270 V
3. Maximum and minimum line voltage at which the UPS switches to battery. In line-interactive models, the minimum line voltage for operation with no battery assistance was measured.
4. Minimum rectifier voltage during switch over and switch over time.
5. The ability to start the load without mains (250 VA in case of UPSes below 500 VA, additional 250 VA in the case of UPSes of 500 VA and above).
6. Battery voltage and current at full load (250 VA / 500 VA)
7. Survival and recovery from a full output short circuit

The Score

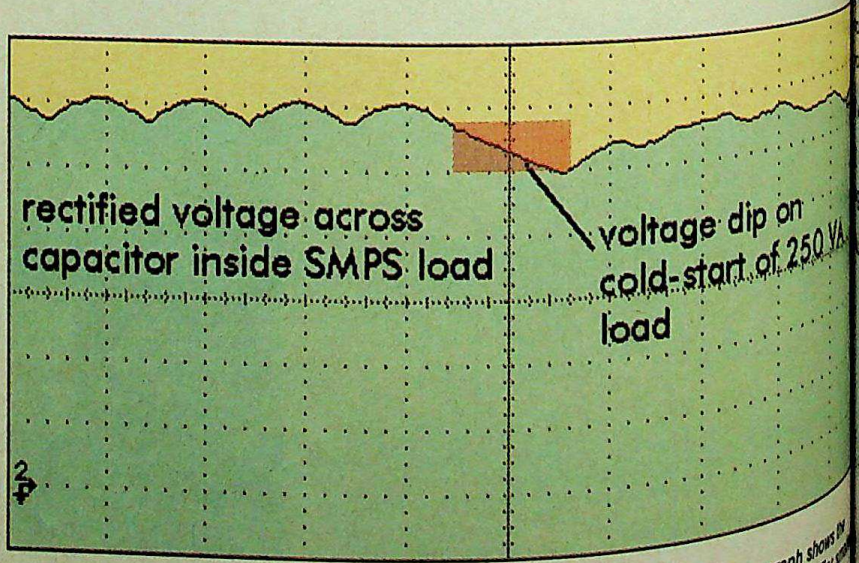
The score for a UPS in each of these is calculated as the weightage for the parameter, multiplied by the index for that parameter.

Switchover Time

This is the time the UPS takes to switch over to battery power, when the mains fails—the time from the point of failure, till when the UPS starts supplying power again.

Your PC's SMPS has capacitors which store enough charge tp to supply power to the PC's circuits for a brief 10...20 ms (milliseconds). If the UPS does not kick in before this interval, the PC can reboot. Also, the minimum voltage should be kept within the safe operating thresholds of your computer (within 10 percent of 220 V).

Switchover time	Index
More than 10 ms (slow)	0
5...10 ms (average)	1
less than 5 ms (good)	2



Cold-start of a 250 VA load on battery, with one 250 VA load running. The graph shows the rectified voltage inside the first load, which dips when the second load comes on. For some UPSes, only one 250 load is used

Max/Min Output Voltage

The output voltage must be within ... percent of 220 V, to ensure the safe ... stable performance of every PC. The ... ther away the output is from 220 V ... lower the performance level of the ...

Output Variation from 220 V	Index
more than 15% (poor)	
10...15% (average)	
less than 10 percent (good)	

Max/Min Switchover Voltage

This measures the extent of ... tion, and hence the suitability to ... conditions. The wider the range of ... mains voltage at which the UPS ... ues on mains power without switching ... battery, the better. Provided, of ... that output correction takes place—... is, the output stays within 10...15 ... cent of 220 V. Several US-origin UPSes ... which otherwise performed very ... lost out here.

Input range

Within 10% of 220 V (average)	
10...15% (good)	
Over 15% of 220V (best)	

*Until switchover to battery, with ... regulation

Backup Time

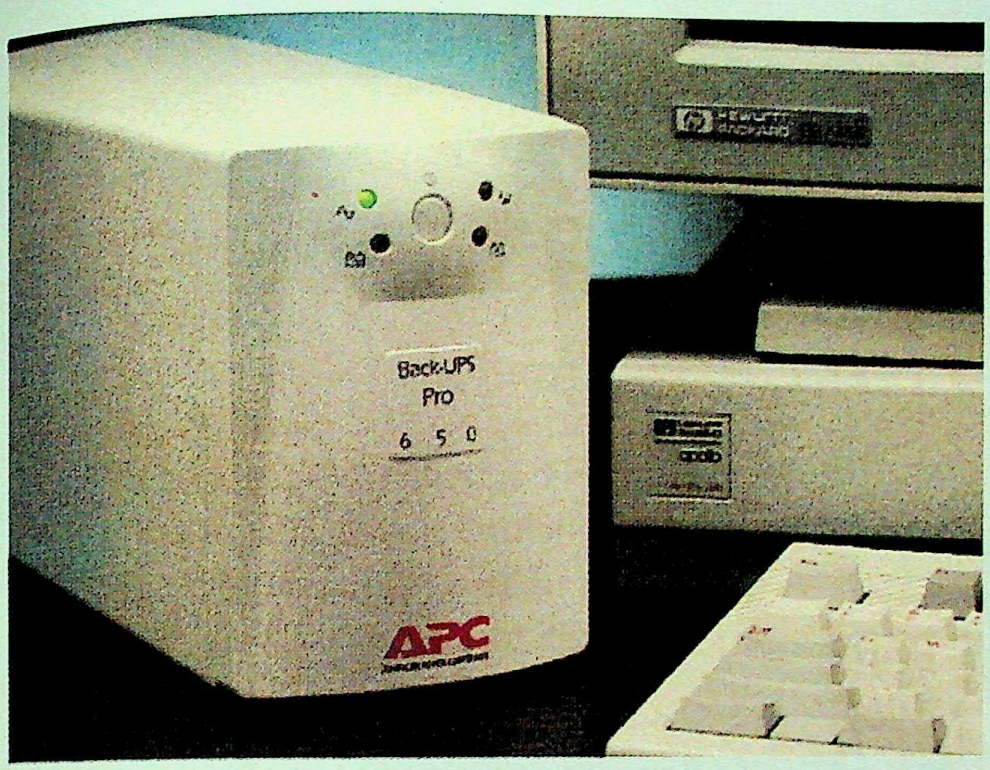
Other things being equal, the ... the back up time, the better. We ... lated the back up time as below.

Backup time in hours = % AH ...

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

New Back-UPS® Pro™ PnP pays for itself the first time you use it



perts agree: Windows 95 demands APC protection.

Multi-Tasking Multiplies your risk of "The Big One"

Multi-tasking operating systems like Windows 95 let you open and manipulate multiple files and applications at the same time. That's why, unfortunately, as PC Magazine says "When Windows 95 does crash, it's a horrible mess..."

In short, if you still don't have proper protection (that $5 surge strip doesn't count) it's time to protect yourself before you kick yourself. Experts agree: If you choose not to decide on proper protection now, the next time you see this ad may be too late.

Back-UPS Pro PnP UPSs Feature:

- Instantaneous battery backup protects your data against a total loss of power.
- Automatic Voltage Regulation (AVR) provides the edge you need for full protection against extended brownouts or overvoltages without draining the battery.

CellGuard intelligent battery management dramatically extends battery life with fast recharge and deep discharge protection. Battery diagnose.

FREE software

- Warn you before problems occur and batteries are quickly and safely user-replaceable without needing to shut your system down. (Batteries last 3-6 years under normal use).

Built-in phone line/10Base-T network cable surge protection for a bulletproof response to anything Mother Nature or Murphy's Law sends in your direction. So don't wait for the school of high shocks to teach you an expensive lesson. Ask for APC today.

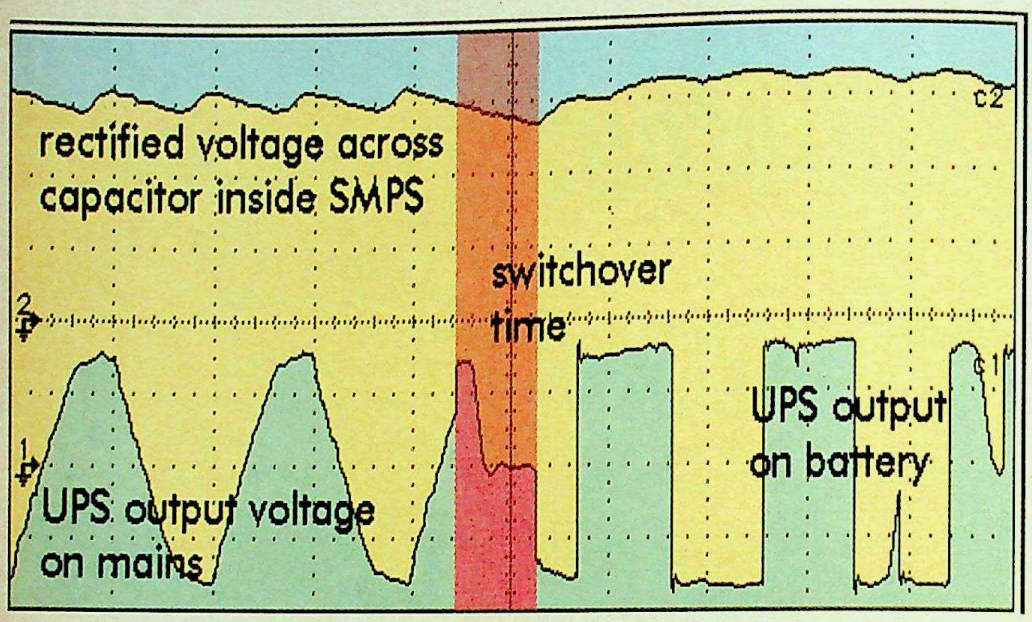
COMPUAGE ELECTRONICS PVT. LTD.

Head Office Bombay : 3, Dhuru Bldg., 329, Vithalbhai Patel Road, Off Lamington Road, Mumbai 400 004.
Ph. 385 1573 / 387 3436 Fax.: 387 7836
Bangalore : 408/409B, Mittal Towers, 6, M. G. Road, Bangalore Fax : 559 6087
New Delhi : E2, Kalkaji Main Road, SF-1, Second Floor, New Delhi

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Samkit/CE/102/96

Digitized by Arya Samaj Foundation Chennai and eGangotri



Switchover time is measured from the point of loss of mains power to the kicking in of battery-derived power, shown here by the vertical color band

The two sets are normalized to provide equal weightages to the single most important criterion in each set—switchover time, and Rs per VA. Thus, the results of the Test Parameters are multiplied by **2.78 (50/18).**

The Test Suite

The following were measured:

1. Battery Float voltage
2. Maximum and minimum output voltage of UPS with mains input varied from 170 V to 270 V
3. Maximum and minimum line voltage at which the UPS switches to battery. In line-interactive models, the minimum line voltage for operation with no battery assistance was measured.
4. Minimum rectifier voltage during switch over and switch over time.
5. The ability to start the load without mains (250 VA in case of UPSes below 500 VA, additional 250 VA in the case of UPSes of 500 VA and above).
6. Battery voltage and current at full load (250 VA / 500 VA)
7. Survival and recovery from a full output short circuit

The Score

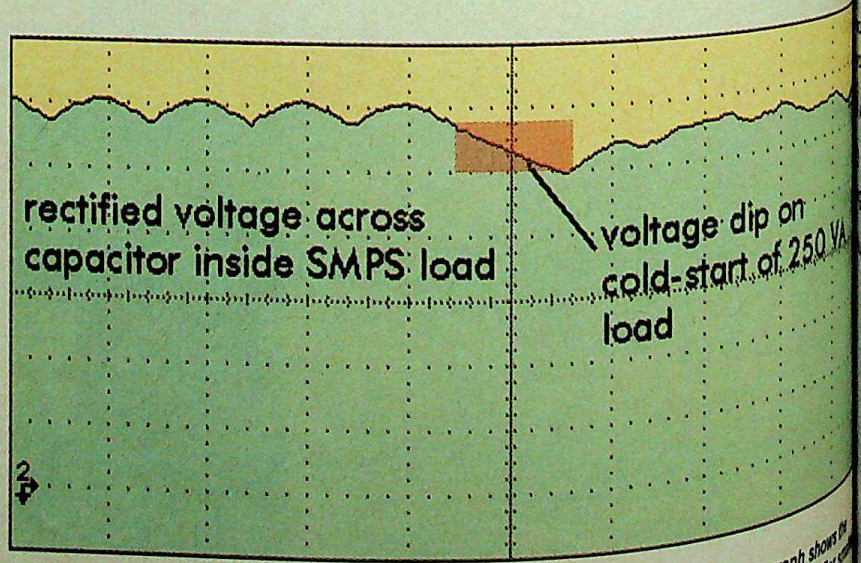
The score for a UPS in each of these is calculated as the weightage for the parameter, multiplied by the index for that parameter.

Switchover Time

This is the time the UPS takes to switch over to battery power, when the mains fails—the time from the point of failure, till when the UPS starts supplying power again.

Your PC's SMPS has capacitors which store enough charge tp to supply power to the PC's circuits for a brief 10...20 ms (milliseconds). If the UPS does not kick in before this interval, the PC can reboot. Also, the minimum voltage should be kept within the safe operating thresholds of your computer (within 10 percent of 220 V).

Switchover time	Index
More than 10 ms (slow)	0
5...10 ms (average)	1
less than 5 ms (good)	2



Cold-start of a 250 VA load on battery, with one 250 VA load running. The graph shows the rectified voltage inside the first load, which dips when the second load comes on. For some UPSes, only one 250 load is used

Max/Min Output Voltage

The output voltage must be within ... percent of 220 V, to ensure the safe ... stable performance of every PC. The ... ther away the output is from 220 V ... lower the performance level of the ...

Output Variation from 220 V	Index
more than 15% (poor)	
10...15% (average)	
less than 10 percent (good)	

Max/Min Switchover Voltage

This measures the extent of ... tion, and hence the suitability to ... conditions. The wider the range of ... mains voltage at which the UPS ... ues on mains power without switching ... battery, the better. Provided, of ... that output correction takes place—... is, the output stays within 10...15 ... cent of 220 V. Several US-origin UPSes ... which otherwise performed very ... lost out here.

Input range	Index
Within 10% of 220 V (average)	
10...15% (good)	
Over 15% of 220V (best)	

*Until switchover to battery, with ... regulation

Backup Time

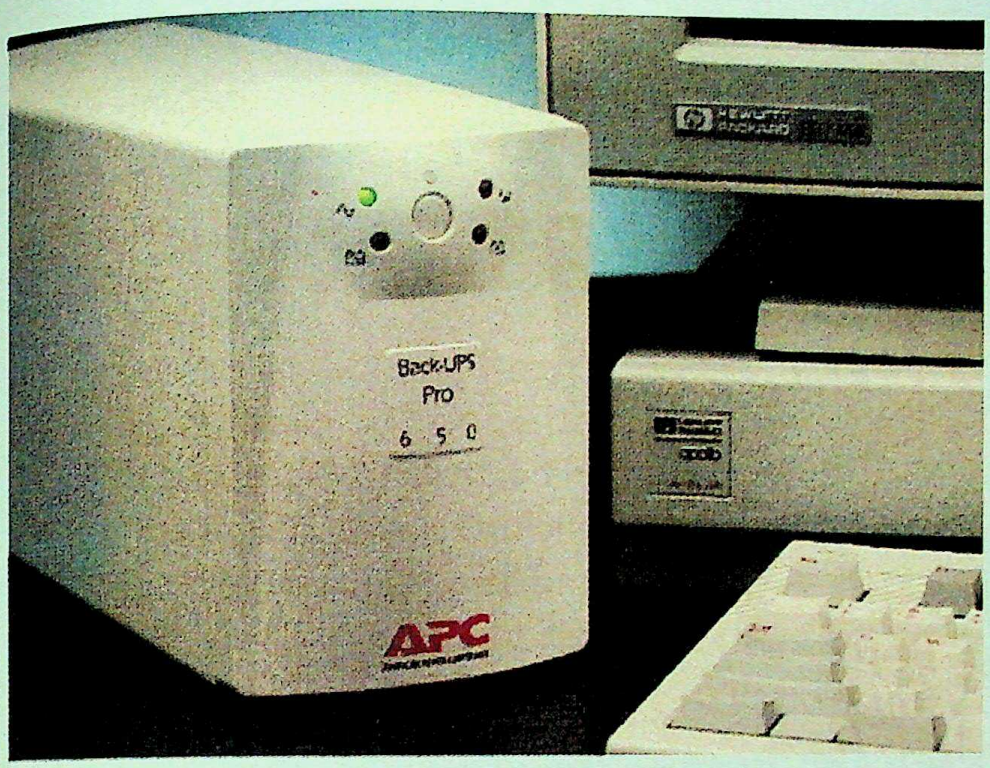
Other things being equal, the ... the back up time, the better. We ... lated the back up time as below.

Backup time in hours = % AH ...

CC-0. In Public Domain. Panini Kanya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

New Back-UPS® Pro™ PnP pays for itself the first time you use it



perts agree: Windows 95 demands APC™ protection.

Multi-Tasking Multiplies your risk of "The Big One"

Multi-tasking operating systems like Windows 95 let you open and manipulate multiple files and applications at the same time. That's why, unfortunately, as PC Magazine says "When Windows 95 does crash, it's a horrible mess..."

In short, if you still don't have proper protection (that $5 surge strip doesn't count) it's time to protect yourself before you kick yourself. Experts agree: If you choose not to decide on proper protection now, the next time you see this ad may be too late.

Back-UPS Pro PnP UPSs Feature:

- Instantaneous battery backup protects your data against a total loss of power.
- Automatic Voltage Regulation (AVR) provides the edge you need for full protection against extended brownouts or overvoltages without draining the battery.

CellGuard intelligent battery management dramatically extends battery life with fast recharge and deep discharge protection. Battery diagnose.

FREE software

- Warn you before problems occur and batteries are quickly and safely user-replaceable without needing to shut your system down. (Batteries last 3-6 years under normal use).

Built-in phone line/10Base-T network cable surge protection for a bulletproof response to anything Mother Nature or Murphy's Law sends in your direction. So don't wait for the school of high shocks to teach you an expensive lesson. Ask for APC today.

COMPUAGE ELECTRONICS PVT. LTD.

Head Office Bombay : 3, Dhuru Bldg., 329, Vithalbhai Patel Road, Off Lamington Road, Mumbai 400 004.
Ph. 385 1573 / 387 3436 Fax.: 387 7836
Bangalore : 408/409B, Mittal Towers, 6, M. G. Road, Bangalore - Fax : 559 6087
New Delhi : E2, Kalkaji Main Road, SF-1, Second Floor, New Delhi

Samkit/CE/102/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CONSUL CONSOLIDATED (P) LTD. 4/329-A, Old Mahabalipuram Road, MADRAS 600 041 Ph: 4926651/4926652 FAX: 4926653.
Branch Office Tele Fax Nos. • BANGALORE 3349205 • CALCUTTA 4406187 • COIMBATORE 211068/211075 • COCHIN 394366 • HYDERABAD 849878
• MADRAS 4998335 • MADURAI 534688 • NEW DELHI 8242956 • TRICHY 770740 • VIZAG 541324
DEALERSHIP ENQUIRES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

The Electrical Results

MODEL	Vendor	VA	PRI	SOT	Omn	Omn Var	Omx	Omx Var	SOmn	SOmx	Batt	AH	Volt	Float Volt	Cells	Float/ Cell	LS	Short	Batt V	Amp	Amp/AH	% AH/ Avl	Avl AH	Backup (min)
BACKUP PRO 280	APC	280	0.34	4.2	204	7.27%	264	20.00%	174	270	2	4.5	6	13.8	6	2.30	0	1	12.12	14.8	3.2	27%	1.23	5
500 C	Albit	500	0.69	6.8	191	13.18%	231	5.00%	150	270	2	7.0	12	27.2	12	2.27	1	1	24.30	16.2	2.3	32%	2.21	8
AMI LT-600	United Info	600	0.68	4.4	205	6.82%	245	11.36%	180	269	2	4.5	12	28.0	12	2.33	1	1	23.30	16.8	3.7	26%	1.15	4
625 SLK	Max Systems	625	1.00	7.8	190	13.64%	254	15.45%	144	270	2	7.0	12	27.1	12	2.26	1	1	24.00	15.7	2.2	32%	2.24	9
POWER SAVE UPS	Linear & Digital Systems Ltd	500	0.58	2.8	189	14.09%	243	10.45%	145	270	2	7.0	12	26.7	12	2.23	1	1	24.00	14.6	2.0	33%	2.31	9
PERFECT 420 e	MSD Infosys Ltd	420	0.57	10.6	210	4.55%	225	2.27%	173	263	1	7.0	12	13.4	6	2.23	1	1	11.70	17.0	2.4	31%	2.18	8
SMART POWER	Synergy Systems	625	0.77	12.0	190	13.64%	246	11.82%	168	263	2	7.0	12	28.2	12	2.35	1	1	24.10	16.5	2.3	32%	2.21	8
PATRIOT	UNI Marketing Associates	250	0.38	19.2	200	9.09%	275	25.00%	195	270	1	7.0	12	13.4	6	2.23	0	1	11.61	15.8	2.2	32%	2.24	9
APC BACK UPS 400	American Power Conversion	400	0.46	6.2	209	5.00%	274	24.55%	205	270	1	7.0	12	13.9	6	2.32	0	1	12.01	15.5	2.2	32%	2.24	9
GUARDIAN SLEEK	Microsys	500	0.72	4.2	210	4.55%	251	14.09%	166	270	1	7.0	12	13.3	6	2.21	1	1	11.40	27.1	3.8	25%	1.78	4
Guardian Sleek	Microsys	250	0.45	12.0	206	6.36%	246	11.82%	168	270	1	7.0	12	13.6	6	2.27	1	1	12.10	13.8	1.9	34%	2.38	10
ACCURE FA 40 IB	Datex Electronics Ltd	400	0.49	4.6	218	0.91%	238	8.18%	150	270	2	7.0	12	26.9	12	2.24	0	1	24.70	7.4	1.0	43%	3.01	24
BULL UPS U 600 3027	Bull Power Systems Ltd	600	0.57	6.2	189	14.09%	253	15.00%	166	269	2	7.0	12	27.3	12	2.28	0	1	24.00	16.5	2.3	32%	2.24	8
625 M AVR	Sun Electronics	500	0.68	5.0	196	10.91%	241	9.55%	164	268	2	11.0	12	27.5	12	2.29	1	1	24.50	15.2	1.4	39%	4.29	17
LU 300	LINK	300	0.34	10.0	N/T	100.00%	N/T	100.00%	N/T	N/T	2	3.0	6	14.1	6	2.35	1	1	11.30	11.2	3.6	26%	0.77	4
BC 250	Tripp Lite	250	0.54	7.2	188	14.55%	275	25.00%	183	270	1	7.2	12	13.6	6	2.27	1	0	11.88	12.7	1.7	36%	2.59	12
OMNIPRO INT 675	Tripp Lite	675	0.77	5.2	196	10.91%	262	19.09%	153	260	2	12.0	6	13.8	6	2.30	0	1	11.90	27.1	2.2	32%	3.84	9
OMNIPRO INT 450	Tripp Lite	450	0.58	9.8	199	9.55%	271	23.18%	156	270	1	7.2	12	13.6	6	2.27	0	1	11.90	13.8	1.9	34%	2.45	11

Guide to Abbreviations Used

VA: Power Rating; **PRI**: Price Index = Lowest Cost per VA/Cost per VA; **SOT**: Switch Over Time—Time taken (in ms) by the UPS to switchover from mains to battery; **Omn**: Minimum output line voltage for mains varied between minimum and maximum switchover voltage with battery disconnected; **Omn Var**: Variation from 220V in percentile; **Omx**: Maximum output line voltage for mains varied between minimum and maximum switchover voltage with battery disconnected; **Omx Var**: Variation from 220V in percentile; **SOmn**: Minimum voltage at which switchover occurs from mains to battery; **SOmx**: Maximum voltage at which switchover occurs from mains to battery; **Batt**: Batteries in UPS; **AH**: Ampere Hour rating; **Volt**: Battery voltage; **Float Volt**: Battery float voltage ; **Cells**: Each cell is of 2V; **Float/Cell**: Float Volt divided by Cells; **LS**: Cold start load (0—No, 1—Yes); **Short**: 1—passed, 0—failed; **Batt V**: Battery voltage at full load; **Amp**: Battery current at full load (with 1.02 factored in for current probe calibration); **Amp/AH**: Amp divided by AH; **% AH/Avl**: see "The UPS Shootout" in this issue; **Avl AH**: % AH/Avl divided by 100 and multiplied by AH; **Back Up (min)**: UPS battery backup time in minutes, calculated as Avl AH divded by Amp.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar
Digitized by Arya Samaj Foundation Chennai and eGangotri

The Final Rankings

Model	Vendor	VA	Rank	SOT	Output Voltage		Switchover Voltage		Backup	Load On	Float Voltage	Short Circuit	Total	Rs per VA	Warranty	Compactness	Total	Final Score
					Maximum	Minimum	Maximum	Minimum										
500 C	Albit	500	6	0.5	0.9	0.4	0.8	0.8	0.4	0.2	0.1	0.1	4.3	0.3	0.3	0.2	0.8	5.16
Backup Pro 280	APC	280	7	1.0	0.0	0.9	0.8	0.8	0.2	0.0	0.0	0.1	3.9	0.2	0.6	0.4	1.2	5.04
Back UPS 400	APC	400	16	0.5	0.0	0.9	0.8	0.0	0.4	0.0	0.0	0.1	2.7	0.2	0.6	0.4	1.2	3.98
Accure FA 40	Datex	400	1	1.0	0.9	0.9	0.8	0.8	0.7	0.0	0.0	0.1	5.2	0.2	0.3	0.2	0.7	5.96
Power Save	Linear & Digital	500	7	1.0	0.4	0.4	0.8	0.8	0.4	0.2	0.0	0.1	4.3	0.3	0.3	0.2	0.8	5.04
LU 300	Link	300	17	0.5	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.1	1.0	0.2	0.3	0.6	1.1	2.02
625 SLK	Max	625	12	0.5	0.0	0.4	0.8	0.8	0.4	0.2	0.1	0.1	3.4	0.5	0.3	0.2	1.0	4.42
Guardian Sleek	Microsys	250	10	0.0	0.4	0.9	0.8	0.8	0.4	0.2	0.1	0.1	3.8	0.2	0.3	0.4	0.9	4.73
Guardian Sleek	Microsys	500	3	1.0	0.4	0.9	0.8	0.8	0.2	0.2	0.0	0.1	4.5	0.4	0.3	0.4	1.1	5.54
Perfect 420 E	MSD Infosys	420	5	0.0	0.9	0.9	0.8	0.8	0.4	0.2	0.0	0.1	4.1	0.3	0.3	0.6	1.2	5.33
625 M AVR	Sun	500	2	1.0	0.9	0.4	0.8	0.8	0.7	0.2	0.0	0.1	4.9	0.3	0.3	0.2	0.8	5.77
Smart Power	Synergy	625	14	0.0	0.4	0.4	0.8	0.8	0.4	0.2	0.0	0.1	3.2	0.4	0.3	0.2	0.9	4.14
BC 250	Tripp Lite	250	11	0.5	0.0	0.4	0.8	0.8	0.4	0.2	0.1	0.0	3.4	0.3	0.3	0.6	1.2	4.53
Omnipro INT 450	Tripp Lite	450	9	0.5	0.0	0.9	0.8	0.8	0.4	0.0	0.1	0.1	3.7	0.3	0.3	0.6	1.2	4.89
BC INT 550	Tripp Lite	550	0	0.5	0.0	0.4	0.8	0.4	0.0	0.0	0.0	0.1	2.3	0.4	0.3	0.6	1.3	3.52
Omnipro Int 675	Tripp Lite	675	12	0.5	0.0	0.4	0.8	0.8	0.4	0.0	0.0	0.1	3.1	0.4	0.3	0.6	1.3	4.42
Patriot	UNI Marketing	250	15	0.0	0.0	0.9	0.8	0.4	0.4	0.0	0.0	0.1	2.7	0.2	0.6	0.6	1.4	4.05
AMI LT - 600	United Informatics	600	4	1.0	0.4	0.9	0.8	0.8	0.2	0.2	0.0	0.1	4.5	0.3	0.3	0.4	1.0	5.52

All calculations are done to 3 decimal places.

Guide to Abbreviations Used

VA: Power Rating; **Rank:** Ranking order; **SOT:** Switch over Time. The individual scores have been added to give the total scores. *These in turn have been added to give the final score.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

battery current
AH available is got by interpolation
the following table.

AH rating	% AH Available
	100
	83
1.1	58
1.2	43
2.5	33
7.0	26
9.0	23
3.5	20
5.0	16
8.0	10
12.0	

he battery characteristics table has developed at the IDDC, based on from Hitachi and other battery ven-

kup time'	Index
ess than 5 minutes	1
5..10 minutes	2
ore than 10 minutes	3

t full load

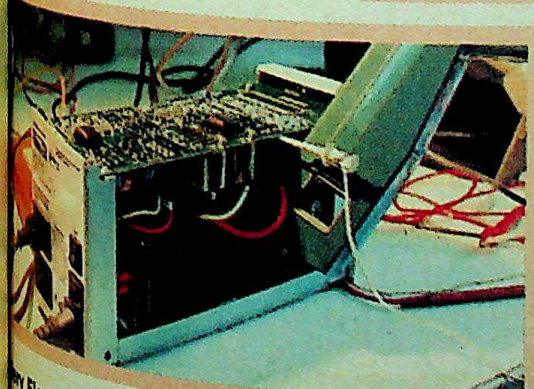
Start

he ability to cold-start the load with-ains (250 VA in case of UPSes below A, additional 250 VA in the case of s of 500 VA and above).

Start	Index
s	1
o	0

Voltage

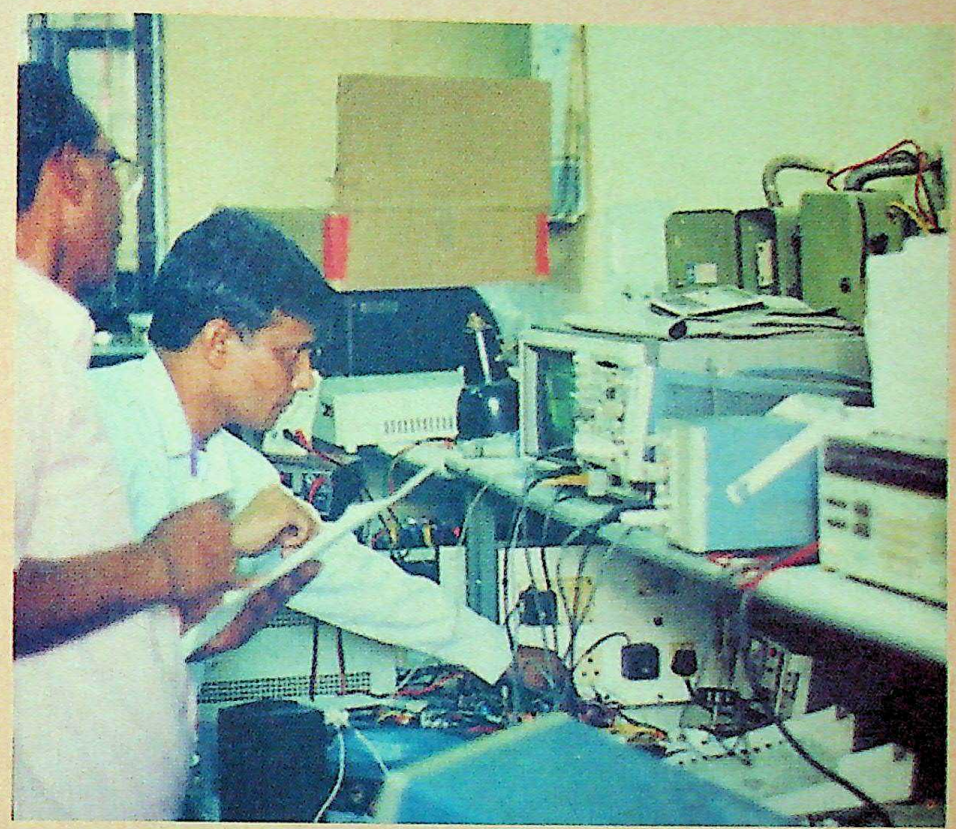
oat voltage is an important param-determining the life of the battery, hould ideally be between 2.25 and per cell.



y Float Voltage	Index
25..2.29 volt/cell	1
utside this range	0

Circuit

test was introduced as the sys-



Electrical Testing

Electrical testing was done by Arun K Agarwala, chief design engineer at the IDDC Labs, Indian Institute of Technology, Delhi, assisted by R P Sood and V K Gandhi of the IIT. The test model was developed in consultation with the IDDC at IITD, by Krishna Kumar, N Magesh and Praveen P of PC Quest Labs. The final reviews and opinions are those of PCQ Labs and PC Quest.

As we had UPSes varying from 250 VA to 675 VA, for standardization the tests were designed for two load levels, one for 250 VA and the other for 500 VA.

The testbench included a circuit designed to simulate a computer SMPS, with two independent 250 VA rectifier loads. The mains supply was varied using a variable voltage isolation transformer with an output range of 170...270 V.

The battery current was measured using a Techtronix Tech503 current probe, and the voltage, using calibrated digital voltmeters. An HP 54520 digital storage oscilloscope was used for the observations, and for capturing the wave forms directly to floppy disk.

Important

The electrical tests represented here involve high voltages and currents, which can be lethal. They should be done only at properly equipped labs by qualified people. Readers should *not* attempt these tests.

tems were being tested for home and SOHO use, where accidental "shorts" may well happen. If the system survived and was reusable after shorting, we assigned it a 1, else it got a zero.

Cost per VA

We took the ratio of the lowest cost per VA (of the UPSes reviewed) to the cost per VA of each UPS, to arrive at the score for that UPS.

Warranty for batteries	Index
1 year	1
More than 1 year	2

Compactness

This was measured on a relative scale, involving both size and weight, and all systems were graded on a scale of 1 to 3, with the most compact being given 3 and the least compact given 1.

Krishna Kumar at PCQ Labs

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DATAGUARD UPS

- User Friendly, Compact with Current State of the-Art-Technology.
- Sine Wave and Modified Sine Wave Output Ideal For Computers.
- OFFLINE UPS with Efficient **AVR** for Smooth AC Output.
- ONLINE TRUE SINE WAVE UPS with µp Circuit.
- IGBT & MOSFET Technology for Exceptionally High Efficiency.
- Regulated CVCC Battery Charger to increase Battery Life.
- Remote Interface for Dos, Windows & Novell, Unix & Xenix.
- Nationwide after Sales & Service Backup.

PROTECTIONS AGAINST - POWER FAILURES, INPUT U/O VOLT., OUTPUT U/O VOLT., HEAVY INRUSH CURRENT, ELECTRONIC SHORT CIRCUIT, ELECTRONIC OVERLOAD, SAG, SURGES, EMI & RFI INTERFERENCE & TRANSIENTS, BATTERY U/O CHARGING.

OFF LINE UPS - 100 VA - 5 KVA ON LINE UPS - 500 VA - 5 KVA

Our Other Products FAXGUARD UPS : AUTO ON + BACKUP, E-MAIL GUARD UPS : AUTO ON + BACKUP, EPS, CHARGERS, INVERTORS, STABILISERS, SMPS

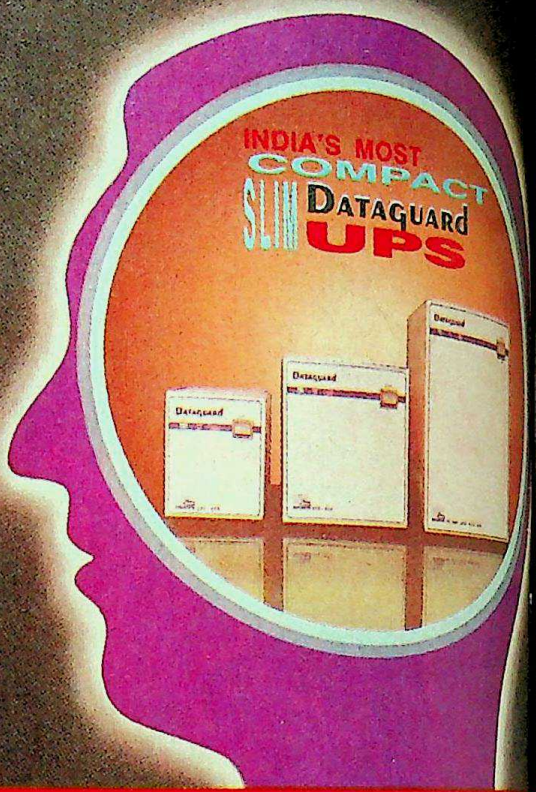
Div. Of

BRAIN CONTROLS & SYSTEMS

SINNARSUN ELECTRO POWER SYSTEMS PVT. LTD.

Works : Sr. No. 75, Shinde Chhatri, Wanwarie, Pune - 411 040.
Phone : (0212) 679944 / 674994 Fax : (0212) 674181.

Unmatched Quality Unbelievable Price

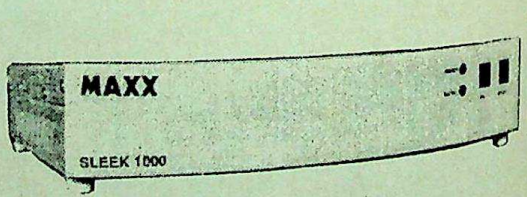


ENQUIRES FOR DEALERSHIPS, OEM'S ARE SOLICITED FROM ALL MAJOR CITIES

UPS MAXX

UPS PRICE DOWN

Nobody can beat us either in price or in quality. Prompt after sales service. One Year Guarantee



RS. 8500/- FOR 625 VA UPS WITH 2 NOS. 7AH SMF BATTERIES
Also Available On-Line UPS from 0.5KVA to 10KVA

* Bangalore: 14/1, 2nd Floor, H. Siddiah Road Cross, Ph: 2220953 / 2243229
* New Delhi : A.118, Lajpatnagar - I, Ph: 6832091 / 6829478 Fax: 6832091

OTHER PRODUCTS : SERVO STABILIZER, CVT, SILENT GENERATOR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Models Reviewed

Model	VA	Power outlets	Price (Rs)	Warranty (Years)	Vendor's Name and Address
500 C	500	3	9,900	1	**Albit Electronics Pvt. Ltd**, 20-B, Shakti Ngr Extn., Delhi 110052. Tel: 011-7218038, 7428038, 39, Fax: 011-7419029
Backup Pro 280	280 (LI)	4	11,100	2	**American Power Conversion**, 5A, Century Plaza, Anna Salai, Madras 600018. Tel: 044-4341784 Fax: 044-4341464
Back UPS 400	400	4	11,700	2	**American Power Conversion**, 5A, Century Plaza, Anna Salai, Madras 600018. Tel: 044-4341784 Fax: 044-4341464
Accure FA 40	400 (LI)	2	11,000	2*	**Datex Electronics Pvt Ltd**, T-1512/2, Bhishma Pitamah Marg, New Delhi 110024. Tel: 011-4621931 Fax: 011-4602457
Power Save	300	1	12,000	1	**Futech Computers,** AF-4 New Empire Industrial Estate, Kondivita Road, JB Nagar, Andheri (E), Mumbai 400059. Tel & Fax 022-8214060
LU 300	500	3	11,800	1	**Linear & Digital Systems Ltd,** C-202/1, Mayapuri Industrial Area Phase-II, Delhi 110064. Tel: 011-5400406, 5137474 Fax: 011-5794617
625 SLK	625	3	8,500	1	**Max Systems**, A-118 Lajpat Nagar I, New Delhi 110024. Tel: 011-6829478, 6837076 Fax: 011-6832091
Guardian Sleek	250	2	7,500	1	**Microsys**, Plot No. 99, Chandraat Apts. Mayur Colony, Kothrud, Pune 411029. Tel: 0212-344167, 364355 Fax: 0212-364355
Guardian Sleek	500	2	9,500	1	**Microsys**, Plot No. 99, Chandraat Apts. Mayur Colony, Kothrud, Pune 411029. Tel: 0212-344167, 364355 Fax: 0212-364355
Perfect 420 E	420 (LI)	2	9,990	1	**MSD Infosys Ltd**, 78, Bhera Enclave, Paschim Vihar, New Delhi 11041. Tel: 011-5688370, 5577305, 5570721 Fax: 011-5688380, 5439364
625 M AVR	500	4	9,995	1	**Sun Electronics**, 15/A Sector A, Zone B, Mancheswar Industrial Estate, Bhubaneswar 751010. Tel: 0674-480374, 480674 Fax: 0674-482374
Smart Power	625 (LI)	2	11,000	1	**Synergy Systems**, S-102, Badli Industrial Estate Phase I, Delhi 110042. Tel: 011-7293764, 3298572, Fax: 011-3298549, 7293764
BC 250	250	2	6,250	2*	**Tripp Lite**, Prime Source Technologies, 13 Singaram Street, T Nagar, Nadras 600017. Tel: 044- 8282239 Fax: 044-825 1247
Omnipro INT 450	450 (LI)	3	10,500	2*	**Tripp Lite**, Prime Source Technologies, 13 Singaram Street, T Nagar, Nadras 600017. Tel: 044- 8282239 Fax: 044-825 1247
Omnipro Int 675	675	3	12,000	2*	**Tripp Lite**, Prime Source Technologies, 13 Singaram Street, T Nagar, Nadras 600017. Tel: 044- 8282239 Fax: 044-825 1247
Patriot	250	2	8,950	2*	**UNI Marketing Associates**, 39 Cathedral Road, Madras 600086. Tel: 044-8272190, 8264925 Fax: 44-8264925
AMI LT - 600	600	2	11,950	1*	**United Informatics Pvt. Ltd**, Pal Mohan Sadan, 26/32, East Patel Nagar, New Delhi 110038. Tel: 011-5751505, 5763557, 5763558 Fax: 011-5741404

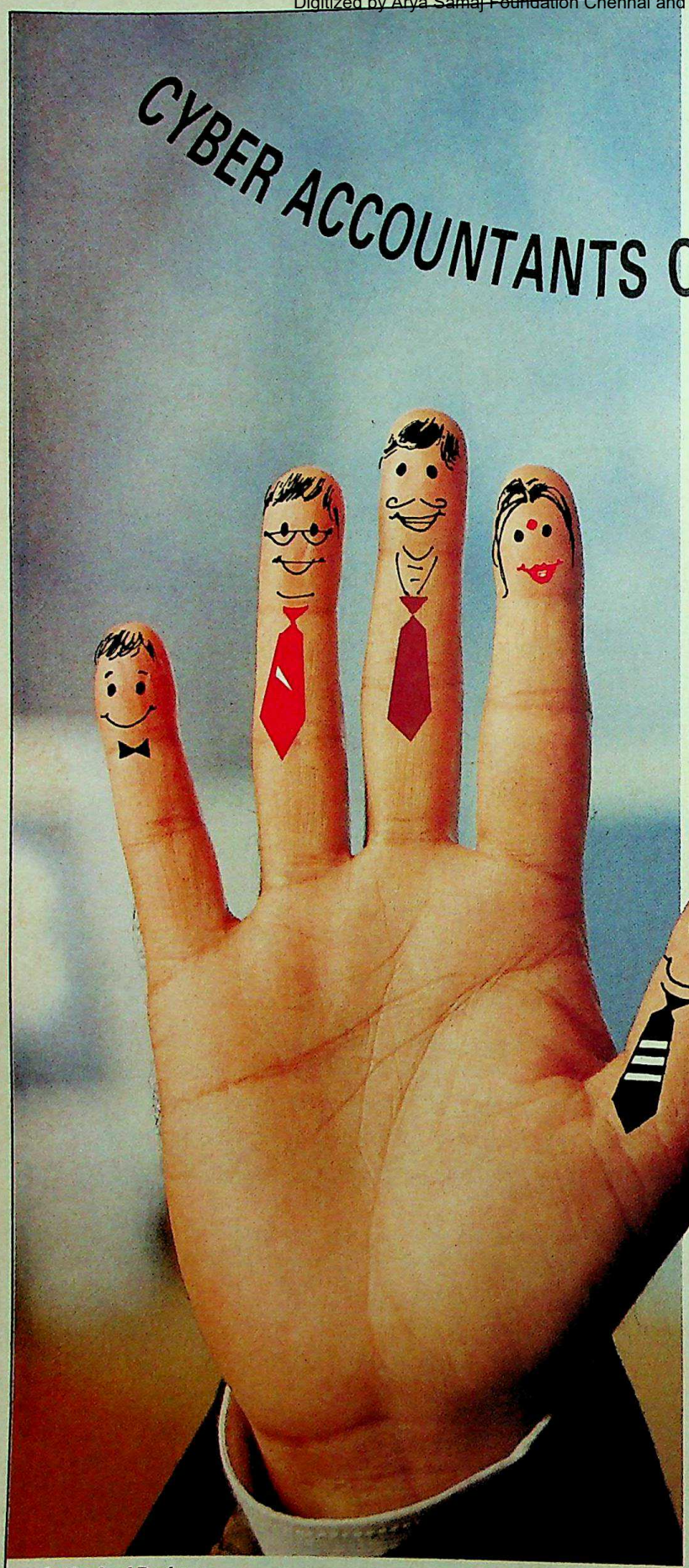
* indicates 1 year warranty for batteries
All models are offline except those marked LI (line-interactive)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Duckback®

CYBER ACCOUNTANTS ON YOUR FINGER TIPS



Start

Duckback presents Value 95—an effortless business accounting software on WINDOWS 95.

If you are already using an accounting package and wish it was more user friendly. Or have never used one and wondering how to start.

Take a look at Value 95.

Highlights :

- Network ready.
- Independent of data format.
- Business templates built-in.
- Virtually unlimited data volume.
- Unlimited number of companies.
- Cue cards, tool tips & context sensitive help.
- Object oriented.
- Extensive graphics.
- Codeless.

NOW ADD VALUE TO WINDOWS 95.

VALUE 95

EFFORTLESS ACCOUNTING

Microsoft SOLUTION PROVIDER

Duckback Information Systems Pvt. Ltd.

Duckback House, 4th Floor,
41, Shakespeare Sarani,
Calcutta-700 017.
Phone : 240-2726, 247-1601/2/3, 247-3019
Fax : 033-247-6152 Tlx: 021-2207

Dealers enquiry solicited all over India.

Authorised Dealers :-
BOMBAY : ARTECH SOFTWARE SYSTEMS Ph : 837 0166 Fax : 91-022-624 3503. MOBU Ph : 261 0754 Fax : 91-22-262 2733. TOTAL SOLUTIONS Ph : 837 5362. VERTEX MICRO SYSTEMS Ph : 834 8421. **CALCUTTA :** CRAWFORD SYSTEMS Ph : 248 9477, 248 4299. SIGMA INFOTECH Ph : 464 2229. THETA INFOTECH PVT. LTD. Ph : 242 8015 Fax : 91-33-242 4884. XENIX COMPUTERS PVT. LTD. Ph : 555 1855 Fax : 91-33-555 1855. ZEE COMPUTERS Ph & Fax : 91-033-243 0173 **GANGTOK :** STAR COMPUTER & COMMUNICATION SYSTEMS Ph : (03592)-24117, (03592)-23413 **NEW DELHI :** AABHA MANAGEMENT SYSTEMS PVT. LTD. Ph : 686 8923, 661 740 Fax : 91-11-696 8767. BPB PUBLICATIONS Ph : 326 7741, 327 2329, 328 1723, 325 4990 Fax : 91-11-326 6427. **PATNA :** EXCELSIOR COMMUNICATIONS PVT. LTD. Ph : 262 278 Fax : 91-0612-223 204. **SILIGURI :** GLOBAL INFOCOM DIGITAL SYSTEMS Ph : 0353-420 716.

*All brand and product names are registered trade marks of their respective holders.

WATCH OUT FOR A FULLY 32 BIT MS OFFICE AND INTERNET COMPANION IN P.C. QUEST JULY CD-ROM.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Power Winners

Who won, and why, in this summer's UPS Shootout

We limited participation in this shootout to UPS systems costing less than Rs 12,000—systems aimed at home and SOHO users, as well as individual office setups. The rationale behind this limit is that bar the corporate sector, users can afford decent power conditioning by investing in mid to high-end systems.

We got 25 units for review at PCQ labs in April. One model was priced well over the Rs 12,000 limit. Another was faulty and did not work during our testing. A third had to be dropped when its back-up electronics failed consistently during testing. And two (from Tata Liebert and Computer Age's Compact) came in over a month after our testing was over. Some vendors also submitted several units that had only minute differences on their VA rating. In such cases, we included only one of the supplied models in the testing process.

After completeing our tests and analysing the results, we noticed a few interesting trends.

Trends

The above-300 VA models performed better, both due to their offering somewhat better value with more usable power available well within their stated limits. If we kept all the 17 ranked models in one list, the top five places went to above-300 VA models.

The US brands did not fare very well, in comparison to "homegrown" ones. In particular, they lost out in voltage regulation—they were unable to hold the output to within 10 percent of 220 volts, especially when the mains voltage went high above or fell well below the rated limit. These UPSs are ideal for situations where the mains supply is stable and well-regulated. However, in many Indian situations, that is not true, and good regulation—with undervoltage and overvoltage protection—is very important.

Editors' Choice

The overall ranking (see also the "The UPS Shootout" in this issue) lists all the UPS units tested. For the Editor's Choice awards, however, we classified the UPSs into two groups separate groups—300 VA and below, and above 300 VA.

In the 300 VA and below category, our Editors' Choice award went to the **APC Backup Pro 280**.

In the units above 300 VA category, our Editors' Choice awards went to the **Datex Accure** and the **Nissan 625 M VAR**.

Caveats

These reviews are meant to be a guide to UPS selection, rather than a sweeping or generic endorsement.

What this means is this; Depending on your individual needs and your local electrical conditions and requirements, your personal ranking may differ from ours.

For instance, in your area, the mains voltage may be quite stable, with the occasional minor or infrequent drop in line voltage. In this case, even a UPS that does not correct very well for overvoltage may be sufficient. Or your work place has a centralized power correction system, such as a CVT or a servo stablizer. Again, in such cases the regulation requirements may be different (see "Planning Your Power" in this issue).

And then there's an important element that we could not test fully in PCQ Labs: long-term reliability. We simulated events that can cause failures, such as full output short-circuits, surges and drops in line voltage, and short-term doubling of the rated load, In addition to these, many other factors, including design, engineering, and component and overall assembly quality, affect long-term reliability.

As a result, users often put the reputation of the brandname above other parameters, and not without reason.

Finally, there is always the little chance of the unit tested performing differently from the units that ship. This is especially likely in devices such as UPSs, which involve analogue and power electronics whose quality can vary.

The only such case we got to know about involved a UPS in 1994, unfortunately the winner of an Editors' Choice award. When we later got reader complaints about the unit, a Quasar Microsine online, switching off erratically under normal use, we bought a unit from the market and confirmed the problem. So though we have had only one such report over the past three years, we now take a good deal of care at PCQ Labs to inspect all product reviewed for signs of "souping up", and make random checks with existing users of the product or its predecessors.

PKR with Krishna Kumar

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TRUST SUVIK WHEN YOU CAN'T TRUST POWER

SOURCE 2 Online UPS Systems
500 VA to 5 kVA

DATAGUARD Offline UPS Systems
350 VA to 1 kVA

OMNI Power Conditioners
250 VA to 2 kVA

OMNIPOWER Servo Voltage Regulators
Single Phase & Three Phase 1 kVA to 150 kVA

OMNIPOWER Isolation Transformers
Single Phase & Three Phase 1 kVA to 45 kVA

PX POWER Float/Boost Chargers
4 Amps to 65 Amps

Suitable for : Computers, Photocopiers, Telex/Fax Machines, EPABX, Industrial Equipment, CNC Machines, Laser Printers and Analytical & Diagnostic Instruments.

DEALERSHIP ENQUIRIES SOLICITED

Contact:

suvik

Suvik Electronics Pvt. Ltd.

Head Office : 102, GIDC Engg. Estate, Gandhinagar 382 028. Phone : 22584, 22745 Fax : 02712-20112

Ahmedabad : The Sunflower, Nr. Gangotri Society, Gulbai Tekra Road, Ahmedabad 380 006. Phone: 444075, 469204, 405156

Baroda : Mrudula Sadan, Pratap Road, Dandia Bazar, Baroda 390001. Phone : 55403[illegible]

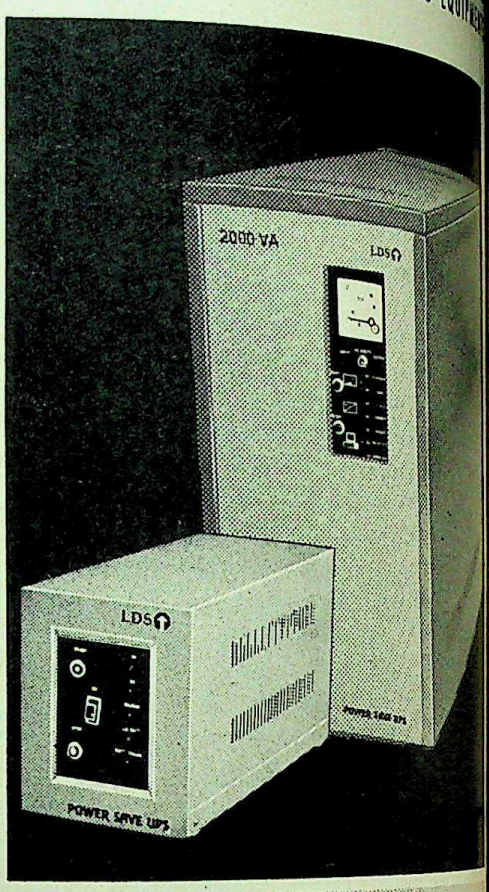
Bombay : 186, Bhagat Singh Colony, Andheri-Kurla Road, Andheri (E), Bombay 400 059. Telefax : 8380881.

New Delhi : 112, Shivlok House-I, Karampura Complex, New Delhi 110 015. Phone : 5433683

Bangalore : 115, Gandhi Bazar, Bangalore 560 004. Phone : 629022

Vibrant 1896

WHILE OTHERS WERE MAKING HIGH DECIBEL [illegible]
WE WERE BUSY CONSOLIDATING & REFINING OUR [illegible]
NOW WE ARE **OUT** BUBBLING WITH CONFIDENCE TO [illegible]
OUR RANGE OF POWER CONDITIONING EQUIP[illegible]



LDS

- OFF LINE UPS SYSTEMS
- ON LINE UPS SYSTEMS
- FAX UPS
- DOMESTIC INVERTERS
- SERVO VOLTAGE STABILIZER

LINEAR & DIGITAL SYSTEMS PVT. LTD.

C - 202 / 1, Mayapuri, Phase - II, New Delhi - 64
Tel: 011-5400406, 5137474, Fax: (91) - 11 - 5794[illegible]

AVAILABLE AT : **AMRITSAR** : 225043, 52012, [illegible]
BANGALORE : 3355178, 3380219, **BARODA** : [illegible]
CHANDIGARH : 693516,695516, **GURGAON** : 331342, [illegible]
229982, 52116, 52838, **NEW DELHI** : 5792324, [illegible]

DEALERS ENQUIRIES SOLICITED

An Integrated House of Power Conditioning [illegible]

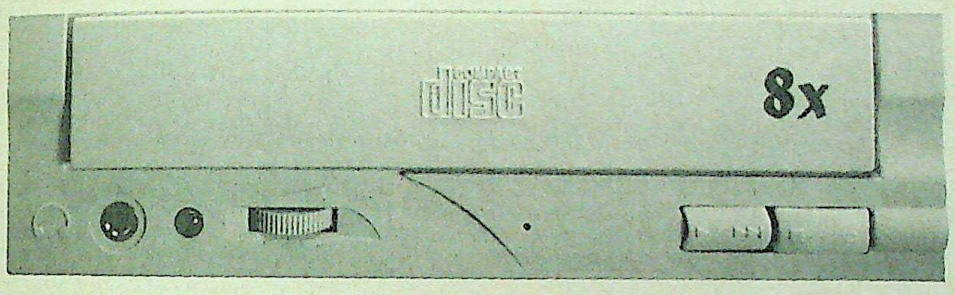
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HOW *CREATIVE* CAN YOU BE AT "QUAD" SPEED?

Now

Acer Sertek

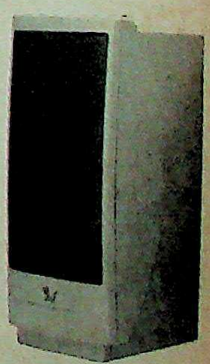


ultimedia Upgrade Kits

Enter the Acer Sertek Multimedia World

TEK CD ROM DRIVES-QUAD SPEED, SIX SPEED, EIGHT SPEED & SCSI ● EXTERNAL CD DRIVES ● 16 BIT SOUND LEADER PRO D CARD ● 20 WATT, 50 WATT & 260 WATT SPEAKERS ● MICROPHONE ● CD TITLES-ENCYCLOPAEDIA ● KIDS READ, GAMES ICROSOFT ENCARTA, DANGEREOUS CREATURES ● MPEG VIDEO CD PLAYER CARDS ● MIDI PIANO KEYBOARDS and more...

New ! Unbelievable Acer Sertek 260 watts speakers



in India
by

MEC™

NOTEBOOKS●DESKTOPS●MULTIMEDIA

iragh enclave new delhi 110 048 India phone 641 6003, 641 6004, 641 6005, 641 6007, 622 4601 fax 646 7690
bombay office phone 8918212

Dist: **R.D. Electronics 6404162** *NOIDA* **Omsun Computers 8551154, 8531518** *Ahmedabad* **Decision Plus 6612317,** *Banglore* **Shreenag Computers 6639392** *Ludhiana* **Netline Computers 534101, 452299** *Indore* **Indore Computers** 538587 *Kanpur* **Delta Industries 210130, 210993** *Chandigarh* **Kapoor Trading Co. 770881, 771985** *Madras* **Senior** O. 8555494, 8240274 *Vijaywada* **Dhruva Systems 477414** *Mumbai* **MEC 8918212, Cyber Tech 6332566, 6267153**

We are looking for Dealers & Resellers in Un-presented Areas

Digitized by Arya Samaj Foundation Chennai and eGangotri

Bull Power 600

A high-priced but average offline UPS

THE SPECS

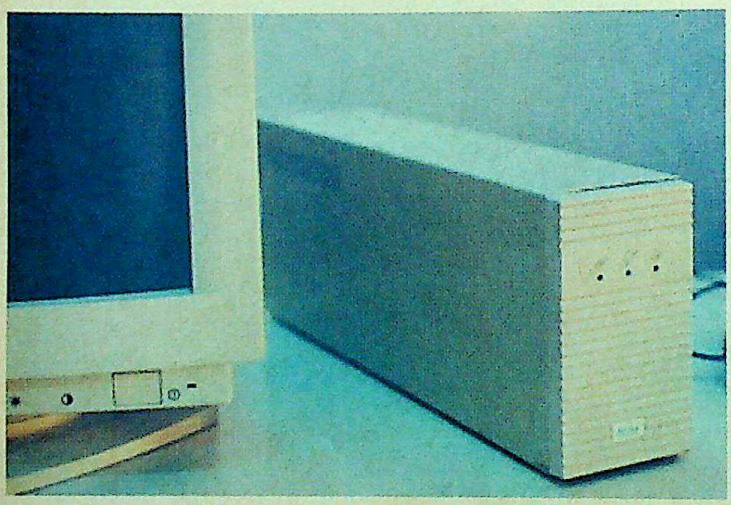
Bull Power 600. This 600 VA off-line UPS ... a software control option. It indicates ... age performance with 77 percent ... 300 watts and could do with better ... tion. Rs 14,250. Reader Query ... #E0540

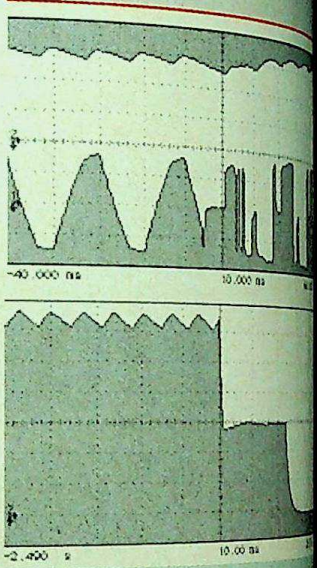
MFR: Bull Power Systems Ltd, 8-3-... Dwarakapuri Colony, Punjagutta, ... bad 500482. Tel: 40-224250 Fax: ... 394074

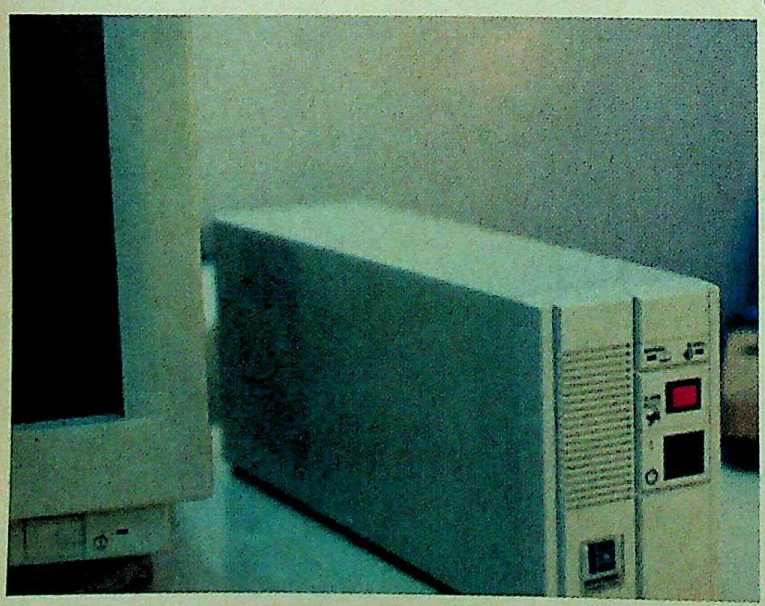
The Bull Power 600 was not a contender for the Editors' Choice, as once you add duties to the basic price, it's outside the range specified.

The Bull's front panel is simple, with just three LEDs. The on-off switch, the two power outlets and the RS 232 port are all on the back panel. Size-wise, this is among the longest UPS's that we reviewed.

The Bull Power 600 emerged an average performer, with a switchover of 6.2 ms and a backup time of 8 minutes. It was able to regulate output to only 15 percent on either side, and had very high battery float voltages. Nor was it able to start an additional 250 VA load on battery and tripped. When short circuited, it survived, tripped and restarted via the on-off.







Emerson Powerlite 250

The Emerson Powerlite 250 VA from Tata Liebert arrived at Labs too late for inclusion in our Shootout. This 250 VA UPS has two 3-pin sockets on the rear panel. Rs 6,000. Reader Query Service #E0541

MFR: Tata Liebert Limited, 18/14, WEA, Pusa Lane, Karol Bagh, New Delhi 110005. Tel: 011-5784706, 5724705, 5744774 Fax: 011-5757601

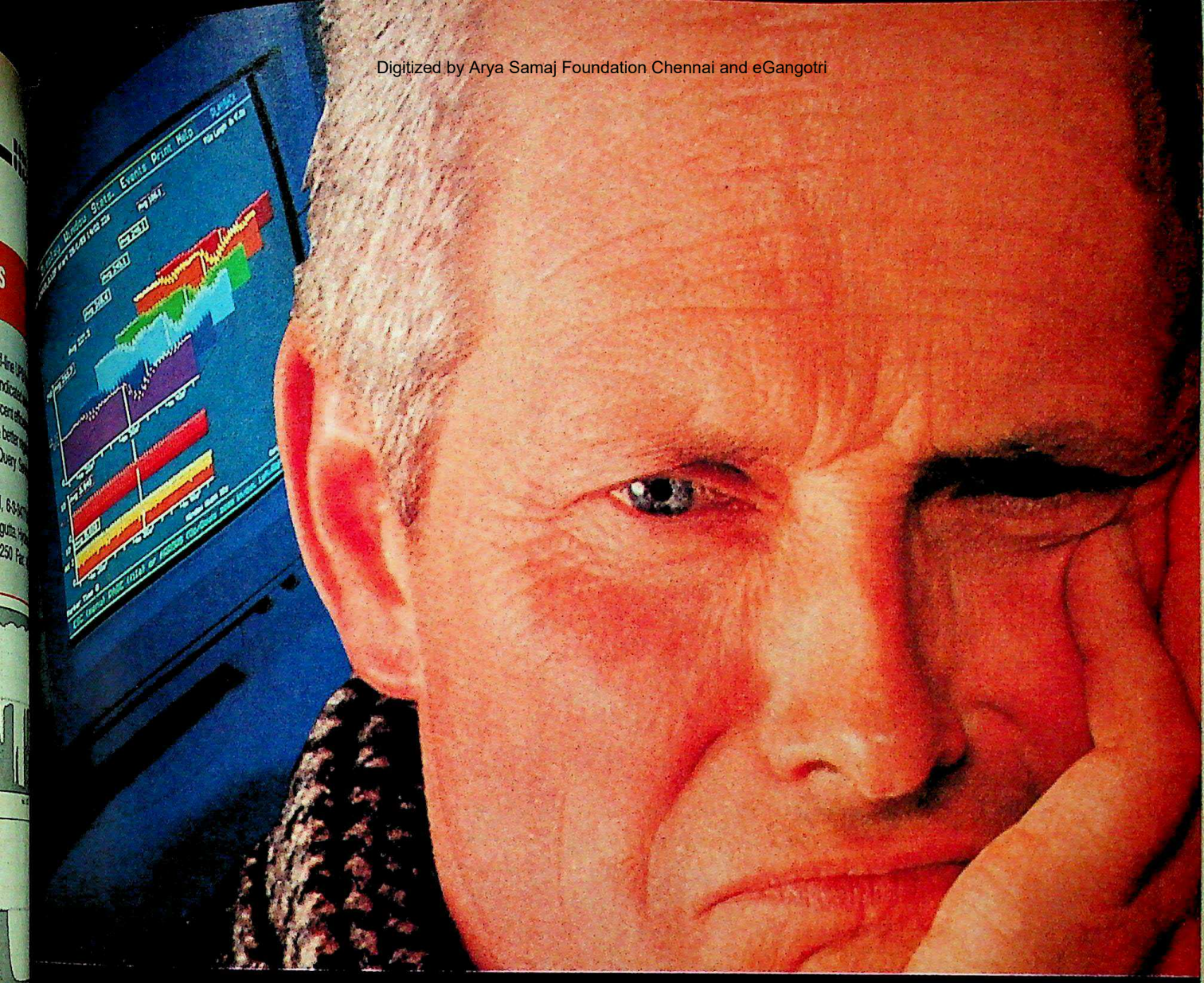
Computer Ware 450S

The Computer Ware 450S also came in too ... inclusion in our Shootout. Interestingly enough, the ... of the OEM is not available from the vendor. This 450 ... has two 3-pin power outlets on the back panel. Rs ... Reader Query Service #E0542

Vendor: Computer Ware, C-1/B Green Park Ext... New Delhi 110016. Tel: 011-6863278 Fax: 011-68...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



POWER FAILURE

Goodbye data, hello headache!

For protection from power failure, get a Tripp Lite battery backup.

Tripp Lite National Distributors in India

Mr. Rajendra Iyer, Gebbs India, Mumbai, Tel : (022) 8362133, Fax : (022) 8350209 **Branches** : Bangalore & Delhi
Mr. Sanjay Acquilla, Godrej Pacific, Mumbai, Tel : (022) 5171166, Fax : (022) 5170415 **Branches** : Ahmedabad, Bangalore, Calcutta, Delhi & Madras • Mr. Snehal Parikh, **Gujrat Hirel Controls**, A'bad, Tel : (079) 409309, (079) 6427622 **Branches** : Delhi & Mumbai • Mr. S. Venkatesan, **Prime Source Technologies**, Madras, (044) 8282239, Fax : (044) 8251247 • Mr. C.A. Vishvanath, **Redington (India)**, Bangalore, Tel : (080) 5538037, (080) 5538035 **Branches** : Calcutta, Delhi, Madras & Mumbai • Ms. Shilpa Jadhav, **Tangerine Informatique**, Mumbai Tel : (022) 8214061, Fax : (022) 8363361 **Branches** : Bangalore, Calcutta & Delhi

Tripp Lite Authorized Service Centres

Mr. Vinod S. Raj, Zener Controls, 49, Cubbon Road Cross, Cubbon Road, Bangalore - 560 001, Ph: 5591843
Mr. S. Padmakar, Online Systems, A105, Arjun Centre, B-5, Devshi Mart, Devonar, Mumbai - 400 088, Ph: 5554830
Mr. Vivek Kumar Agarval, Zener Controls, 11A/7, Old Rajendra Nagar, New Delhi 110 060
Mr. S. Subhankar, Zener Controls, 11, Ganapathy Colony, Off. Chamiers Road, Madras - 600 018, Ph: 435512
Mr. K. Ramanesan, Zener Controls, 2-21-116/A, Napier Lines, Sikh Village, Secunderabad - 500 003, Ph: 811219

TRIPP LITE
THE POWER PEOPLE

SMS/TRP/56/96

CC-0. Mumbai Mahanagar Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

UPS BUYERS GUIDE

Model	Rating (KVA)	Cost (Rs)	Other Information	Vendor (Mfr)
Qualit	0.25	6,000	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Waveforms	0.25	8,000		Waveforms (Waveforms)
Smart 250	0.25	11,500	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)
Qualit	0.35	7,000	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Waveforms	0.35	8,600		Waveforms (Waveforms)
BC400	0.45	8,750		Tripp Lite (Tripp Lite)
Commando 650	0.65	9,820	Software available; SMF Batteries incl.;	SafePower (Value Point)
Qualit	0.75	11,000	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Qualit	0.75	19,500	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Smart 750	0.75	20,200	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)
OmniPro 850	0.85	18,000	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)
Smart 1250	1.25	34,500	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)
Qualit	1.5	19,500	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Waveforms	1.5	25,000	Battery not incl.	Waveforms (Waveforms)
Qualit	1.5	25,500	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Accupower-II	1.5	26,400		Apple Systems (Apple Systems)
USA-1700	1.7	39,000		Space Age (Space Age)
Qualit	2.5	37,300	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Qualit	2.5	37,300	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Accupower-II	7.5	155,000		Apple Systems (Apple Systems)
FA 201B	0.20	7,750		Datex (Datex)
AP 203	0.20	206,944		Tata Liebert (Tata Liebert)
AP 206	0.20	236,844		Tata Liebert (Tata Liebert)
AP 210	0.20	381,396		Tata Liebert (Tata Liebert)
Commando 280	0.25	7,290	Upgradeable; Software available; SMF Batteries incl.;	SafePower (Value Point)
OmniPro 280	0.25	7,500	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)
DP250	0.25	10,200		Datapro Infoworld (Datapro Infoworld)
MSD 300	0.30	7,500		MSD Infosys (MSD Infosys)
MSD 300-AVR	0.30	8,000	Auto-Voltage Regulation	MSD Infosys (MSD Infosys)
LU300	0.30	12,000		Futech (Futech Computers)
DP350	0.35	12,000		Datapro Infoworld (Datapro Infoworld)
TrimLine T-400	0.40	8,300		Elnova (Computer Ghar)
Commando 425	0.40	8,670	Upgradeable; Software available; SMF Batteries incl.;	SafePower (Value Point)
UA-400E	0.40	9,760		Space Age (Space Age)
400N	0.40	9,950	SMF Batteries incl.; CST Extra; I-yr warranty	AMI (United Informatics Ltd)
400N	0.40	9,950		United Informatics (United Informatics)
MSD 420	0.40	9,990		MSD Infosys (MSD Infosys)
PL 400	0.40	13,041		Tata Liebert (Tata Liebert)
Smart 400	0.40	14,000	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)
Accumini	0.40	15,000		Apple Systems (Apple Systems)
AP 410	0.40	507,700		Tata Liebert (Tata Liebert)
AP 420	0.40	565,000		Tata Liebert (Tata Liebert)
Qualit	0.50	9,500	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)
Aeon 500 ECO	0.50	11,000		Quantum Power Systems (Computer Factory)
Aeon 500 EXT	0.50	11,000		Quantum Power Systems (Computer Factory)
Aeon 500 AB	0.50	11,000		Quantum Power Systems (Computer Factory)
Aeon 1000 STD	0.50	11,000		Quantum Power Systems (Computer Factory)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

UPS BUYERS GUIDE

Rating (KVA)	Cost (Rs)	Other Information	Vendor (Mfr)	RQS No
0.50	14,700		Datapro Infoworld (Datapro Infoworld)	E0597
0.50	15,500	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)	E0598
0.50	16,500	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)	E0599
0.50	17,820		Apple Systems (Apple Systems)	E05100
0.50	44,500		Waveforms (Waveforms)	E05101
0.60	11,000		United Informatics (United Informatics)	E05102
0.60	11,950	SMF Batteries incl.; CST Extra; 1-yr warranty	AMI (United Informatics Ltd)	E05103
0.60	12,000		MSD Infosys (MSD Infosys)	E05104
0.60	13,500		Waveforms (Waveforms)	E05105
0.60	13,840		Space Age (Space Age)	E05106
0.60	14,500	Battery not incl.	Waveforms (Waveforms)	E05107
0.60	14,750		Datex (Datex)	E05108
0.60	15,500		American Power Corp (Vintron)	E05110
0.60	16,500	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)	E05111
0.60	17,000		Apple Systems (Apple Systems)	E05112
0.60	18,382		Tata Liebert (Tata Liebert)	E05113
0.60	33,963		Tata Liebert (Tata Liebert)	E05114
0.75	17,200		Datapro Infoworld (Datapro Infoworld)	E05115
0.80	11,090	Software available; SMF Batteries incl.;	SafePower (Value Point)	E05116
0.80	14,000	SMF Batteries incl.; CST Extra; 1-yr warranty	AMI (United Informatics Ltd)	E05117
0.80	14,000		United Informatics (United Informatics)	E05118
0.80	17,250		Datex (Datex)	E05119
0.90	26,500	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)	E05120
0.90	40,016		Tata Liebert (Tata Liebert)	E05121
1.0	11,000		Quantum Power Systems (Computer Factory)	E05122
1.0	14,000	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)	E05123
1.0	17,000		Waveforms (Waveforms)	E05124
1.0	17,600		Quantum Power Systems (Computer Factory)	E05125
1.0	20,500	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)	E05126
1.0	22,000		Apple Systems (Apple Systems)	E05127
1.0	22,000	Battery not incl.	Waveforms (Waveforms)	E05128
1.0	22,000	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)	E05129
1.0	23,000		Datex (Datex)	E05130
1.0	28,000		Datapro Infoworld (Datapro Infoworld)	E05131
1.0	57,468		Tata Liebert (Tata Liebert)	E05132
1.2	25,250		Datex (Datex)	E05133
1.4	54,649		Tata Liebert (Tata Liebert)	E05134
1.5	74,555		Tata Liebert (Tata Liebert)	E05135
2.0	23,000	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)	E05136
2.0	34,000	Battery not incl.	Waveforms (Waveforms)	E05137
2.0	42,000		Apple Systems (Apple Systems)	E05138
2.0	55,500	Taxes Extra	Tripp Lite (Modi Peripherals Ltd)	E05139
3.0	31,000	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)	E05140
3.0	75,000		Apple Systems (Apple Systems)	E05141
4.0	65,000	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)	E05142
4.0	65,000	ST & CST not incl; Ex-Madras	Qualitronics (Qualitronics)	E05143
5.0	98,000		Apple Systems (Apple Systems)	E05144

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Prices Supplied By:

Aegis: TVS Electronics, 10-B Phase I, Peenya Industrial Area, Bangalore 560058. Tel: 80-8395000. Fax: 80-8396334

AMI: United Informatics Ltd, Pal Mohan Sadan. 26/32 East Patel Nagar, Rajendra Place, New Delhi 110008. Tel: 011-5577305, 5751505, 5763558. Fax: 011-5741404

APC: Vintron, F-34 Okhla Industrial Area, Phase 1, New Delhi 110020. Tel: 011-6814520, 6813680, 6811980. Fax: 011-6810469

Apple Systems: Apple Systems Pvt Ltd, 258 C Rashbehari Avenue, Calcutta 700019. Tel: 033-2408625, 2408626. Fax: 033-2408626

Datapro Infoworld: Datapro Infoworld Ltd, 113/1 Koregaon Park, Pune 411001. Tel : 0212-638975, 630326. Fax: 0212-634016

Datex: Datex Electronics Pvt Ltd, T-1512/1, Bhishma Pitamaha Marg (Opp Sachdeva PT College, Defence Colony), New Delhi 110049. Tel: 011-4621031, 4602457. Fax: 011-4621931

Elnova: Elnova Pvt Ltd, 41 Okhla Phase II, Scheme III, New Delhi 110020. Tel: 011-6917626, 6846147. Fax: 011-6841164

Futech: Futech Computers, AF-4, New Empire Industrial Estate, Kondivita Rd, JB Nagar, Andheri (E), Mumbai 400059. Tel: 821936. Fax: 82140060, 821936

MSD Infosys: MSD Infosys Ltd, Bhora Enclave, Near Outer Ring Road, Paschim Vihar, New Delhi 110041. Tel: 011-5577305, 5577306. Fax: 011-5688380

Qualitronics: Qualitronics, 3 Jawaharlal Nehru Road, Ambal Nagar, Ekkaduthangal, Madras 600097. Tel 044-275975, 275761. Fax: 262106

Quantum: Computer Factory, 705 Mount Road, Continental Plaza, Bangalore 560001.

SafePower: Value Point, 304 Bajaj House, III Floor, 97 Nehru Place, New Delhi 110019. Tel: 011-6470708, 6484404

Space Age: Space Age Electro Offiquipments Ltd, 16 Ganesh Chandra Avenue, Calcutta 700001. Fax: 033-262106

Tata Liebert: Tata Liebert Ltd, Nelco Complex Mahakali Caves Rd, Andheri (E), Bombay 400093. Tel: 011-8377449, 8300532. Fax: 8387335, 8377449

TrippLite: Modi Peripherals Pvt Ltd, 103-104 Skipper Corner, 88 Nehru Place, New Delhi 110019. Tel: 011-6461229, 6431016. Fax: 6425958

United Informatics: United Informatics Pvt Ltd, Pal Mohan Sadan, 26/32, East Patel Nagar, Rajendra Place, New Delhi 110008. Tel: 5751505, 5763558. Fax: 011-5741404

Waveforms: Waveforms, 24 North Mada Street Srinagar Colony saidapet Madras 600015. 044-667363.

Continued from page 56

Then decide the minimum backup time you need.

Avoid the temptation of padding the estimates to "feel safe", as you have to pay dearly for every minute of backup time. You do need to add a margin of 25 percent for battery aging.

Estimate, or ask electricians or other knowledgeable people about the behavior of the line voltage in your area. Some areas are chronic low voltage ones, whereas others have a healthy or high mains voltage. Based on this, estimate the line voltage range over which your UPS must be able to operate your equipment, with a voltage within ±10 percent of normal. If you are unable to get any clear estimate, then 170V...270V is a good range to work with.

Evaluate vendor offerings against your requirements. If you are going to operate a network, then you would also want to consider the software offered by the UPS vendor to allow smooth, unattended network shutdown.

Plan the electrical wiring. For a multicomputer network, try to isolate the incoming mains line from other heavy loads. It pays to have the wiring checked for loose connections (a common occurrence with aluminium wiring). If possible, have a copper wire line laid from the nearest distribution panel to the network's mains power supply. Try to minimize the length of noise-prone serial interface cabling. Parallel printer cables are not a problem, as the high speed parallel interfaces are specified for cable lengths of only a meter or two. Keep network cabling as far away from mains power lines as possible.

Finally, irrespective of the type of UPS you have purchased, it generally pays to add a spike filter power strip to your UPS output.

What all can you run off your UPS? You can run your entire PC, provided the UPS is sufficiently rated for the PC plus monitor. However, where you have a small UPS (say a 500 VA, and you have three small PCs with color monitors to run) one way out is to connect your PCs to the UPS and monitors to the mains. That way, you'll protect all three systems from glitches, surges and sags, but if there's a power outage, you'll just have to do a "blind save and shut down" convenient, but economical, es... if you simply want to protect ... many small glitches—or, wher... know a backup generator will co... within minutes of a mains fail...

You can run light printers ... UPS—DMPs and inkjets are ok... check the VA ratings. Lasers are ... never run off UPS systems, th... can run the lighter ones, such as ... which uses a low-power fuser ... gine, off a 1 kVA UPS. On the ... hand, PCQ's production dep... runs even high-end Linotronic ... tters and development units ... of 6 kVA of online UPS backup ... essentially need to ensure ... have sufficient rating.

You can usually also run a ... with an ordinary incandescent ... bulb off the UPS—tubelights ... fluorescents are not recommend... your computer power line—they ... noise source.

<agarwala@iddc.iitd.ernet.in>
IDDC, I...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The new Compact Range of ZOOM *fax* MODEMS
They're causing a Storm Worldwide !

ZOOM fax MODEMS. From Zoom Telephonics Inc., USA. The world's fastest growing manufacturer. Leaping to a phenomenal growth of over 42% for the year ending 1995. With manufacture and sales of Zoom Fax Modems shooting over **One million** during the year! An achievement only a few select world leaders can boast of.Literally causing a storm worldwide. **Now ready to create a storm in India !**

☑ ***Independent tests carried out by PC World, February 1996 rated ZOOM as the "Best Buy" among 12 competing 28,800 bps PCMCIA faxmodems.*** ☑ ***ZOOM's V.34 external faxmodem just won PC Professionell's "Best Buy" in Germany as compared to 13 other faxmodems.*** ☑ ***And in Infoworld's recent tests, ZOOM's V.34 PCMCIA faxmodem was rated above the market share leaders.***

Marketed & Serviced by:

ADROIT TECHNOLOGIES LTD.

P. O. Box : 4944, B-4/115, Safdarjung Enclave, New Delhi-110 029
Phone : 6871353/6871553/600132 Fax : 91-11-6117576
E-Mail : zoomdel. adroit @ sm8. sprintrpg. sprint. com
zoomdel. adroit @ axcess. net.in

Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

NETWORKING MASTERS '96

Networking is today one of the fastest growing industries, leveraging the information technology marke

For the first time *Voice & Data* brings you **Networking Masters '96** - a detailed anal on the performance of networking leaders (by turnover for FY 1995-96).

The **Networking Masters '96** issue will also provide vital information on :

- Companies that are leading the networking products market
- Roles and opportunities for network integrators - at the national and regional levels
- Emerging niche's in the networking products market
- A detailed breakup of the networking components market.

This collectors issue will also analyse new areas which offer opportunities for networking companies the weeks and months ahead...

And how companies will be re-positioning, to outdo competition!

Networking Masters '96 is going to be a one-of-its-kind referral issue - containing first ever survey of the Indian networking components marketplace.

brought to you by

VOICE & DATA

INDIA'S LEADING COMMUNICATIONS MAGAZINE

Read all about it in the

June, 1996 issue. *Book your copy NOW !*

For AD BOOKINGS/LIMITED SPECIAL POSITIONS/SPECIALISED MAILING call your nearest *Voice & Data* office :

Bangalore-Bhaumik—Tel. : (080)551 1511, 556 8238, Fax : (080) 556 2971 **Bombay - Sudhir**—Tel. : (022) 645 0051, 642 7910, Fax : (022) 640 3986 **Delhi - Rachna**—Tel. : (011) 641 6315, 647 6664, Fax : (011) **Madras - Anil**—Tel. : (044) 247 1285, 40 6492, Fax : (044) 40 8423 **Hyderabad - Krishna**—Tel. : (040) Fax : (040) 81 6960 **Calcutta - Partha**—Tel. : (033) 247 1285, 40 6492, Fax : (033) 40 8423

Or, Contact :
Venayak Bhatnagar, D-14, Panchsheel Enclave, New Delhi-110017
Tel. : (011) 643 3999, 643 5999, 641 3938. Fax : (011) 647 5765

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HP DeskJet 200

This minor upgrade replaces the DJ 400, with low-cost ink and better software

The DJ 400, which we first previewed at San Diego last August, and which came to India in late 1995, is a compact desktop inkjet—P's cheapest ever. It's aimed at markets ere the DeskJet Portable is used as a sktop because it is the cheapest HP kjet going. HP took its popular portable, moved the portability features (includ- the battery and other frills) and made s a personal inkjet printer with a street ce of Rs 10,000.

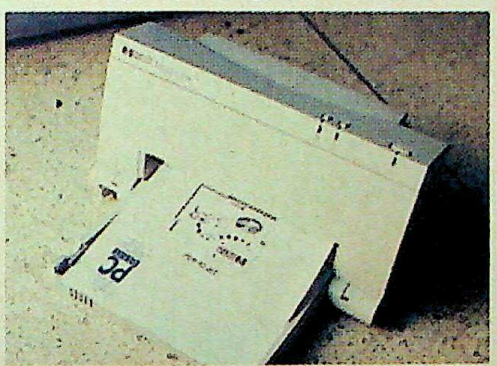
Now HP is shipping the DJ 200 from y 1, the quickest "upgrade" ever to a nter, within months of introducing the skJet 400 (and just a week after we ught three DJ 400s at PCQ).

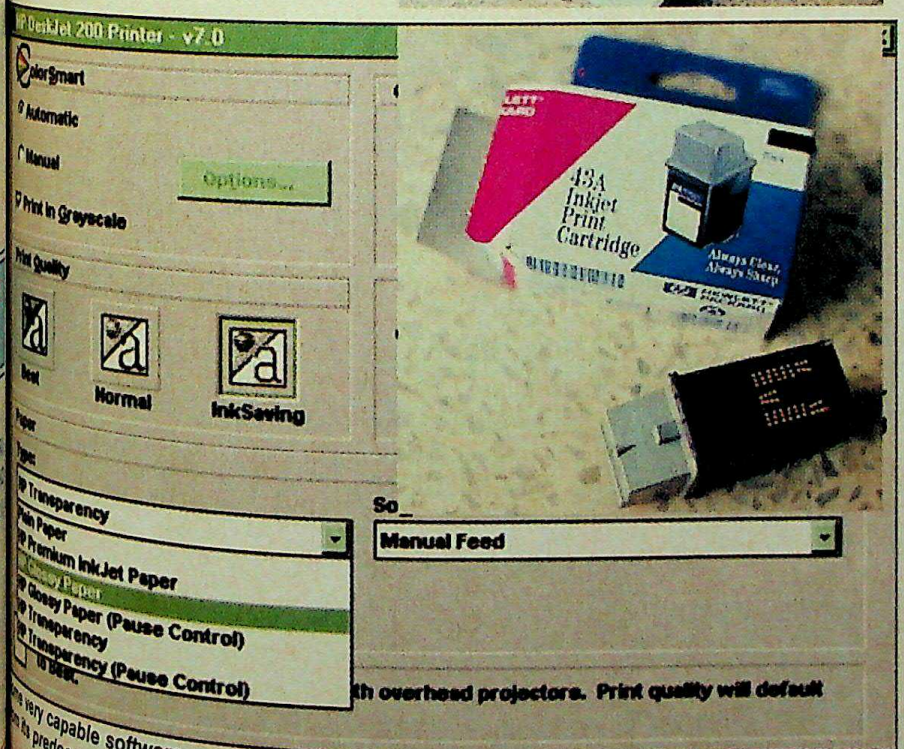
The DJ 200 looks, feels and performs actly like the DJ 400, uses the *same* ginal color cartridge, and will cost the me.

So what's new about the DJ 200? In sence, it uses a cheaper *black* cartridge—about Rs 900 for 500 pages.

There's also some very capable software with ColorSmart controls and an ink-saving EconoFast setting. This works perfectly well with the older DJ 400, so if you'd bought one of those, get a software upgrade, if you can.

There's intelligent two-way communication: try printing in grayscale with the color cartridge installed, and your PC will warn you and a cute inkdrop character will look animated, happy or sad depending on the printer status and errors. It's a little too dominating—if you want to print a black-text document with the color cartridge installed, sorry, you'll be nagged until you change back. But it works very well, and is dummy-proof for novice or home users.





Some very capable software and a cheaper black cartridge distinguish this compact printer from its predecessor

Print quality is good with text and line-art, and the EconoFast mode is a useful and effective ink-saver. EconoFast isn't usable with photos.

With the same mechanism as the DJ 400, this printer too is susceptible to dust. This results in erratic paper feed and makes the paper path prone to jams. You need to keep it well-covered when not in use. However, the straight-through manual-feed slot (for thicker paper and transparencies) always works.

We wondered if this "breakthrough" black cartridge could plug into the older DJ 400. It couldn't, thanks to a little plastic tab that HP has cleverly built on the new cartridge to mate with a notch in the DJ 200's holder. So if you're a DJ 400 user, you're apparently stuck with the older cartridges.

Overall, this is a very low cost inkjet that gives you good and cheap black text, and a color option. Very good value.

PKR at PCQ Labs

THE SPECS

PRODUCT: Hewlett-Packard DeskJet 200. Personal desktop inkjet printer. 300 dpi. Mono; optional three-color cartridge. 50-sheet tray, plus manual straight-through feed.

FEATURES: Low-cost black cartridge. Optional color. ColorSmart software with 150 dpi ink-saver draft setting. Works with transparencies and envelopes.

PRICE: Rs 10,900 list.

SUMMARY: A compact, well-designed inkjet printer that's now cheaper to run. The upgrade is minor, but it's very good value for the home or for personal use at office.

VENDOR: Hewlett-Packard India Ltd, Paharpur Business Centre, 21 Nehru Place, New Delhi 110019 Tel: 11-6472351, 6472328-30, 6472355 Fax: 11-6461117

Reader Query Service #E0522

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SLEEPLESS NIGHT

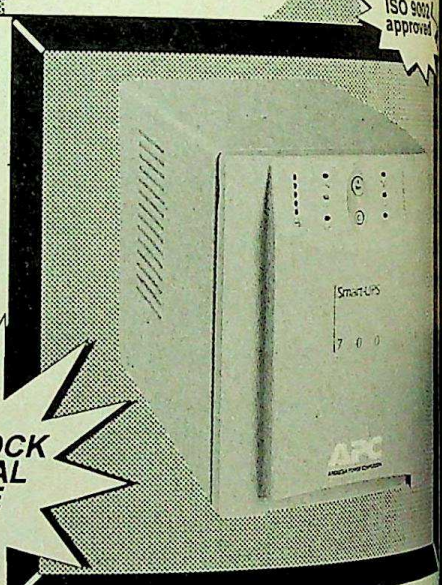
Thinking of Valuable Data on Server

HAVE PEACE OF MIND THROUGH

SMART-UPS

SMART SOLUTION FOR SERVERS

ISO 9002 approved



A) INTELLIGENT INTERFACE WITH SERVERS
B) COMPATIBLE WITH MOST NETWORK OPERATING SYSTEMS
C) MULTIPLE SERVER SUPPORT
D) INTELLIGENT BATTERY MANAGEMENT
E) SUPPORT FOR SNMP
F) PURE SINE WAVE OUTPUT
G) SUPPORT GENERATOR POWER

Range 250 - 5000 VA

EX-STOCK SPECIAL PRICE

yes NetWare Tested and Approved
Solaris COMPATIBLE
Lotus. BUSINESS PARTNER
Microsoft LAN MANAGER CO-DEVELOPER
yes It runs with UnixWare
SCO
ARTISOFT COMPATIBLE LANtastic
Microsoft SOLUTION PROVIDER

APC PRODUCTS HAVE WON MORE AWARDS FOR PERFORMANCE THAN ALL OTHER UPS VENDORS COMBINED!

APC™
AMERICAN POWER CONVERSION

BROUGHT TO YOU IN INDIA BY
VIDUR & CO. PVT. LTD.
707, Manjusha, 57, Nehru Place, New Delhi-110019
Phone : 6223085, 6404215, 6404216, Fax : 6219153

SALES & SERVICE SUPPORT AVAILABLE IN ALL MAJOR CITIES

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Lotus SmartSuite 96

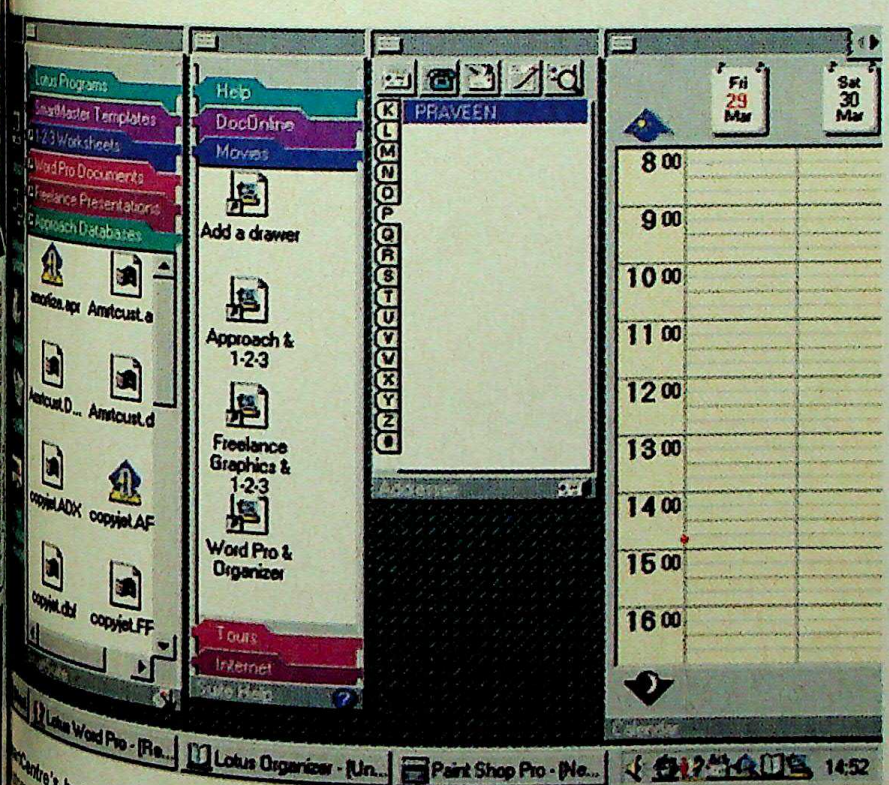
Despite two 16-bit modules, this Win 95 suite retains its fluid integration and its 32-bit apps pack a lot of punch

SmartSuite 96 for Windows 95 is a parallel offering (see 'SmartSuite for Windows', *PC Quest*, April 1996) for Windows 95 users. Our review copy came on 42 floppies, all of which are needed even to selectively install components! A CD-ROM version became available subsequently.

While Approach, Freelance Graphics and SmartCenter have been re-coded and ported to the 32-bit environment, WordPro is just a code-upgrade of the 16-bit version included in SmartSuite 4. And strangely enough, the earlier 16-bit versions of 1-2-3 and Organizer included with SmartSuite 4.0 have been included in this release.

What's New

SmartCenter 96 is a 32-bit version of SmartSuite's task bar and launcher and has many innovative features. **WordPro 96** has the same features of its predecessor, but the recoding gives it a marked performance increase. **Freelance Graphics 96** and **Approach 96** too have been upgraded with new features to 32-bit. And this review focuses only on those components with significantly new features.



SmartCentre's buttons give you access to drop-down drawers, each with tabbed pages, where shortcuts and files

THE SPECS

PRODUCT: Lotus SmartSuite 96. Windows 95 suite, with WordPro 96, Freelance 96, Approach 96, 1-2-3 Release 5 and Organizer 2.1.

REQUIRES: Windows 95 on a 486 with 8 MB RAM/57 MB space, mouse.

FEATURES: 32-bit apps: SmartCenter, WordPro, Approach, Freelance Graphics. Approach has 13 new templates and adds SQL support. LotusScript is BASIC-compatible and can be used with macros to create apps. Freelance Graphics has a rehearse mode, a screen show with animation and multimedia and a business diagramming toolbar. 16-bit apps: 1-2-3 Release 5 and Organizer 2.1 are unchanged.

PRICE: Rs 13,000.

SUMMARY: This suite packs in remarkable power and usability in the new 32-bit apps such as Freelance and WordPro, though it retains the 16-bit Organizer and 1-2-3 versions. SmartCenter is a powerful "control center", with shortcuts to apps. WordPro gains speed; Freelance is now team-aware, and can do remote presentations. Approach adds macros, and tighter integration with the other modules. Overall, a fast, fluidly-integrated suite that's excellent value at this price.

MFR: Lotus Development.

VENDOR: ITC Ltd

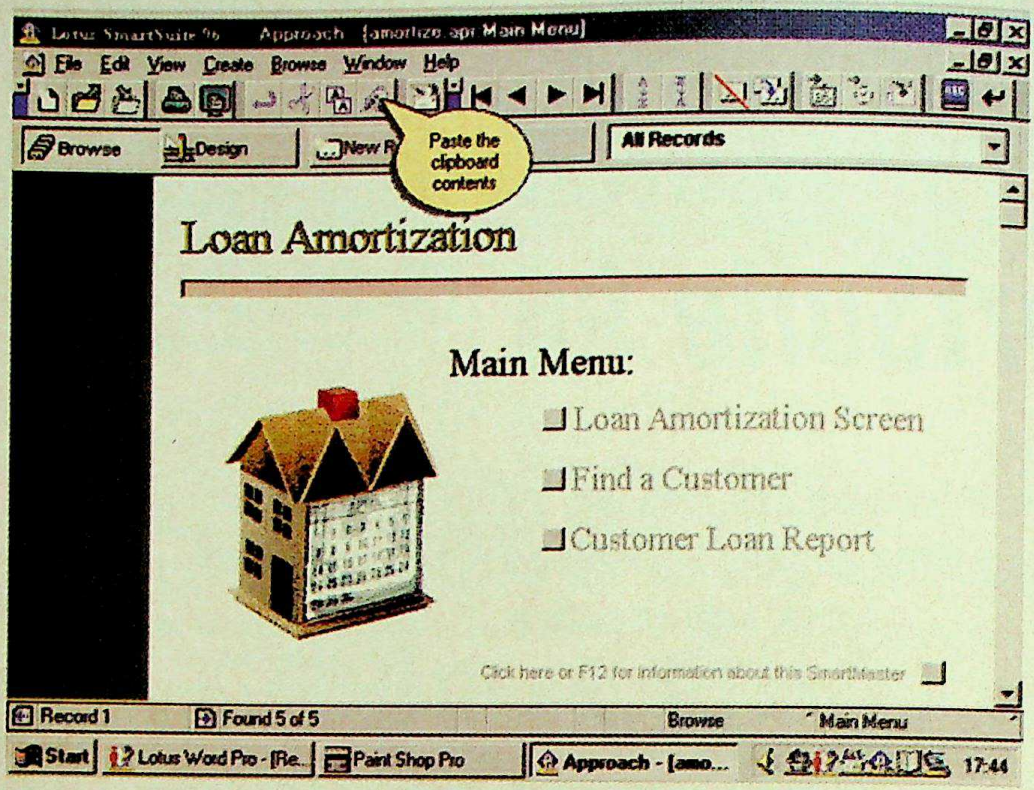
Reader Query Service #E0527

SmartCenter 96

Redesigned to mimic the Windows 95 task bar, it too can be aligned with the top or bottom of the screen. Instead of launching applications, its buttons provide access to a filing cabinet with drop-down drawers, each containing tabbed pages. The drawers hold shortcuts to

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Macros let you create applications in Approach 96

other applications, files, appointments and addresses. You also have direct access to suite components via the tray icons on the Windows 95 task bar.

The task bars are impressive and are elegantly implemented; typical of the innovative approach characteristic of most new products from Lotus.

Approach 96

This is a database that despite limited front-end capability, is easy to use and very capable. Even without a programming language, power users and developers can use macros to create applications, automate tasks and perform calculations that use expressions.

These improvements make Approach a fairly capable DBMS, despite lacking the more advanced features of Access or Paradox. Approach also integrates very well with other suite components. And while competing suites include DBMSes in their Professional editions, Approach ships with SmartSuite's Standard edition itself.

Freelance Graphics 96

This 32-bit upgrade to an already powerful and well-designed product probably makes Freelance the best presentation package on the market.

This is a significant upgrade over Version 2.1 reviewed earlier. Freelance now shares the look and feel of WordPro and Approach, and shares SmartMaster templates, named styles for text formatting, customizable icon bars, status bar, tabbed notebook interface and InfoBoxes. It has also been enabled for workgroup and team computing, and features the tight integration of Lotus' other groupware apps. With this version, Lotus redefines the usability standards for presentation software. Simply stated, the

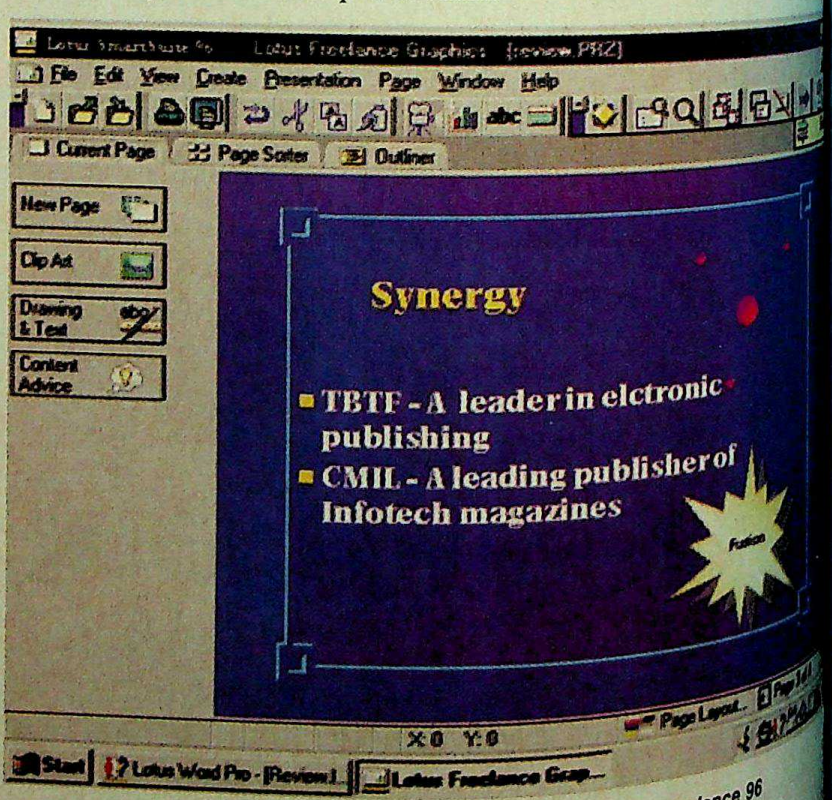
New Features

Approach 96

Thirteen new templates
views and remote scripts
to the existing 50 Smart
plates. The Query-by-Form
has been extended. **Find**
tabbed dialogue is accessible
action bar, and features
for the search type, conditions
order. You can also save your
future use.

Chart Assistant helps
different 2D or 3D charts. You
change the typeface, and add
graphics. Besides graphic
charts can include a title,
end, cross-tab table, and note.
large tables in earlier versions
proach would generate lots of
traffic. Now use the **SQL**
frame a SELECT query and
the needed data set.

LotusScript is a BASIC-
cross-product script that works
SmartSuite modules, and can
with macros to create applications
are also user interface controls
customized lists, check boxes
buttons that earlier versions
in association with database



Use a SmartMaster template to create a lively presentation in Freelance 96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

power

hungri

looking for a little more your PC, you couldn't do to tune in to us. PC Quest is

vibrant, alive network that gives you helpful inputs on everything from choosing the right package

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

to the best peripherals available. So to get more out of your PC, start with getting a PC Quest.

MORE POWER TO THE COMPUTER USER

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YES, I would like to avail of this offer & become a subscriber of PC Quest. I want to subscribe for

	TERM	STAND PRICE	YOU PAY	YOU SAVE
❑	3 Years	Rs. 900/-	Rs. 630/-	Rs. 215/-
❑	2 Years	Rs. 600/-	Rs. 450/-	Rs. 150/-
❑	1 Year	Rs. 300/-	Rs. 240/-	Rs. 60/-

Foreign Subscription Rates
By Air Mail
1 Year US $ 60/-

Enclosed is my cheque/DD No. _____ dated _____
for Rs. _____ drawn in favour of **CYBER MEDIA (INDIA) LTD**
(Add Rs. 15/- for outstation cheques)

From :

Name: _____ Designation : _____
Organisation _____
Address : _____
_____ City: _____ Pin: _____
Phone: _____ Fax: _____

Mail Back to : Cyber Media (India) Ltd., D-74 Panchsheel Enclave, New Delhi-110017
Ph.: 6433999, 6435999, 6413938. Fax: 91-11-6475765

Please help us get to know more about your needs by filling in this form.

A. YOUR JOB TITLE

- ■ MD/President/CEO/Director
- ■ Manager/Asst. Manager
- ■ Cust. Engg./Executive
- ■ Any other_____
- ■ VP/GM
- ■ Analyst/Programmer
- ■ Consultant/Trainer

B. YOUR WORK AREA

- ■ MIS/Computers/Communications
- ■ Marketing/Sales/Gen. Mgmt.
- ■ Any other_____
- ■ Purchase/Finance/Admn.
- ■ Education/Training

C. YOU WORK FOR

- ■ An. I.T. Company
- **WHICH IS IN...**
- ■ Govt. Sector
- ■ Private Sector
- ■ MNC
- ■ A User Company
- ■ Public Sector
- ■ Education / R&D
- ■ Any other_____

D. IF YOU WORK FOR AN I.T. COMPANY, IT IS PRIMARILY IN

- ■ Hardware
- ■ Distributor/Retailer/Dealer
- ■ Training/Consultancy
- ■ Software Development
- ■ Peripherals
- ■ Any other_____

E. YOUR ROLE IN PURCHASE OF COMPUTERS

- ■ Approving
- ■ Defining Specifications
- ■ None
- ■ Recommending
- ■ Purchase Formalities

F. PLANNED PURCHASE (NEXT ONE YEAR)

- ■ PCs
- ■ Lan/Data Comm. Equipment
- ■ Software Packages
- ■ Any other_____
- ■ Servers
- ■ Custom Software
- ■ Peripherals

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

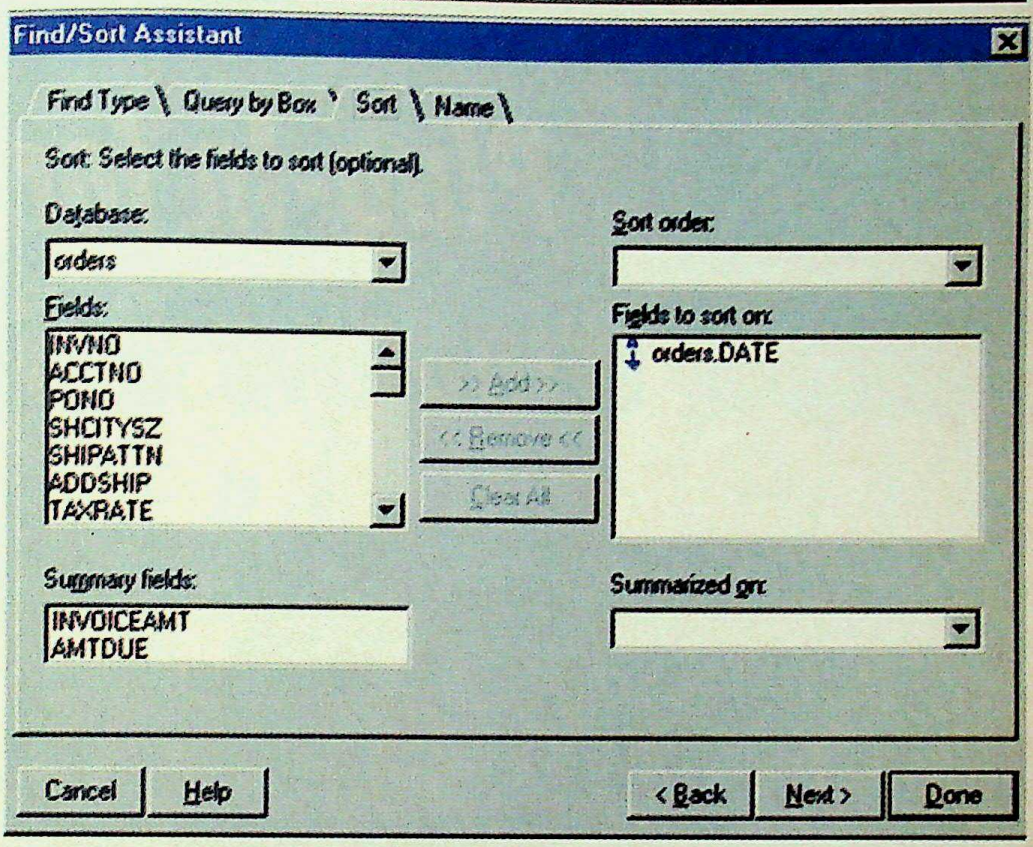
...s and scripts now display forms as ...log boxes, just like traditional DBMS ...ronments. And **Team Security** ...kes it possible to restrict access to ...les and design documents.

...eelance Graphics 96

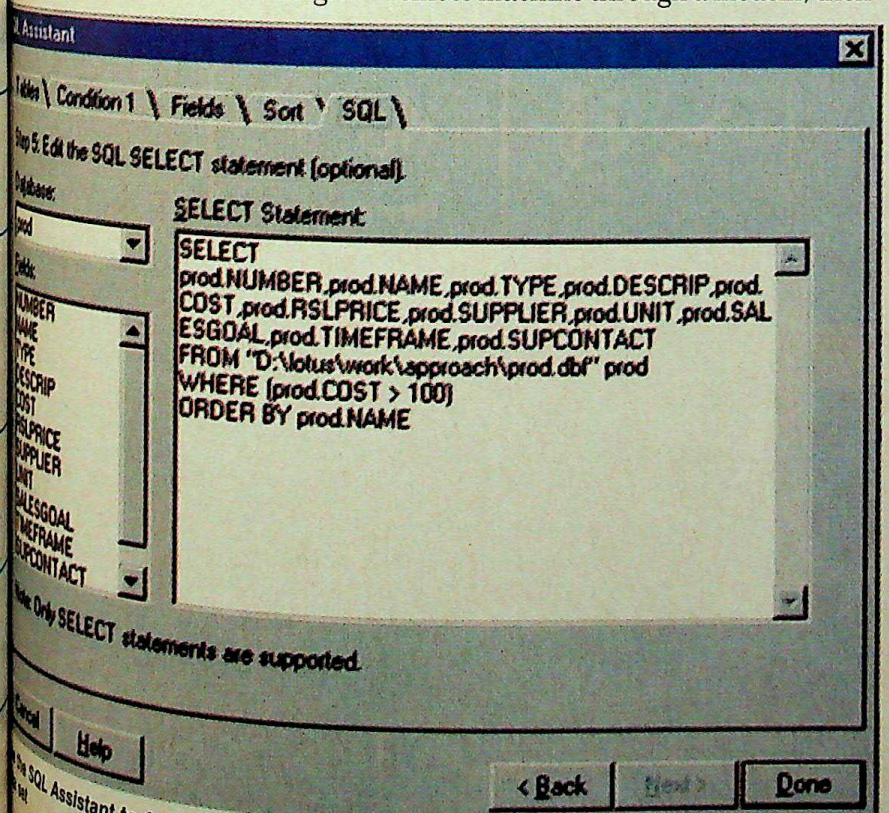
The detailed implementation of ...artMasters is impressive and you can ...ate new presentations using any of ...30 templates, each with 120 back-...unds, up to 30 pre-formatted slides, ...d 12 different layouts per slide. Also ...w is the **Rehearse Mode** to practice ...sentations and monitor elapsed time. ...the end, Freelance summarises the ...e taken overall and slide-wise. The ...reen show is now customizable and ...pports animation and multimedia ef-...ts. You can also control transition for ...es and individual objects. A new draw-...and text toolbar to lets you create ...siness diagrams and flowcharts. And ...Boxes now allow for easier test for-...ting.

Team Computing is available from ...File menu. Most corporate presenta-...s are composed of inputs from a team ...Freelance lets you draft presenta-...s before using TeamMail to send it to ...r colleagues for comments; attached ...ectronic 'sticky' notes. All the inputs ...be later consolidated into a single file. And Lotus Notes' users can post presentations into a special database for the whole team to review simultaneously.

You can make presentations remotely using **TeamShow.** First connect to the remote machine through a modem, then transfer the presentation and finally run (and control) it from your computer. And you can also use a second phone line to provide a voice-over.



The Find Assistant extends query-by-form and can be accessed from the Action bar



...SQL Assistant to frame a query and select only the required

What Next

Word processors are important, and WordPro's bold and innovative approach redefined industry standards. Competing products now contain features that WordPro pioneered.

At PCQ Labs we have seen WordPro evolve from a 16-bit Beta through a 16-bit production version, and finally to a 32-bit version. But we were disappointed to find it locks out the growing developer segment because it can't create .RTF Help files.

Other than this, the other 32-bit apps in SmartSuite 96 display the same bold innovation of WordPro, and SmartCenter is probably the best office manager. Approach stands in a class of its own and Freelance Graphics is a delectable presentation package. We would have preferred 32-bit versions of Organizer and 1-2-3 included in SmartSuite 96, but phased upgrade policies have their merits too.

SmartSuite 96 is an excellent buy for corporate users, especially Notes users, who have migrated to Windows 95.

VK Thakur at PCQ Labs

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Plug-In for Windows 2.6

THE SPECS

Plug-In for Windows 2.6. PLUGIN.ZIP on
Online. Plannet Crafters Inc; $20
tion.

A shareware desktop shell and Program
ager replacement with options for
cursors, title bar, alarms, talking
screensavers.

This customizing shell gives a new look to Windows

With Plug-In you can sound a cuckoo alarm every minute, change your drab arrow cursor to a magic wand or do away with Windows' Program Manager.

Plug-In from Plannet Crafters, is a shareware utility that allows you to personalize your Windows desktop. You can also use it as a shell instead of the default Program Manager. Though version 2.6 works under Windows 3.1 and later, it's not really optimized for Windows 95, and an upgrade is in the offing.

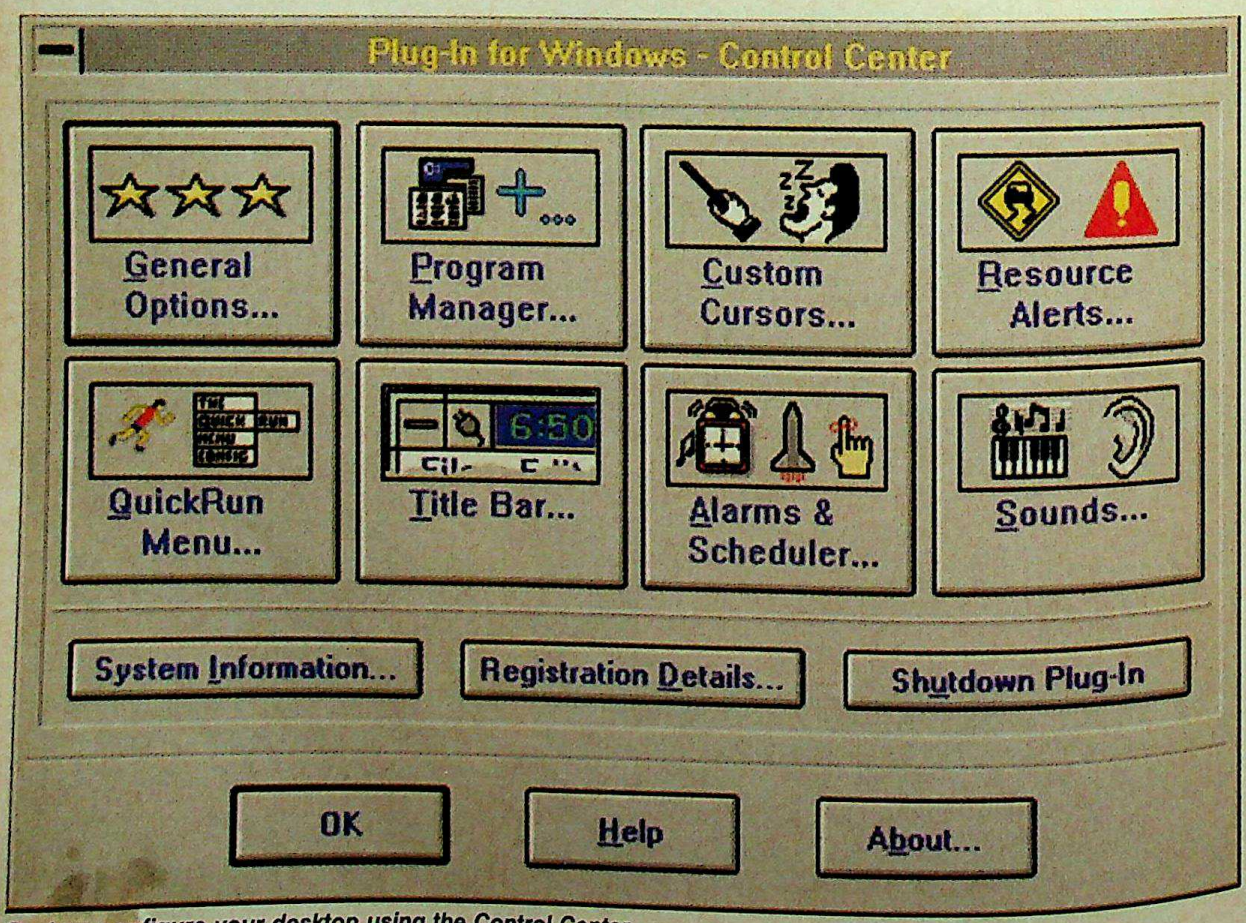
You can set up Plug-In to load up with Windows, or access it later by clicking the Power Plug icon in the Accessories Group. The Control Center is the program's centre from where you can select different options. Custom Cursors lets you change your basic cursor shape, the hourglass Wait cursor, the I-Beam cursor, and enable cursor wrap at screen edges.

You can also keep a check on system resources including memory and
space by setting alarms and
alerts. Or to break the monotony
(and perhaps get angry looks from
workers) you set a piercing wail to
cate low memory. The Title bar too
configured to display the date, time
memory, resources, stop watch or
ing at all.

Windows users can integrate Plug-In with Program Manager. The screen
options available include assigning a
hotkey to activate the screensaver
also makes a very effective "Boss
But the Instant On-Instant Off
saver option is how
rather tricky. It's
posed to activate
screen saver when
position the mouse
sor at the lower
the screen and
it altogether
at the lower right
ally, you are left
ing for the exact
left corner before
screen saver comes

Plug-In does
actly overwhelm
with features.
from setting up
changing cursors
configuring the
there's little else
ever, there are
options to let you
figure the software
self. Plug-In's
a nice leisure
than something
rious use.

Asawari Kelkar



Custom configure your desktop using the Control Center

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Unleash Your Hidden Talent

ENTER THE

CSI-96 IT QUIZ

WIN THE CSI-96 TROPHY AND OTHER ATTRACTIVE PRIZES

Terms & Conditions

Open to established corporate houses and registered companies

A team consists of two contestants.

A company can enter a maximum of two teams per region

The entry fee of Rs.500/- per team

Entries to reach by 15th May 1996

Right to allow participation at the sole discretion of CSI

The preliminary round (written) will be held at Ahmedabad, Bangalore, Calcutta, Hyderabad, Madras, Mumbai, New Delhi and Pune. Other centers dependent on response.

For further details contact the CSI-96 Quiz Office.

Hurry, enter today!

Send your entries by giving the names and designation of the contestants on the company letterhead along with a Demand Draft drawn in favour of **'CSI-96'** payable at Bangalore towards participation fee to the following address.

Final rounds may be telecast

CSI-96 QUIZ

Computer Society of India,
201 MBC,134, Infantry Road, Bangalore 560 001.
Tel : 080-571215 Fax : 080-5562971

CSI-96 Theme - India : The emerging IT giant.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

What the best keyboards in India Market have in common

	MICROTEK	TVSE
Keyswitch	Cherry Germany MX1A - E1NN	Cherry Germany MX1A - E1NN
Keytops	Double Injection Imported	Double Injection Imported
Keyboard Controller	Intel	Intel
Cable	Coiled, Moulded High Quality	Coiled, Moulded High Quality
Cabinet	Sleek, Ergonomical	Sleek, Ergonomical
Workmanship	World Class	World Class
Functioning	Smooth & Gentle	Smooth & Gentle
Approvals	FCC class B U.S.A.	FCC class B U.S.A.
Warranty	2 Years	2 Years

Over 60,000 Keyboards sold by Microtek in less than one year

NOW!

MICROTEK's LONG LIFE KEYBOARDS ONLY

Rs. 1225/-

(ALL INCLUSIVE ANYWHERE IN

Mtek KEYBOARDS

BEST TECHNOLOGY AT YOUR FINGERTIPS™

FULL VALUE FOR YOUR MONEY

Mtek MICROT

OEM suppliers to :- *PCL, ALTOS, Modi Olivetti, CALS, DCM, PCS, ET & T, CMC, L & T & O*

AVAILABLE AT : AMRITSAR - R.K. COMPUTER 292926. BANGALORE-MICROTEK: BOMBAY-MICROTEK : 8392971 CHANDIGARH - IBM - 605839 DELHI - PULSE SYSTEMS JALLANDHAR - SYNDICATE COMPUTER 227124. JAIPUR - EXPERT COMPUTER - 372993, C.S INFOTECH MADRAS -MICROTEK-: 8556105 NAGPUR - MAYUR COMPUTERS 535127, K.K. COMPUTERS PARWANOO-MICROTEK : 33383 PUNE - BLUE POINT POWER LINES

DEALERS ENQUIRIES WELCOME FROM UNREPRESENTED AREAS :

FAX TO : 011-5472907,5472659, 01792-33381, 044-8556105, 022-8392971.

MICROTEK SERVICE CENTERS/DEPOTS :- DELHI: 011-5475365 BOMBAY: 022 - 8392971 MADRAS: 044-83251

BANGALORE: 080-628176/6600417 PARWANOO/CHANDIGARH : 01792-33383

Incase of any difficulty please fax to :- 011-5472907, 5472659 (Head Office), 01792-3381, 044-8556105, 080-6602143,

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CEO

A simulation game as trying as its memory needs

CEO promises to let you lead the planet's most powerful mega-corporation. The game's plot appears based on games such SimCity or Tycoon.

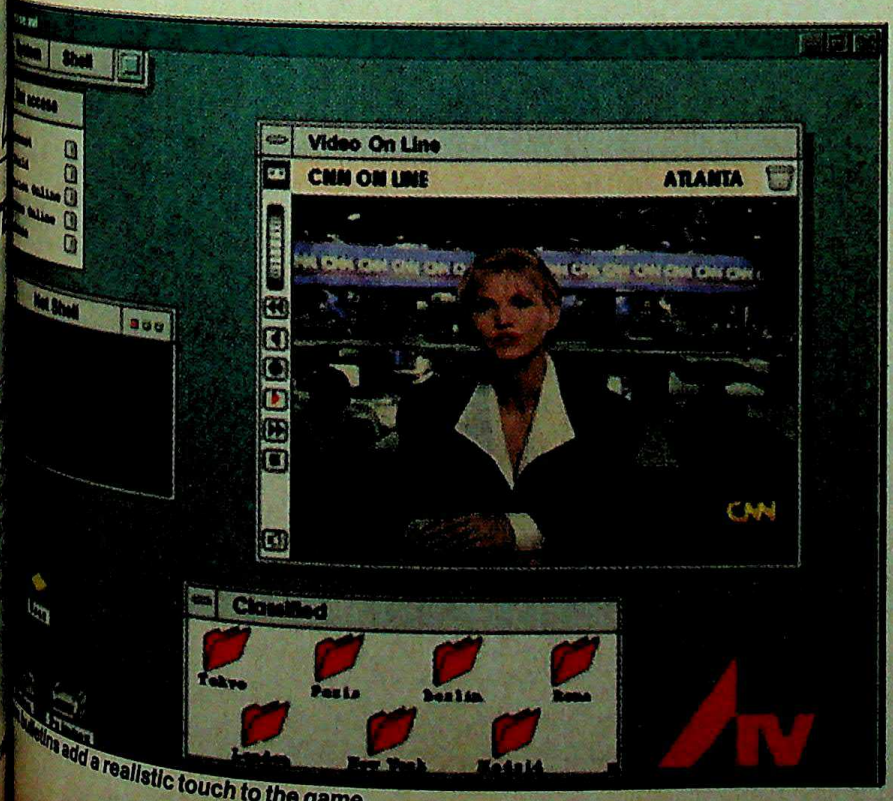
Jointly developed with CNN, CEO ins with an attractive intro with chy music. This is shortly followed a CNN news clip reporting the death A-IV Corp's CEO and ongoing culation about his successor. the new boss, you have to imize A-IV's profits and prove r mettle. But you first need to ld A-IV Corp's foundations in e area selected.

The game offers a choice of ions, ranging from crowded s such as Berlin and Paris, to ding from the ground up in "virgin" Cayman Islands.

The game's memory require-nts are quite demanding. We got it up and running after a lot of tweaking. The Winstall program (included separately on the CD-ROM) is supposed to let you run CEO under Windows. But during our tests, the game didn't set itself up properly under Windows 95.

If you're not a regular gamer, it will take you a while to get used to the rules and strategies. Each move is bound by specific rules. These apply to building roads and rail tracks, buying houses or scheduling buses. If you don't 'go by the book' things don't work the way they should. The pop-up messages can be really annoying when scheming to get ahead. Context-sensitive help would really improve the game.

Control your game ambient light using the day and night settings



Buildings add a realistic touch to the game

To navigate your game area, CEO has eight movement arrows. There's also a window at the top right for a satellite view. Though these controls are usable, a quick navigation facility would improve perspective. CEO also has an option for making the background music vary with the seasons, but we couldn't get any music, except for vocalized pop-ups! This was a real downer after the impressive intro.

Simulation games are supposed to give you a feel of real life. But mundane activities such as bus scheduling (not quite the job of the top brass) lose points for CEO. A better plot, with more realistic settings would have made playing CEO far more enjoyable.

Asawari and Anil at PCQ Labs

THE SPECS

PRODUCT: CEO, a DOS-based simulation game

REQUIRES: 486DX2 or higher, 4 MB RAM (minimum 570 kB free conventional memory and 2.7 MB free EMS), 18.5 MB free disk space, DOS 3.0 or later, 2X CD-ROM drive, sound card SVGA color and mouse

FEATURES: Simulated stock market dealings, road and rail construction, real estate trading and mega projects to manage a virtual conglomerate.

PRICE: Rs 1,595

SUMMARY: CEO is a simulation game with a standard plot. Despite a a slick intro, it needs a help option and easier movement controls.

DVP: I Motion Inc with CNN Interactive
VENDOR: LAN Multimedia, 111, Marwah Industrial Estate, Saki Vihar Road, Saki Naka, Andheri (East), Mumbai 400072
Tel: 22-8362824 Fax: 22-8212234

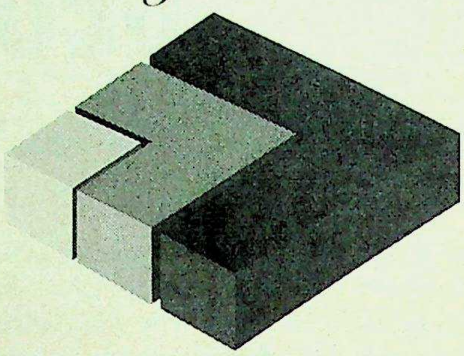
Reader Query Service #E0543

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NETWORK INTERFACE ADAPTERS

from



SMC®*

for superior system performance at affordable price from Priya

HIGH QUALITY **SIMULTASKING**

WIDE COMPATABILITY **LIFE TIME WARRANTY**

ADAPTERS **HUBS** **STACKS** **SWITCHES**

WITH SUPERIOR FEATURES

• Plug and Play • User Programmable Filtering • Error Protection • Easy Installation • Port Trunking • Virtual Lan Support

WITH ASSURANCE OF

• Genuine Quality • Technical Support • Prompt Service • Lifetime Product Warranty

All from PRIYA, the authorised distributor for SMC®

NOW STOCKS AVAILABLE FROM OUR LOCAL OUTLETS ALSO.

DEALER ENQUIRIES SOLICITED

Priya GROUP

EASY MIGRATION TOWARDS FUTURE TECHNOLOGY

Priya International Limited

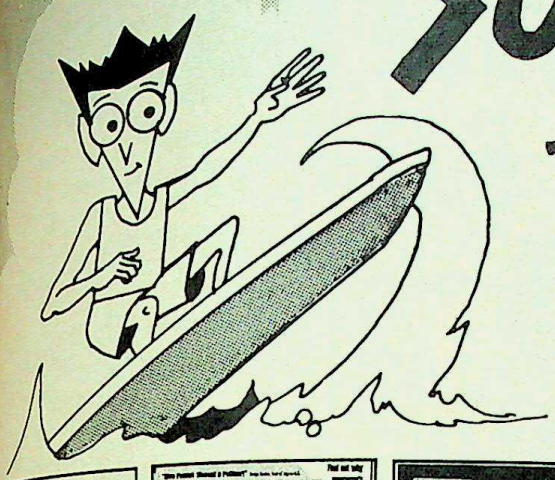
P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 285 4037

Branch Offices: **Bangalore:** Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422378, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

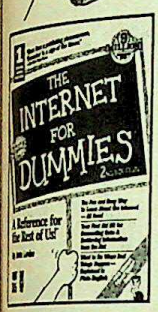
**The Logos and Trade Marks shown above are of their respective owners.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



SURF the NET the FUN & EASY WAY!



THE INTERNET FOR DUMMIES

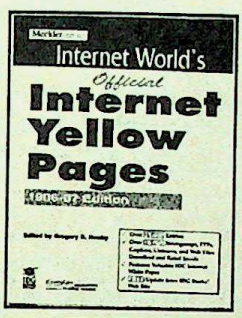
Goes into the details of the Internet, existing connectivity options, getting connected, and information you can get. Offers the basics of e-mail, mailing lists, and network news, ways of browsing what's available on the Net.

Pages: 384 • Price Rs. 150

FREE STUFF FROM THE INTERNET

Good news for bargain hunters and free-loaders. Jam-packed with incredible free offers from Microsoft, NASA, Uncle Sam, Apple Computer, and hundreds more. Amazing free stuff for your home, business, computer, lifestyle, hobbies, and more.

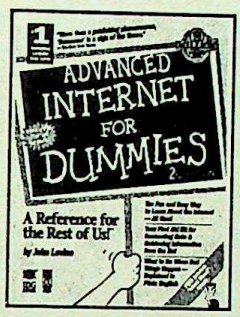
Pages: 459 • Price Rs. 195



OFFICIAL INTERNET YELLOW PAGES

A one-stop Net resource with integrated print directory, with listings and description in 1200 subject areas. Features include FTP sites for retrieving software from a remote site for downloading to your computer.

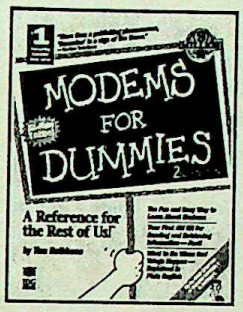
Pages: 700 • Price Rs. 450



ADVANCED INTERNET FOR DUMMIES

Companion to The Internet For Dummies. Covers tips and tricks that the earlier edition had left out. Has stuff on getting the most out of the Internet with the least effort and more on tools such as Gopher, Archie, WAIS, and World Wide Web.

Pages: 390 • Price Rs. 150



MODEMS FOR DUMMIES

Shows DOS, Windows, and Mac users how to choose, install, and use modems and modem software with lots of tips for Internet access. Maximize modem benefits like e-mail, downloading and sending files, and faxing.

Pages: 463 • Price Rs. 150

FREE $TUFF FROM THE WORLD WIDE WEB

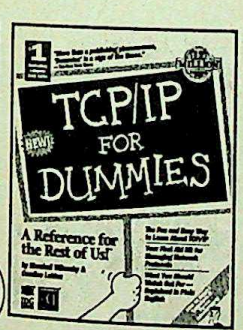
Jam-packed with incredible free goodies from Microsoft, NASA, Uncle Sam, Apple Computer, and hundreds more for your home, business, computer, lifestyle, hobbies, health, and more. Includes an introduction to the World Wide Web.

Pages: 475 • Price Rs. 195

FOUNDATIONS OF WWW PROGRAMMING WITH HTML & CGI

Create high-quality, interactive Web services that support complex user interactions. Includes CGI development, tips on location-independent CGI responses from the Internet, including WAIS & interfacing tools, forms & activity design tools, & Web-ifying tools.

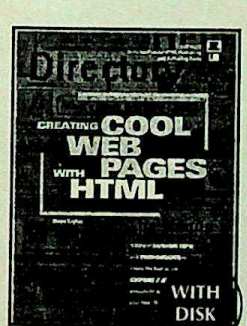
Pages: 648 • Price Rs. 450



TCP/IP FOR DUMMIES

First-aid kit for managing network protocols. Explains various concepts and intricacies of TCP/IP in an easy manner. Covers protocols for networks connected to the Internet and dis-connected networks. Delves into bridges, routers, gateways and routing policy.

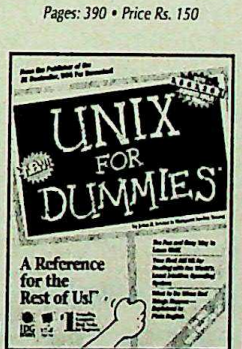
Pages: 400 • Price Rs. 175



CREATING COOL WEB PAGES WITH HTML

Provides step-by-step introduction to HTML with real-world HTML examples, important design principles, and marketing tips on creating cool Web pages that get noticed.

Pages: 288 • Price Rs. 195



UNIX FOR DUMMIES

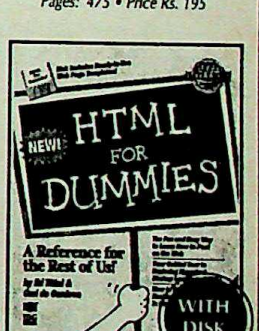
Covers all major versions, including Linux, Berkley UNIX, System V, System V Release 4, SunOS, and Solaris. Finally, a friendly guide for this hostile system. Become a UNIX wizard in no time.

Pages: 368 • Price Rs. 135

WORLD WIDE WEB SECRETS

The best Web access and server software plus utilities to untangle the Web on CD like NetCruiser, America Online, Prodigy & Windows httpd. Covers CGI and Windows 95. Get expert World Wide Web Tips and Techniques. Find the most recent HTML authoring tools.

Pages: 710 • Price Rs. 295 (Book only) Rs. 450 (with CD-ROM



HTML FOR DUMMIES

Teaches the fundamentals and how to master HTML commands and syntax to build Web pages and develop a Net presence. Use HTML effectively with text, images, video and audio and give your pages impact and flair.

Pages: 444 • Price Rs. 225

Published in collaboration with IDG Books Worldwide, USA

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Phones: 3268292-93, 3279900 • Fax: 91-3260518
Branches: • BANGALORE-560 027 Ph: 2234025 Fax: 080-2240209 • BOMBAY-400 002 Ph: 2010941
Fax: 022-2053387 • PATNA-800 004 Ph: 653644

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Executive Hindi for Word For Windows 6.0

A useful but expensive Indian script add-on

THE SPECS

PRODUCT: Executive Hindi for Windows 6.0
REQUIRES: 386 or better, 4 MB RAM, disk space, Windows 3.1 or later with for Windows 6.0.

FEATURES: Phonetic transliteration English to Devanagari. Seamless switching between English and script and good integration with Three True Type fonts included (ATM optional).

PRICE: Rs 10,000

SUMMARY: An Indian script add-on Word for Windows 6.0. Easy to despite some strange key associations. Integrates well with the host application but lacks a spelling checker and is priced as an add-on.

DVP: Gate Seven Computers, UK
VENDOR: Osprey Software Technologies Pvt Ltd, 211 Ashirwad Complex, D-1 Park, New Delhi 110016. Tel: 11-6865170 E-mail: info.osprey@

Reader Query Service #E020

This script add-on for Word for Windows 6.0 is available in India in Devanagari, Bengali, Gujarati, Marathi and Tamil versions. It complements the features of the host application, while adding its own functionality. Since it doesn't take over Windows, unlike some other Indian script software, you can prepare true bilingual documents.

Executive Hindi contains HINDI6.DOT for Devanagari and when using simple conjuncts, and DEVAN6.DOT for Sanskrit or when complex conjuncts are required. When active, Executive Hindi adds a toolbar that lets you select the working language or change scripts on-the-fly. The well-structured, detailed manual gives tips for become productive faster.

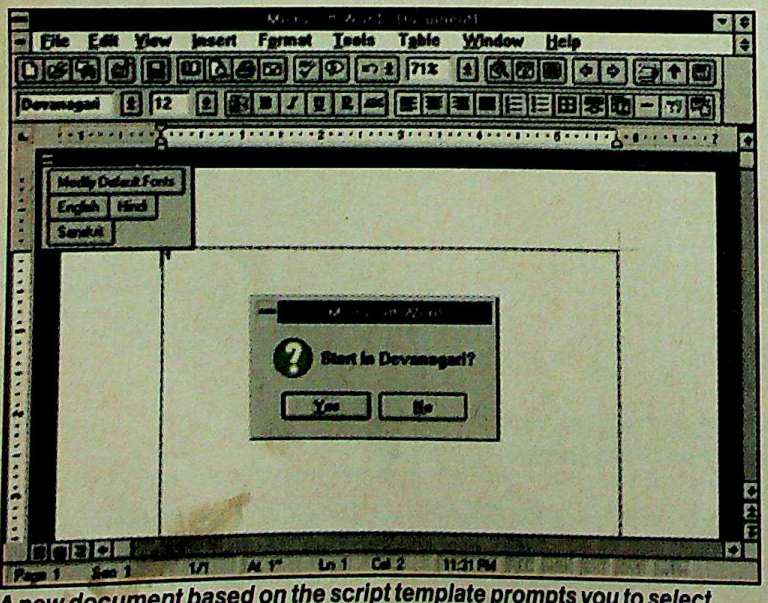
The package presumes unfamiliarity with the script. The nearest sounding English character is assigned to its Indian script equivalent using a WordBasic macro. Each key sequence is mapped to a macro and the macros distinguish whether the character entered is a full vowel or a consonant. But the direct association that the program uses to link Hindi to the English keyboard makes for some strange associations, and Shift+Q is mapped as *Ri* (as in Rishi). The macros used, though visible in the Tools Macro dialog box, are copy protected.

Executive Hindi itself is copy-protected and uses a token transfer to write hidden files in your hard disk. This means that short of buying an additional copy, you need to un-install the add-on before moving it elsewhere.

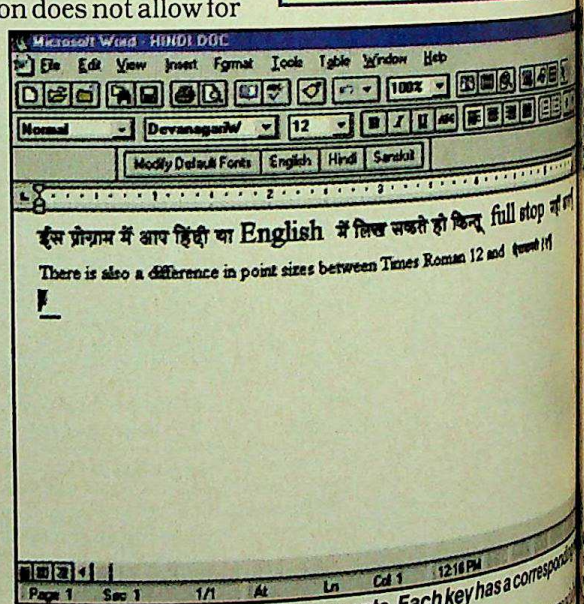
You must read and understand the manual before using the application, otherwise you will get frustrated while entering consonants or the correct *matras*. A bug in the application does not allow for a *purnaviram* (sentence ending).

Since the package lacks key-top labels, you need to keep either the Manual or the key-mapping guide handy. A Spell Checker too would have been useful since "occasional" users are probably weak with the language. The manual's point size too should be increased to make for easier reading.

Executive Hindi has the makings of a good product, but the high price and lack of features lets it down. It's very expensive for an add-on, as for a complete script-based word processor, nevertheless.



A new document based on the script template prompts you to select the language



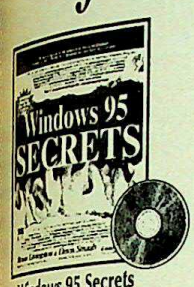
You can prepare bilingual documents. Each key has a corresponding

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HOTSTUFF

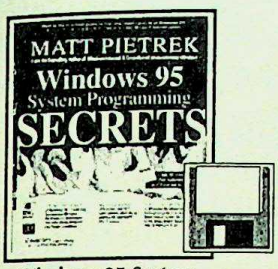
for Programmers and Power Users



Windows 95 Secrets
By Brian Livingston

Hundreds of undocumented tips and techniques to get the most out of Windows 95—customize, configure memory and hardware, edit registry, exchanging information through on-line services. Super CD contains more than 200 programs for Win 95.

Pages: 800 • Price: 295 (book only) 450 (with CD)



Windows 95 System Programming Secrets
By Matt Pietrek

Hardcore information on the power of 32-bit programming. Plunge into specifics about its three-core data structure: modules, processes and threads. Details about key 16 and 32-bit data structures. Expert tips for exploring Windows 95 on your own.

Pages: 800 • Price: 395 (with disk)

Zen of Windows 95 Programming
By Lou Grinzo

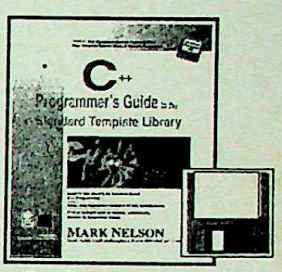
Master 32-bit Windows coding and applications. Undocumented techniques for Windows Registry dealing with various versions of WIN 32 and more. Disk contains the popular Stickies program for Win. CD carries all probjects and code in the book

Pages: 800 Price: 345 (with disk) 450 (with CD)

Visual C++ Multimedia Adventure Set
By Peter Aitken

Create awesome Windows applications with sound, video, music, graphics, animation, and hyper-text incorporating the power of Visual C++ and Windows 95. CD-ROM is jam-packed with breakthrough multimedia tools.

Pages: 560 • Price: 295 (book only) 450 (with CD)



C++ Programmer's Guide To STL
By Mark Nelson

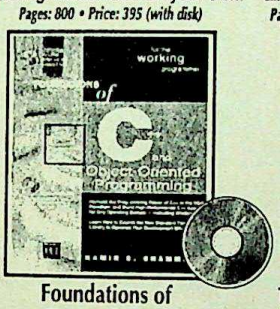
Using STL, programmers can now develop professional C++ applications with remarkable ease. A thorough introduction to STL, making C++ more potent than ever. Disk contains complete Hewlett Packard STL, source code and sample programs.

Pages: 700 • Price: 325 (with disk)

Windows 3.1/3.11 Power Techniques
By Brian Livingston

Expert tips, short cuts and power techniques to help you get the most out of Windows 3.1/3.11. Helps you customize Windows and improve reliability and performance. Disks contains a selection of the best Windows freeware and shareware.

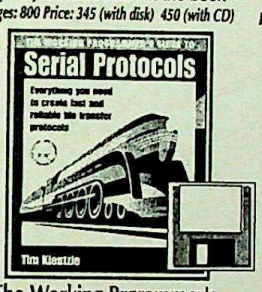
Pages: 700 • Price: 350 (with 5 disks)



Foundations of C++ and OOP
By Namir Shammas

Real world programming examples guide you through every aspect of C++ applications and the OOP model. Offers expert guidance on STL — a standard on all upcoming C/C++ compilers. CD-ROM contains Hewlett Packard STL, source code, plus hyper-text version of the book.

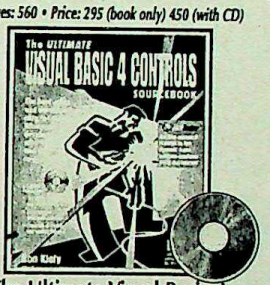
Pages: 600 • Price: 345 (with disk) 450 (with CD)



The Working Prgrammer's Guide to Serial Protocols
By Tim Kientzie

Insights and ideas for developers to create custom protocols. Learn encoding, error correction, packet design, streaming, and windowing techniques. In-depth information on X, Y and Z modems, and Kermit protocols. Disk covers implementation of all these and much more.

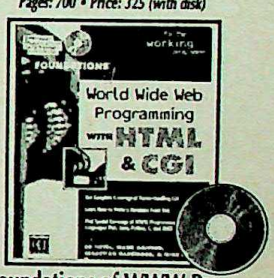
Pages: 450 • Price: 295 (with disk)



The Ultimate Visual Basic 4 Control Source Book
By Don Kielt

Features the finest tools and resoruces for developing applications with custom controls. Incorporates leading features like: Internal support, graphics charting, graphics, text editors, word processors, multimedia, databases and more. Try out sample applications using the CD-ROM.

Pages: 910 • Price: 325 (Book only) 450 (with CD)



Foundations of WWW Programming with HTML & CGI
By Ed Tittel, Mark Gaither etc.

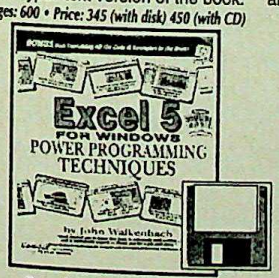
Ccreate high quality, interactive Web services. Build forms, supply formatted data-base requests, and tackle any kind of CGI programming projects. CD is packed with public domain, shareware tools, libraries and ready-to-run CGI programs.

Pages: 648 • Price: 450 (with CD)

Zen of Graphics Programming
By Michael Abrash

Master the art of leading edge graphics applications and animation software programming. Discover the secrets of VGA programming. Create amazing applications from games to virtual reality. Accompanying disk contains source code for the entire range of graphics programming.

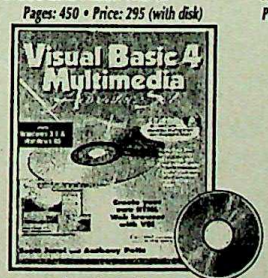
Pages: 600 • Price: 325 (with disk)



Excel 5 for Windows Programming Techniques
By John Walkenbach

Conquer Visual Basic for Applications (VBA) in Excel to advance into writing macros for a multitude of Microsoft products. Create complete programs utilizing diverse features across various applications. Disk covers all the examples and code in the book.

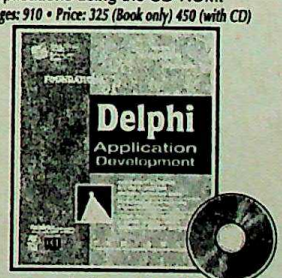
Pages: 560 • Price: 325 (with disk)



Visual Basic 4 Multimedia Adventure Set
By Scott Jarol & Anthony Putts

Build blazing multimedia applications using the HTML-based VB multimedia engine. Use the Windows 32-bit API, the Windows 95 multimedia features and the dynamic Internet and WWW to create fabulous applications. CD-ROM is bursting with powerful multimedia development tools.

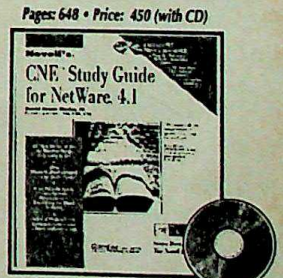
Pages: 800 • Price: 295 (book only) 450 (with CD)



Foundations of Delphi Application Development
By Tom Swan

Get a thorough understanding of Delphi's Visual Component Library. Master component properties, methods and events. Write Windows 3.1 and Win 95 applications, as powerful as those written in C, C++ & Visual Basic. Learn by using, creating and studying applications in the CD-ROM.

Pages: 800 • Price: 345 (with disk) 450 (with CD)



Novell's CNE Study Guide for NetWare 4.1
By David James Clarke, IV

Features the NDS design principles, NetWare 4.1 configuration, migration, performance, management, security, printing, system maintenance, utilities, and trouble shooting. CD-ROM holds next-generation interactive learning tools & other leading edge software from Novell.

Pages: 1400 • Price: 595 (book only) 795 (with CD)

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Phones: 3268292-93, 3279900 • Fax: 91-3260518
Branches: **• BANGALORE** Ph: 2234025 Fax: 080-2240209 **• BOMBAY** Ph: 2010941 Fax: 022-2053387 **• PATNA** Ph: 653644

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

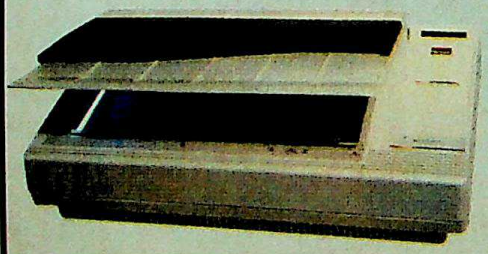
An invitation to profit...

All those who are dealing in office automation equipment or wish to start a dealership in the same, here is an invitation that you shouldn't decline. Invitation from RIFOX Industries offering you dealership of ARTEC Scanners. Because scanners are a product of the future...and ARTEC Scanners are one of the the best in the category.

Industry estimates say that in the coming years scanners will be as common-place in an office as a fax today. DTP units, advertising agencies, Engg. companies, corporate houses, lawyers, architects, doctors and all other professionals are potential users of scanners

ARTEC Scanners incorporate the best technology to offer you the latest and the most sophisticated control functions. And RIFOX assures you excellent customer support.

No wonder ARTEC Scanners, both flat-bed and hand-held are a sure-shot success in the international market. So what are you waiting for? Accept our invitation to profit ***NOW.***



ViewStation A6000C/PLUS

- ✦ 16.8 million colours
- ✦ 2400/4800 dpi
- ✦ Cold cathode lamp - 30 times longer life
- ✦ True natural colours
- ✦ Intelligent LCD panel
- ✦ High Speed
- ✦ Large scanning area : 8.5" x 14"

ViewScan/ Colour 16M

- ✦ 16.8 million colours
- ✦ 1600 dpi

ViewScan/ grey 64 - 256

- ✦ 256 gray scales
- ✦ 800 dpi

✦ Patented Auto Missing Line Detection & Compensation

ARTEC® RIFOX

Collaborator in India

RIFOX EQUIPMENTS PVT. LTD.

(ELECTRONICS DIVISION)

1117, Surekh Building, University Road, Pune - 411 016. INDIA.

Tel.: 0212 - 357052, 357145; Fax: 0212 - 348241.

RAY/RIFOX/96

SOFTWARE PROFESSIONALS

MCC is a leading Computer Consu... organisation operating from Calcutta since 19... have been retained by leading US organisa... select Computer Professionals with 2-6 ... experience and sound working knowledge o... of the following softwares :

Databases	:	Oracle 7.0/Sybase 10/ DB2/...
GUI	:	Powerbuilder/Visual Basic... Visual C++
Applications	:	Lotus Notes/Oracle Fina... SAP Rel 3
Networking	:	TCP/IP/Internet/Novell Netw...
Language	:	RPG 400
OS	:	Unix/Windows NT/AS 400

Very attractive emoluments with opportunity ... abroad for overseas posting will be offered ... selected candidates. Candidates having ... B. Tech or M. Tech qualifications would be ... preference.

If you are not selected for the post, your bi... would be included in our computerised ... resources data bank. Every time there ... requirement from a client including some of the ... sought after multinationals, you would be consi... automatically for the post. Please rush your res... within 7 days giving following details :

- ★ Knowledge & Experience on various so... mentioned above.
- ★ Qualifications, Age, Contact telephone n...
- ★ Passport No.
- ★ Details of projects handled/your respons... HW&SW platforms used.

Management and Computer Consul...

Flat-2E, 12 Loudon Street, Calcutta-700 017

Tel. : 247-5640/240-3383, e-mail : calaaa52@giascl01.s...

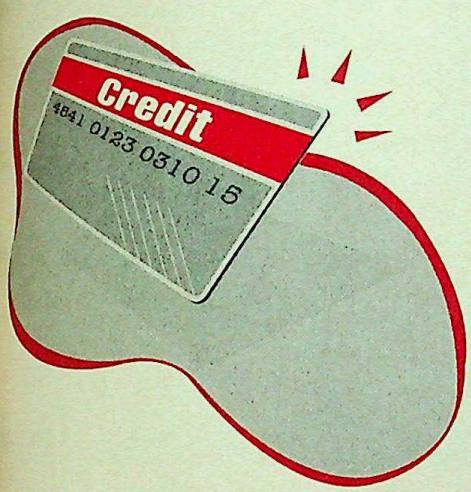
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

edit Card Numbers nded Up On The Net

n a clear indication of the Internet bugs that need to be ironed out for foolproof financial transactions to take place, 5,000 First Bank System customers' credit card nt numbers accidentally ended up in the computer files nother company that provides Internet services.

e numbers appeared to have been randomly generated by ware program. The problem wasn't discovered until the



et service provider notified the bank it had discovered the ers during a random audit of its computer files.

appears someone created the number using a fairly on software program for generating random card num- By choice or accident, the creator of the file used the t number code for First Bank to generate the card ers.

st Bank plans to inform the affected card holders to existing accounts and open fresh ones with new num- o reduce the chance of fraud. Law enforcement authori- o have investigated the storage of the account numbers. curity experts said the danger lies in a computer's ability erate possible card numbers and try them on different t-based services. Much like hackers are able to crack s codes, they will be able to defraud Internet merchants aked credit card numbers.

C, MCI, Microsoft Join ces For Intranets

e Internet may be the information superhighway of choice of many computer users and businesses, but one of the hottest new Internet-related market nities has become the intranet, an internal corporate ent. Such sites offer large, diversified, cor-porations a ctive efficient way to communicate internally.

al Equipment, MCI, and Microsoft recently agreed to develop and market corporate intranet products and services. Many companies have begun using internal sites for bulletin boards, newsletters and e-mail.

Such sites are similar to a regular home page, except they are separated by a firewall to protect internal communications. MCI will offer network communications, DEC will develop client-server products and services to link desktop computers and Microsoft will provide the software to make it happen. The resulting intranet "suite" will include e-mail, messaging services, electronic bulletin boards, and sophisticated sales-tracking applications. Microsoft's Internet Information Server and customized versions of its Internet Explorer will also be included.

The service will be available in late June or early July and targets the internal web site market that is expected to grow from $400 million to $8 billion by 1998.

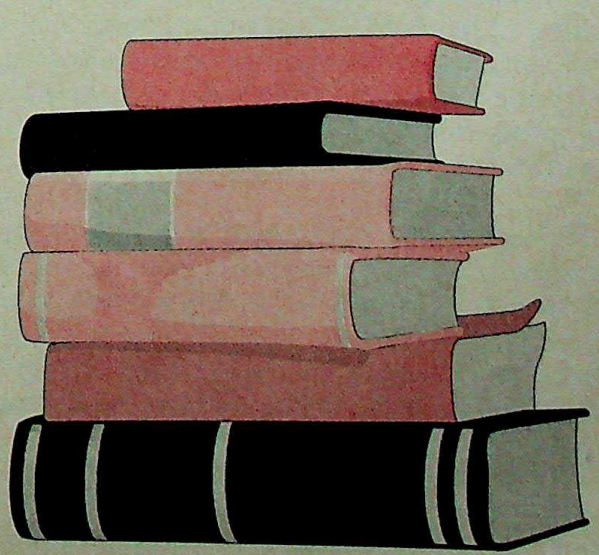
SVNS

Internet Directory In Bookshelf '97

The latest edition of MS Bookshelf ($54.95) includes nine reference works, including an Internet directory and a world atlas. It also has a new look, improved search features and lots of new images.

The Internet Directory lists Internet sites, mailing lists and newsgroups and overviews of Web, gopher and FTP sites. Its Internet glossary helps novices, who can also access the Net sites listed. Online updates will be available freely to Bookshelf users. Users can utilize Bookshelf's Year In Review feature to keep in touch with 1995 happenings.

The Concise Encarta World Atlas helps users locate continents, countries, states, provinces and cities. The maps come with pop-ups containing pronunciation of locations, audio clips of national anthems and information on disputed borders (if any). Maps can be copied and pasted into files created in other apps.



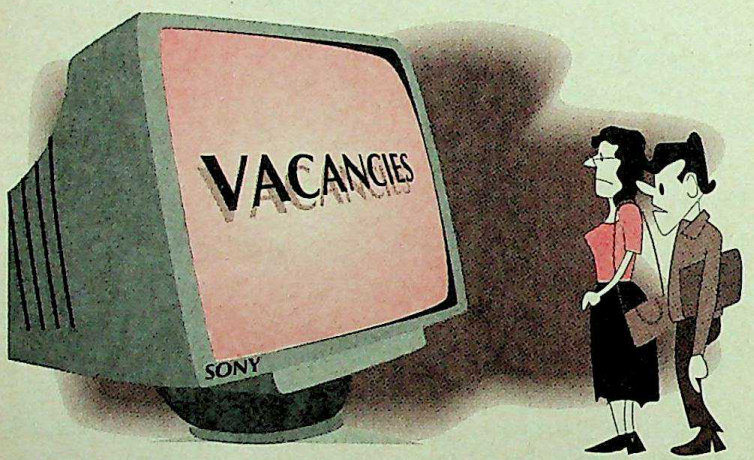
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

With the addition of the Internet directory and the Atlas, Bookshelf is now available with the Third Edition of the American Heritage Dictionary, the Concise Columbia Encyclopedia, Roget's Thesaurus, the World Almanac and Book of Facts, the Columbia Dictionary of Quotations, the People's Chronology and the National Five-Digit ZIP Code and Post Office Directory.

Sony To Accept Job Applications Online

Sony Corporation will accept job applications online from this summer onwards. Jobseekers, mostly university students, will submit their applications for the first stage of the interview procedure online, thus ensuring that all Sony employees have some infotech background.



FrontPage Beta Available From Microsoft

Microsoft's FrontPage 1.1 Beta, a Web site creation tool for non-programmers, is available on the Web (http://www.microsoft.com/msoffice/frontpage/). Microsoft has also lowered FrontPage's suggested retail price from $695 to $149 (up to March 1997) and will provide free server extensions at its Web site. FrontPage's final version will be retailed by end-May. Purchasers of MS Office will get a $40 rebate on purchases of FrontPage, and users of FrontPage 1.0 can upgrade free.

FrontPage's new release includes features such as the Frame Wizard, that allows users to create a custom frame grid and access frame templates; auto-recalculate links allows automatic updation of all occurrences of hyperlinks when files are moved or renamed; a WYSIWYG editor; a visual Web site manager; drop-in server tools, such as full-text searches; threaded discussion groups and surveys.

FrontPage documents can be opened and saved within Word 95 and Excel 95. Users can update and save Office documents in FrontPage Web sites and the FrontPage Open and Save add-in allows users to open spreadsheets and documents from a FrontPage Web site.

True World Access's Clip Art For Web Pages

True World Access's U-Build It (http://www.ubuild...) is a Web site where original designs for banners and Web pages, created by its animators and designers, can be bought. These graphics are based on a variety of themes to give their pages a distinctive look. New themes are added every week. U-Build It also provides help in using graphics on the Web, shareware utilities and links to sites for novice graphics designers.

U-Build It's customers can scan catalogs, buy the items they want through the CyberCash service or secure credit cards, and immediately download orders. Prices range from $9.95 for a set of 25 buttons used on ten Web pages to $25 for a Web page.

Web Gallery Puts Artisans Online

The Gallery of International Artisans (http://www.netmart.com/gallery), set up by The Craft Bu... of Toronto, helps artisans exhibit and sell their work via the Web. A silversmith, a potter, glassworkers and a sculptor working with optical fibers, are currently exhibiting their work.

Since it was set up on March 1, traffic has been close... hits a day, although most Web indexing sites don't list the site in their databases.

Plans are afoot to increase the number of artists exhibiting to 25. Exhibitors are chosen very carefully, with their portfolios and the awards they have received being checked by the Boutique. So far, exhibitors have been American, but Europe... pean and Japanese too have made inquiries.

Artisans pay a negotiable monthly fee and commission to exhibit their work. They can also link their own Web pages... the Gallery for $25, top-of-page banner ads cost $100 and... and-crafts events can be included for $20 in a calendar.

Visitors can choose from a menu of exhibitors, view their work and order online. The site can be searched by artist, 'media', and in future, by 'country of origin'. Visitors can also view one-at-a-time items or limited editions.

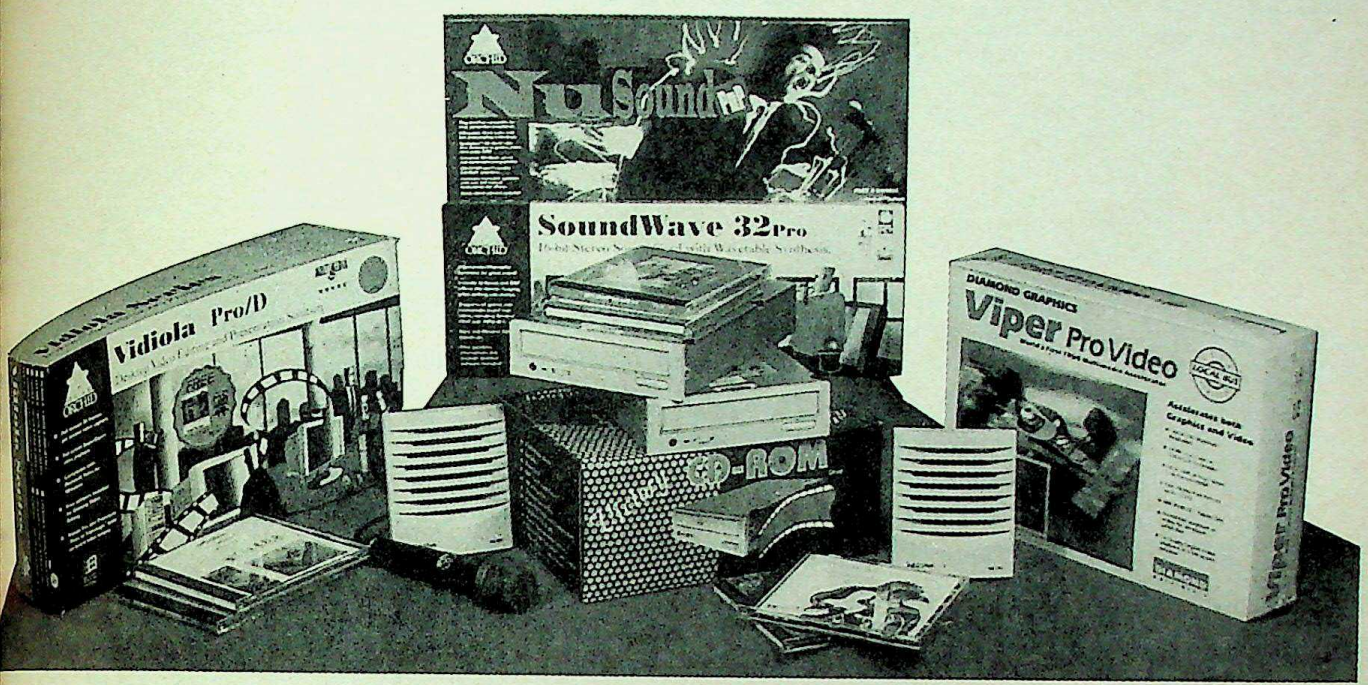
AT&T's Toll-Free Directory On Internet

AT&T plans to introduce its Toll-Free Directory, with over 500,000 businesses listed, on the Web at http://www.tollfree.att.net/. Services range from ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Attention decision makers !



Still want to be steps ahead. Welcome to the Victory Multimedia technology zone. We are offering incredibly Fast CD-ROM Drives, 3D-STEREO quality SOUND CARDS, high tech VIDEO CARDS, reliable CD-ROM RECORDERS, high - speed Six Disc CD-ROM CHANGERS, high quality 3-in-1 SCANNER / FAX / COPIER, ... for less than you ever thought possible. So with your dreams and our reliable, high - tech value priced Multimedia products success'll be yours.

AST COMPUTER
Authorised Dealer

MTL

For Further Details Contact
MEDIA TECHNOLOGIES INDIA LIMITED
H.O.: 204, Bhandari House, 91 Nehru Place, New Delhi -110 019. Tel 646 8695, 6420117
Telefax : 642 7241, E-mail - D E L A AC4 7 @ G I A S D L 0 1.VS NL.NET.IN
B.O.: 24-A, Dadyseth House, 44, Cawasji Patel Street, Fort, Bombay - 400 001. Tel. 2853830

DEALERS:
Allahabad : LANSYS Computers (P) Ltd. Tel. 644330, 644473,642152, 640489. **Bangalore** : Premium Logic Systems, Tel. 3339602. **Calcutta** : Unique Sales Agency, Tel. 275356. **Chandigarh** : Samson Software Technologies, Tel. 690505. **Gorakhpur** : Sam Computers Pvt. Ltd. Tel. 33558. **Jallandhar** : The Computer Concept, Tel. 221631, 246989. **Kanpur** : Multi Business Machines Tel. 290986, 293738, 355731. **Lucknow** : Syber Systems & Solutions Pvt. Ltd., 386325, 76107. **Noida** : COMPUCOMM Services Tel. 522357, 558402. **Patna** : Graphic Trades Tel. 651740.Udaipur : Vardhman Computers Tel. 414543. **Varanasi** : Jwala Distributors Tel. 356338, 356319.

business promotions - MTIL / 2 / 96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BUY * SELL * LEASE * HIRE

MICROMART

CLASSIFIED

ALL NEW SHAREWARE SOFTWARES

✻ Accounts & Business Software (Rs. 390/-) ✻ Animation Pack (Rs. 390/-)
✻ Hindi Fonts Collection (Rs. 590/-) ✻ Education / Tutors (Rs. 390/-)
✻ Floppy-Hard Disk Utilities (590/-) ✻ Pack for Adults (Rs. 390/-)
✻ Games - Apogee, Windows, DOS (Rs. 390/- each) ✻ Windows Utilities (Rs. 390/-)
✻ Language Tutors [Russian, French, Japanese etc.] (Rs. 590/- each)
✻ Crossword Puzzles (Rs. 390/-) ✻ Astrology & Fortune Telling (Rs. 590/-)
✻ Fun & Humour (Rs. 390/-) & Many many more...

DEALERSHIP ENQUIRIES SOLICITED

• Send 25% amount for VPP Delivery or 100% amount for courier delivery
• Prices inclusive of Media & Courier delivery • Please specify disk size (3½" or 5¼")

Software Studio®

29-A-4, Sec.-4, Rohini,
Delhi -110085.
Ph. : 3760605

Dealer : **B.N.R.M.**
183, Fatehpuri, Delhi-6
Ph. 2529912

HEAD PROBLEMS ? NO PROBLEMS !

CONTACT : **SUPERTRON** - The only reliable source, for guaranteed repairs of all Print Heads, Printers, Floppy Disk Drives, Mother Boards, Monitors, SMPS, Motors, Key Boards, UPS, Laser Printers etc.

Supertron Computer Systems (P) Ltd.
366, Basement, Sant Nagar,
East of Kailsah, New Delhi-110 065
Ph : **6446234**

Branch Office :

B-8, Zenith Business Centre,
Motilal Avenue, **Jalpur** - 302001
Tel. : **361846 / 362590**

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ges with "800" or "888" toll-free numbers to full-screen ads
mini-Web sites with e-mail and hyperlinks to other sites.
site's pricing strategy follows that of the Yellow Pages; no
ges for basic listings, but cross-listings under various
gories carry additional charges.

ntranet Support Added To ewsEdge

Desktop Data's (http://www.desktopdata.com) NewsEdge server now comes with an extra module, NewsEdge/Web, that supports news distribution through Web wsers. Netscape Navigator and Microsoft's Explorer can w display news from over 500 news wires and publications elect items that fit users' news profile. NewsEdge/Web will

rto beta testing this month.
ow, intranet clients share the same services provided to s and Exchange clients. NewsEdge/Web's exact pricing yet to be determined, but might follow the existing ategy, where the 90-cents-a-day paid for profiling and rching goes down as the number of users goes up.

merican Express aunches Online Booking

merican Express Travel's new **Travel Express** Web site (http://www.americanexpress.com/travel/) can be used by card holders to book flights. It uses Internet et Network's search engine technology to help find flight ation based on their preferences.
o buy tickets online, users must utilize a browser with n security, such as Netscape Navigator or Microsoft er. If people aren't sure where they would like to

vacation, they can look through a special section of vacation packages, that feature descriptions and full-color photos. Customers can't book vacation packages online, but can visit the nearest American Express Travel office or call a toll-free number, listed on the site.

Netscape Navigator Will Include Borland's AppAccelerator

Future versions of Netscape Navigator, due in the fourth quarter of 1996, will include Borland's AppAccelerator compiler for Java apps. AppAccelerator will enable Windows 95 and Windows NT users to execute Java apps faster than now.

AppAccelerator reads the intermediate byte code and translates it into machine-executable code on the client system. The Borland C++ Development suite 5.0, already on sale, includes AppAccelerator, a graphical program debugger and an integrated version of the Java Development Kit.

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVERTISEMENT RATES (w.e.f. 1st September, 1995)

	DISPLAY		APPOINTMENTS
	Colour	Black & White	
Full Page	Rs. 38,000	Rs. 25,000	
Half Page	Rs. 28,000	Rs. 18,000	Rs. 18,000
Double spread	Rs. 85,000	Rs. 55,000	Rs. 10,000
Back Cover	Rs. 78,000	-	Rs. 40,000
Inside Front Cover	Rs. 65,000	-	-
Inside Back Cover	Rs. 65,000	-	-

CLASSIFIEDS Micromart

- Box Nos Available At Rs. 100/- Extra
- Micromart Ads are relased only against Advance Payment
- Box Size : 5.00 x 6.00 cm (W x H)
- Rate Per Box : Rs. 2000/-

CONTRACT Rates

- 6 Insertions -5% Discount
- 12 Insertions - 10% Discount

Extra

- Special Positions - 20%
- Colour Processing - Rs. 25
- Bleed - 10%
- Spot colour - 20%

SIZE OF ADVERTISEMENTS (Width x Height)

	DISPLAY		APPOINTMENTS
	BLEED	NON BLEED	
Full Page	20.6 x 27.6 cms	17.5 x 23.5 cms	17.5 x 21.5 cms
Double Spread	40.2 x 27.6 cms	37.0 x 23.5 cms	37.0 x 23.5 cms
Half Page (Hrz.)	-	17.5 x 115 cms	17.5 x 10.5 cms
Half Page (Vert.)	-	8.5 x 23.5 cms	8.5 x 21.5 cms

PLEASE NOTE

1. All advertisement material should reach us by the 20th of the previous failing which the release order will be treated as cancelled.
2. Minimum material required is an artwork for B&W advertisement positives alongwith progressive proofs for color advertisements.

Registered Office: 810, Meghdoot, 94, Nehru Place, New Delhi 110019. Tel: 6416315/6476664

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tasty Bits From The Technology Front

Lawyers Guns And Linux

The week before last Greg Roelofs <roelofs@uchicago.edu> was at the Software Development conference in San Francisco wearing his "Linux Inside" tee shirt. For those of you who've been on another planet, Linux("linn-ucks") <http://www.linux.com/> is a freely distributable version of the Unix operating system for 386, 80486, and Pentium machines that contains no proprietary code [it was distributed with *PC Quest* March 1996—ed]. Linux was originally written by Linus Torvalds in Helsinki, Finland and is now enhanced by a worldwide community of developers. It contains a lot of code written by Richard Stallman and the Free Software Foundation.

Let's let Greg pick up his story before he's sprung in San Francisco:

"About a year ago I heard about a cute 'Linux Inside" logo patterned after the Intel version. It was nowhere to be found on the net by that point. SSC—publisher of the Linux Journal—had apparently distributed stickers with the logo with early issues of the Journal but had been advised to stop due to the commercial nature of the distribution), so I made my own. I intentionally did *not* upload it to ftp sites in order to avoid CD-ROM distribution, but I did add it to my Linux Logos Web page <http://quest.jpl.nasa.gov/Info-ZIP/people/greg/greg_lnxpics.html> with a disclaimer that it was intended as satire and should not be used commercially."

So, Greg gets some T-shirts made with his cute "Linux Inside" logo patterned after the Intel version; kind of a light gold on robin's-egg blue, can't you just see it? He wears the tee shirt to SD '96 on Tuesday March 25. In retrospect, he acknowledges that wandering into the Intel booth wearing that particular T-shirt might not have been the brightest idea going. He did enjoy the booth staffer's double-take, though.

On April Fool's Day lawyers from Intel phoned Greg and requested that he remove all traces of the logo from his Web pages.

He has now done so. But try an Alta Vista search for "image:linuxinside" any you'll see 98 other sites sporting the logo, or one derived from it, or one developed independently. Greg didn't encourage its spread. He's not courting trouble. But Intel will find that trying to suppress this piece of light satire has about the same effect as clapping your hands on a drop of mercury.

All Greek To Me

Pushing HTML beyond the established standards, as both Netscape and Microsoft do, can be a two-edged sword. Feeling a bit snippy with Microsoft today, are we, sir? Like to take it out on the users, would we, sir? Don Reed <don@alcuin.com> reveals an underhanded way to do that. Here's his response to a query on the Apple Internet Authoring mailing list:

"I have to recreate a Greek letter to use for a scientific article. Are the HTML codes for the Greek symbols still in discussion by the WWW steering committee?"

At present, the best solution is tell people to use Microsoft Explorer to view it. Microsoft has added a FACE attribute to Netscape's FONT entity. The line would look something like "<FONT FACE=SYMBOL> text text."

Some Microsoft-hostile people put this line in their pages routinely. When an Explorer user sees their pages, they're all Greek!

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Sources:

Apple Internet Users mailing list-mail listproc@abs.apple.com without subject and with message: subscribe apple-internet-users Your Name .

Apple Internet Authoring mailing list -mail listproc@abs.apple.com without subject and with message: subscribe apple-internet-authoring Your Name .

Anatomy Of A Net Attack

Fred Cohen<fc@all.net>is president of Management Analytics in Hudson, Ohio, a consulting firm specializing in Net security. The firm operates the Info-Sec Heaven site at <http://all.net/> and publishes a monthly series of essays called "Internet Holes", found at http://all.net/journal/netsec/top.html, on information-security topics. The March essay, found at http://all.net/journal/netsec/9603.html, espoused a policy of "zero tolerance" for Net attacks:

"Take a zero-tolerance attitude toward investigating attempts to scan or enter your system. The idea that one attempt to guess a password or gain unauthorized entry is too small to bother with opens a giant hole. With modern attack tools, instead of scanning for a lot of services on one computer, I can scan for a few services at many computers. By staying below your incident detection threshold, an attacker can go after systems at will and without fear of recourse. With zero-tolerance, each questionable activity results in another message to the systems administrator at the site where the attack originates. Pretty soon, the activities will be seen as significant."

Apparently some twisted Netizen took this policy as a personal affront on his right to telnet wherever he damn well pleased. Over a period of several days, a shadowy band of crackers used a newly discovered vulnerability in URLs to enlist innocent collaborators in a denial-of-service attack. (The defences of all.net proved more than ample.) Cohen wrote in comp.risks:

"...there is a more basic flaw in the URLs used in the Internet that appears to make firewalls very weak prey for attackers and enables Web sites to launch highly distributed and hard-to-trace attacks. The basic flaw was published some weeks ago... and extensions have now been used to launch probes and attacks by the thousands from sites all over the net."

Cohen has posted a detailed and disturbing account, at http://all.net/journal/netsec/9604.html, of the attack on all.net. Read it if you've ever wondered what it's like to be a system administrator under siege.

How Fast Are Your Web Pages?

Webmasters: do you monitor your servers to see how fast they are serving pages to users? Do you then think you know something about the quality of the experience your users have when they visit your site?

Allow Bernard Hughes politely to differ. Hughes offers a Web service called OnTime Delivery that tracks and reports on the time it's taking your users to load your pages. From May to September 1995 he ran a test using 200 pages volunteered by respondents to Usenet postings. The results, found at http://www.timedancer.com/Beta/, posted last December, are somewhat counter-intuitive. They lead to the conclusion that most of the variability in Web performance can be attributed to servers and their "pipes"—the quality and speed of their network connections.

One finding: Web pages aren't delivered faster, in aggregate, at any particular time of day, as http://www.timedancer.com/Beta/daily.html reveals. But for any single page, the time required to deliver it can range over a factor of three or four from one request to another, according tohttp://www.timedancer.com/Beta/spread.html. Taken together, these results seems to exculpate Internet load and implicate servers as the main contributors to the variability we perceive on the Web.

Another surprise: a 28.8 kbps modem on the client-end downloaded pages, is, on an average, only 40 percent faster than one running at 14.4 kbps, according to http://www.timedancer.com/Beta/144v288.html. Note that these results apply to Web browsing only, and would certainly look different if you timed other services such as FTP. The OnTime Delivery service costs $2 or less per URL per week; see http://www.timedancer.com/Forms/Subscription_Form2.html. Thanks to Frostie Sprout <frostie@wyoming.com> for alerting the Apple Internet Users mailing list to this resource.

A Model Of Server Perfo

Louis Slothouber <lou com> of StarNine Technologies, the leading Macintosh Web se developed a mathematical mode server performance—see the summary at http://louvx.b white-papers/performance/s and the full paper at louvx.biap.com/white-papers mance/overview.html . (Adobe PDF and MS Word forms of the available from http://louvx.b white-papers/default.html .) T reproduces the exponential be servers under increasing load to Webmasters everywhere—of response leading up to a "w model indicates that the wall's is determined mostly by availa work bandwidth and the averag files served.

Some intriguing results: wi work bandwidth is a bottlenec bling the server's speed results slight improvement. Adding a identical server has no effect at adding a second server that is than the first actually decreases mance.

Serious Wordsmithery At C and Case

Peter Flynn <webmaster@ww webmaster of University Colleg runs a Web-accessible acronym at http://curia.ucc.ie/info/ne nyms/acro.html, that has won 4-star and Point Top-5 percent On my first visit I just had to se 16,252-entry database containe it didn't so I added it. Thanks Langston <psl@acm.org> for th this marginally CDA-acceptable monic from the alt.folklore.c newsgroup:

"...the PPC [Apple/Motor PowerPC chip] architecture de instruction:

"Load Floating-point Sing sion indeXed with Update mnemonic "LFSUX". Whenever debugger... finds this in the bably, it adds the comment: "W bitch, then you die."

Anu Garg at Case Western University offers an e-mail (described at http://www.uc net/acronyms/mailserver.h

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Now get your own copy of VOICE & DATA at an unbelievable 40 % off !!!

TERM	STAND PRICE	PAY ONLY
1YEAR	Rs.240/-	Rs.144/-

YES! I want to subscribe to VOICE & DATA at this address:

NAME : MR./ Ms.....

ADDRESS :.....

.....

CITY : ..... STATE :..... PIN : ☐☐☐☐☐☐

Enclosed is my Cheque ☐ dated: ..... Enclosed is my DD ☐ No.: .....

(Please add Rs. 15/- for outstation cheques)

OFFER EXTENDED UPTO MAY 31ST

40% OFF ON COVER PRICE FOR 12 ISSUES

PLEASE MAIL BACK THIS CARD TO : **M/s. CYBER MEDIA (INDIA) LTD.,**
D - 74, PANCHSHEEL ENCLAVE, NEW DELHI - 1100017 PH: 643 3999, 643 5999, 641 3938 FAX: 647 5765.
[Payment : Cheque/DD to be drawn in favour of CYBER MEDIA (INDIA) LTD.]

Now get your own copy of VOICE & DATA at an unbelievable 40 % off !!!

TERM	STAND PRICE	PAY ONLY
1YEAR	Rs.240/-	Rs.144/-

YES! I want to subscribe to VOICE & DATA at this address:

NAME : MR./ Ms.....

ADDRESS :.....

.....

CITY : ..... STATE :..... PIN : ☐☐☐☐☐☐

Enclosed is my Cheque ☐ dated: ..... Enclosed is my DD ☐ No.: .....

(Please add Rs. 15/- for outstation cheques)

OFFER EXTENDED UPTO MAY 31ST

40% OFF ON COVER PRICE FOR 12 ISSUES

PLEASE MAIL BACK THIS CARD TO : **M/s. CYBER MEDIA (INDIA) LTD.,**
D - 74, PANCHSHEEL ENCLAVE, NEW DELHI - 1100017 PH: 643 3999, 643 5999, 641 3938 FAX: 647 5765.
[Payment : Cheque/DD to be drawn in favour of CYBER MEDIA (INDIA) LTD.]

Now get your own copy of VOICE & DATA at an unbelievable 40 % off !!!

TERM	STAND PRICE	PAY ONLY
1YEAR	Rs.240/-	Rs.144/-

YES! I want to subscribe to VOICE & DATA at this address:

NAME : MR./ Ms.....

ADDRESS :.....

.....

CITY : ..... STATE :..... PIN : ☐☐☐☐☐☐

Enclosed is my Cheque ☐ dated: ..... Enclosed is my DD ☐ No.: .....

(Please add Rs. 15/- for outstation cheques)

OFFER EXTENDED UPTO MAY 31ST

40% OFF ON COVER PRICE FOR 12 ISSUES

PLEASE MAIL BACK THIS CARD TO : **M/s. CYBER MEDIA (INDIA) LTD.,**
D - 74, PANCHSHEEL ENCLAVE, NEW DELHI - 1100017 PH: 643 3999, 643 5999, 641 3938 FAX: 647 5765.
[Payment : Cheque/DD to be drawn in favour of CYBER MEDIA (INDIA) LTD.]

The offer of free delivery by courier is open to all subscribers located in DELHI, BOMBAY, MADRAS, CALCUTTA, AHMEDABAD, HYDERABAD, PUNE, TRIVANDRUM & BANGALORE.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

OUR KNOWING MORE ABOUT YOU WILL HELP US SERVE YOU BETTER

(PLEASE MARK THE APPROPRIATE RESPONSE):

YOUR DESIGNATION :

MD / PRESIDENT / CEO	DIRECTOR / VP / GM
MANAGER	CONSULTANT
ANALYST/PROGRAMMER	CUST.ENGG / EXEC

YOUR WORK AREA :

MIS / COMPUTER	COMMUNICATION
MARKETING / SALES	GEN.MGT. / ADMN.
PURCHASE / FINANCE	EDUCTN / TRNG

YOU WORK FOR :

PUBLIC SECTOR	PVT. SECTOR
GOVT	MNC
EDUCATION / R&D	

WHICH IS :

AN I.T. Co	USER Co

YOUR Co. IS PRIMARILY IN :

HARDWARE	PERIPHERALS
SOFTWARE DEVP	DISTRIBUTION
RETAILING	TRAINING
CONSULTANCY	OTHER

YOUR ROLE :

APPROVING	RECOMMENDING
DEFINING SPECIFICATIONS	PURCHASE
NONE	

YOUR PLANNED PURCHASE (NEXT 1 YEAR) :

PC	SERVERS
LAN/DATA COMM. EQUIP	PERIPHERALS
CUSTOMISED SOFTWARE	SOFTWARE

OUR KNOWING MORE ABOUT YOU WILL HELP US SERVE YOU BETTER

(PLEASE MARK THE APPROPRIATE RESPONSE):

YOUR DESIGNATION :
MD / PRESIDENT / CEO — DIRECTOR / VP / GM
MANAGER — CONSULTANT
ANALYST/PROGRAMMER — CUST.ENGG / EXEC

YOUR WORK AREA :
MIS / COMPUTER — COMMUNICATION
MARKETING / SALES — GEN.MGT. / ADMN.
PURCHASE / FINANCE — EDUCTN / TRNG

YOU WORK FOR :
PUBLIC SECTOR — PVT. SECTOR
GOVT — MNC
EDUCATION / R&D

WHICH IS :
AN I.T. Co — USER Co

YOUR Co. IS PRIMARILY IN :
HARDWARE — PERIPHERALS
SOFTWARE DEVP — DISTRIBUTION
RETAILING — TRAINING
CONSULTANCY — OTHER

YOUR ROLE :
APPROVING — RECOMMENDING
DEFINING SPECIFICATIONS — PURCHASE
NONE

YOUR PLANNED PURCHASE (NEXT 1 YEAR) :
PC — SERVERS
LAN/DATA COMM. EQUIP — PERIPHERALS
CUSTOMISED SOFTWARE — SOFTWARE

OUR KNOWING MORE ABOUT YOU WILL HELP US SERVE YOU BETTER

(PLEASE MARK THE APPROPRIATE RESPONSE)

YOUR DESIGNATION :
MD / PRESIDENT / CEO — DIRECTOR / VP / GM
MANAGER — CONSULTANT
ANALYST/PROGRAMMER — CUST.ENGG / EXEC

YOUR WORK AREA :
MIS / COMPUTER — COMMUNICATION
MARKETING / SALES — GEN.MGT. / ADMN.
PURCHASE / FINANCE — EDUCTN / TRNG

YOU WORK FOR :
PUBLIC SECTOR — PVT. SECTOR
GOVT — MNC
EDUCATION / R&D

WHICH IS :
AN I.T. Co — USER Co

YOUR Co. IS PRIMARILY IN :
HARDWARE — PERIPHERALS
SOFTWARE DEVP — DISTRIBUTION
RETAILING — TRAINING
CONSULTANCY — OTHER

YOUR ROLE :
APPROVING — RECOMMENDING
DEFINING SPECIFICATIONS — PURCHASE
NONE

YOUR PLANNED PURCHASE (NEXT 1 YEAR) :
PC — SERVERS
LAN/DATA COMM. EQUIP — PERIPHERALS
CUSTOMISED SOFTWARE — SOFTWARE

CC-0. An Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

Netking Franchises Hardware Training

Netking plans to franchise its Hardware Education Institutes in Delhi and is using a computerized selection procedure. The Institutes will provide training in repair and maintenance for PCs, LANs, notebooks and UNIX and e-mail.

PRT In India

Platform Re-engineering Technologies (PRT), USA, plans to set up an Indian subsidiary as a one-stop shop for clients worldwide. Incorporated in 1993, PRT specializes in providing technological vision and direction to clients on emerging technologies, besides offering turnkey solutions and a range of technical services. The Indian subsidiary will develop software for Indian and foreign clients, and act as a recruitment agent for a Barbados subsidiary, Total Technology Solutions.

Computer Education In The Next Decade

The National Convention Of Computer Educators And Training (NCCET), 20-21 April '96, at Patna, focused on *Computer Education For All: Planning For The Next Decade 2000-2010*. The NCCET raised management and administrative matters relating to human resource development in computer literacy and also discussed sub-themes such as the status of computer education, computer literacy for policy makers, and training of computer educators. A draft national IT curricula was presented by a committee of scientists, academicians, professors, teachers and trainers.

PCs Access Mainframes With Eicon's Aviva

Eicon's Aviva Mainframe Edition, a 3270 display and printer emulation program, is a desktop-to-mainframe connectivity solution to allow Windows NT and Windows 95 users to access mainframe-based apps using *3D View*, *Tour Guide*, *Portfolio* and *OpView*. These use Eicon's Desktop Data Link Switching to consolidate LAN, WAN and SNA traffic over a TCP/IP backbone. The Aviva Mainframe Edition has been available since March 1996 and the Aviva Mainframe 5250 will be available from the third quarter of 1996.

P-Rating To Benchmark 6x86 Chips

Cyrix, SGS-Thomson, IBM and AMD have developed a processor performance indicator known as the P-rating, based on the Ziff-Davis Winstone 96, and will be used to test 6x86 chips at MDR Labs. Cyrix's 6x86 chip has already been tested, as has SGS-Thomson's ST6x86 and both delivered better performance than the Pentium. Cyrix 6x86 processors are in volume production now and ST6x86 evaluation copies were available in end-March.

TGK India And T-Net Alliance

TGK India, an Indo-Japanese joint venture, and T-Net, networking solution providers, will market Internet services. TGK India will act as a strategic business associate and national systems integrator. TGK will provide Internet solutions such as installation, user-specific training and consultancy with the necessary hardware and software. It will also provide datacom products from Shiva Corporation and Plaintree Systems, as well as Silicon Graphics computer systems.

Multimedia Accelerator Supports Microsoft's Direct 3D

SGS-Thomson's ST-2000 supports Microsoft's new Windows 95 Direct 3D API standard. This allows creating an industry-standard method for implementing multimedia functions across all Windows 95 apps. The ST2000 is the result of an alliance between SGS-Thomson and NVidia Corp which specializes in advanced PC graphics technology.

NASA's Earth-Monitoring Database

NASA has chosen Illustra Information Technologies, a recent acquisition by Informix, to develop the imaging and spatial portions of NASA's earth monitoring database system. This will provide environmental scientists with a constantly changing view of the earth and its atmosphere.

Tulip's Price Cuts

Tulip India Ltd has reduced prices from five to 21 percent on the entire range of its products. It has also reduced prices on 10 PC models introduced recently. Competitors including TISL (eight to 10 percent) and Apple (nearly 30 percent) have followed suit. Compaq and Digital have announced no price cuts, but plan heavy discounting.

Apple, Netscape And SGI Cooperate On Net Graphics

Apple Computer, Netscape Communications and Silicon Graphics announced Apple's support for the Moving Worlds VRML 2.0 proposal and Apple's contribution of its 3D metafile format (3DMF) for developing a new binary file format for Moving Worlds. This is an open, cross-platform specification for dynamic 3D environments on the Internet. 3DMF will enable higher compression, file streaming and faster parsing of 3D objects and virtual worlds. The proposal has been submitted to the VRML Architecture Group.

Lasers From Modi Xerox

Modi Xerox has introduced the MX6300 and the MX6600 laser printers. The MX6300, targeted at small offices, is a monochrome printer with a straight paper path to prevent paper jams. Users can choose various media styles, paper sizes and weights. It comes with a Windows 3.1 driver, a remote printer console to make changing printer settings easy and is compatible with PCs and Macs. The MX6600, is a professional office printer whose data compression technology allows complex graphics to be printed

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

within the standard memory available. It also has PostScript (optional) for documents with multiple typefaces and symbol sets.

Anderson Appointed Apple Chief Financial Officer

Fred F Anderson, Jr, has been appointed Executive Vice President and Chief Financial Officer of Apple Computers from 1st April. Anderson, who replaces Joseph A Graziano, will oversee finances, investor relations, tax, information systems and corporate development and will report to Apple Chairman and CEO, Dr Gilbert Amelio.

Unicorp To Sell Apple Products

Unicorp Industries Ltd has been appointed an Apple authorized distributor for the full range of Apple products. It plans to focus on the government and corporate sector.

Cisco Systems' Strategy For Enterprise Networks

Cisco Systems' CiscoBlue is aimed at customers with networks using IBM's System Network Architecture (SNA). The CiscoBlue strategy outlines how SNA users can build networks using routers and LAN and ATM switches, facilitate integrating SNA and other protocols and enable high-speed access to mainframes. CiscoBlue will also allow customers to consolidate SNA and non-SNA data and provide traffic consolidation throughout the network from data centers to branch offices. Cisco will also provide Token Ring switching products to complement its existing product range.

Business India's Tenth Local Node

Business India Information Technology's aXcess is now available through a local call in Pune. Till last year, this service was restricted to branch offices in the metros and users in other parts of India logged into INET to get to the nearest aXcess node. Business India has therefore decided to extend this service to emerging centers of commerce and industry. aXcess' large subscriber base in Pune also precipitated the demand for a local node.

Digital's New Alpha 21164 Chip

Digital Equipment Corp's new Alpha 21164 chip is manufactured in Digital Semiconductor's 0.35 micron CMOS process that yields high clock speeds and performance, a small die size and substantially lower power dissipation (20 watts). The Alpha 21164's strong floating point performance is important in the market for multimedia apps. The new Alpha chip is available at two clock speeds—336MHz and 400MHz. Alpha is the leading RISC architecture for the Windows market, with more than 1,500 ported, native-mode Windows NT apps. With the release of the Digital FX!32 translation-emulation software, Alpha microprocessors will run all 32-bit Windows apps at up to 70% of native Alpha speeds.

Matrox Implements "Quartz" Architecture In DigiSuite

Matrox Electronic Systems Ltd's DigiSuite, a set of digital video products, will feature software development tools based on Microsoft's new multimedia architecture, codenamed "Quartz". Quartz is a specific multimedia implementation of the COM architecture used in Microsoft's OLE. It features an improved audio-video file format first proposed by the OpenDML consortium. A new data streaming architecture, a consistent API for driver models and identical APIs for Windows 95 and Win... helps it overcome the ... tions of Video For ... (VFW).

DigiSuite is a family ... tal video boards and ... software development ... video apps such as ... editing systems, digital ... recorders, broadcast ... servers, live video ... M-JPEG to MPEG ... coders, commercial ... systems, CATV barker ... nels, CG/paint/ani... workstations and ... fects/compositing ... Its components in... DigiMix, a digital ... graphics mixer; Digi... a digital audio mixer; ... a multi-channel analog ... I/O board; QMPEG-2 ... channel MPEG-2 ... and Marvel Millen... video-in-a-window ...

Seminars And Exhibitions

MAY

Taguchi Methodology—Design Of Experiments
30 May 1996
Contact: Center For Reliability, VSI Estate, Thiruvanmiyur, Madras 600041. **Tel:** 44-4925479 **Fax:** 44-4925479
Email: relab@itm.ernet.in

JUNE

ESD Control In Industry
6-7 June 1996
Contact: Center For Reliability, VSI Estate, Thiruvanmiyur, Madras 600041. **Tel:** 44-4925479 **Fax:** 44-4925479
Email: relab@itm.ernet.in

Computex Taipei, Taipei
6-10 June 1996
Contact: Orbit, 1127 Midway Premises, AS Marathe Marg, Prabhadevi, Bombay-4... **Tel:** 22-220647 **Fax:** 263916

DMW '96: First Trade ... For Digital Media, Bea...
18-21 June 1996
Contact: German Hou... Nyaya Marg, Chanakya... New Delhi 110021. **Te...** 3018721, 3018730 **Fax:** 3018664

AUGUST

National Seminar on ... ware Engineering & ... plication
24-26 August 1996
Contact: Information ... nology Division, Institu... Public Enterprise, O.U. ... pus, Hyderabad 500... 40-818445 **Fax:** 40-...

CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVERTISERS INDEX

This list of advertisers is to help you in locating a particular advertisement in this issue. However, if you would like to have further information on any of the companies/products advertised herein, please write the relevant code number on the readers query card provided in this magazine and mail it to us. We will forward it to the relevant advertiser.

Code Number	Advertiser	Page Number
04001	ADROIT TECHNOLOGIES	113
04002	ALBIT	75
04003	AMERICAN POWER CONVERSIONS	16
04004	APCOM	30
04005	APLAB	20
04006	APLAB	21
04007	BENCHMARK	66,67
04008	BINARY SEMANTICS	94
04009	BINARY SEMANTICS	163
04010	BINARY SEMANTICS	167
04011	BRAIN CONTROL SYSTEMS	102
04012	COMPUAGE	97
04013	CONSUL CONSOLIDATED	98
04014	COREL SOFTWARE	48
04015	DATAPRO INFOWORLD	142
04016	DATEX	39
04017	DIGITAL WORLD INDIA LTD.	88
04018	DUCKBACK	104
04019	E C I L	160
04020	EDP AIDS	37
04021	ELECTRONIC ENTERPRISES	77
04022	ELNOVA	83
04023	FIFTH GENERATION	28
04024	FRISKERS	10
04025	FRISKERS	59
04026	HEWLETT PACKARD	41
04027	HEWLETT PACKHARD	INSIDE BACK COVER

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

04028	HYTEX SYS	85
04029	INTEGRATED EQUIPMENTS	87
04030	KUNAR PERIPHERALS	14,15
04031	LOTUS CORP.	155
04032	M C C	130
04033	M E C	107
04034	MAX SYSTEMS	93
04035	MAX SYSTEMS	102
04036	MEDIA TECH.	133
04037	MICROSYS	7
04038	MICROTEK	124
04039	MICROWARE	22
04040	MULTITECH	INSIDE FRONT COVER
04041	ORACLE SOFTWARES	53
04042	ORACLE SOFTWARES	55
04043	ORCHID	24
04044	PHAROS INFOTECH	19
04045	POWERTEL BOCA	50
04046	PRIYA INTERNATIONAL	27
04047	PRIYA INTERNATIONAL	126
04048	PUSHTAK MAHAL	127
04049	PUSHTAK MAHAL	129
04050	QUANTUM	151
04051	RADIANT ELECTRONICS	46
04052	REALTIME	33
04053	RIFOX	130
04054	SIEMENS	4
04055	SINEWAVE	34
04056	SOFTEK	159
04057	SOLUTIONS INDIA	61
04058	SYNERGY SYSTEMS	68
04059	T I S L	6,7
04060	TATA LIBERT	2,3
04061	TRIPPLITE	109
04062	VIDUR & CO	116
04063	VINITEK	93
04064	VINTRON	1
04065	WIPRO PERIPHERALS	44,45
04066	WYSE SYSTEMS	156
04067	ZENITH COMPUTERS	BACK COVER

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The PCQ Market Monitor

st prices for software, hardware and peripherals. This listing lets you compare atures and prices before buying. Use the Reader Query Service number and ard to get more information about the products listed here

SOFTWARE

OPERATING SYSTEMS & NETWORKING

Product	Developer	Price	RQS No
/in NT Server 3.51	Microsoft	41,030	E051775
/in NT Workstation 3.5	Microsoft	17,820	E051813
/in NT Workstation 3.5 MLP	Microsoft	15,130	E051814
MS DOS 6.22 RUP	Microsoft	2,050	E051897
MS DOS 6.22 RUP 20 user MLP	Microsoft	32,770	E051899
/in for Workgroup 3.11	Microsoft	5,810	E051900
/in for Workgroup 3.11 MLP	Microsoft	5,030	E051901
/in for Workgroup 3.11 20 user MLP	Microsoft	93,100	E051902
/in 95	Microsoft	6,770	E051906
Personal NetWare	Novell	3,950	E051658
Novell DOS 7	Novell	2,950	E051659
NetWare 3.12 5 Users	Novell	35,950	E051660
NetWare 3.12 25 Users	Novell	118,950	E051662
NetWare 3.12 50 Users	Novell	159,950	E051663
NetWare SFT 4.1 Upto 100 users	Novell	47,950	E051672
NetWare 4.1 5 User CD	Novell	35,950	E051674
NetWare 4.1 25 User CD	Novell	118,950	E051676
NetWare 4.1 50 User CD	Novell	159,950	E051677
SCO Desktop System 1 user CD	SCO	46,800	E051491
SCO Enterprise System 5 user CD	SCO	76,400	E051493
SCO Development System	SCO	46,800	E051494
SCO Openserver 10 user Host/Server	SCO	30,000	E051495
SCO Openserver 25 user Host/Server	SCO	60,400	E051496

COMMUNICATIONS AND GROUPWARE

Product	Developer	Price	RQS No
Procomm Plus Network (5 users)	Datastorm	27,990	E051535
Procomm Plus 2.01	Datastorm	5,6900	E051533
Procomm Plus Win 2.11	Datastorm	7,890	E051534
WinFax Pro Single User 4.0	Delrina	7,995	E05730
WinFax Pro/Server 4.0	Delrina	12,000	E05732
WinFax Pro/Networks 5/4.0	Delrina	26,000	E05733
WinFax Pro/Networks 4.0	Delrina	25,000	E05731
Dosfax Pro Single User 2.0	Delrina	5,995	E05734
Notes 10 user	Lotus	135,000	E051586
Notes Desktop 10 user	Lotus	76,000	E051588
Notes Server	Lotus	15,500	E051584
Notes Client	Lotus	15,500	E051585
cc: Mail 10 user	Lotus	15,000	E051573
Notes Desktop	Lotus	9,000	E051587
Lotus Organizer	Lotus	5,500	E051559
MS Mail Server 3.2 DOS	Microsoft	26,230	E051821
SMARTERM 320 for DOS 3.0	Persoft	9,850	E052028
SMARTERM 340 for DOS 3.0	Persoft	16,405	E052029
SMARTERM 470 for DOS 2.0	Persoft	16,405	E052030
SMARTERM Enterprise Suite 5.0	Persoft	26,030	E052031
SMARTERM for Windows 95 1.0	Persoft	12,900	E052032
SMARTERM for Windows NT 4.0	Persoft	17,300	E052033
SMARTERM 340 for Windows 4.0	Persoft	17,300	E052034
SMARTERM 420 for Windows 4.0	Persoft	12,900	E052035
SMARTERM 470 for WIndows 4.0	Persoft	17,300	E052036
SMARTERM Essential 4.0	Persoft	9,850	E052037
TN3270 Addition 4.0	Persoft	9,030	E052038
TCP Addition 4.1	Persoft	5,930	E052039
Portable TCP 1.1	Persoft	10,430	E052040

COMPUTER-AIDED DESIGN

Product	Developer	Price	RQS No
AutoCAD 13 DOS/Win	AutoDesk	104,000	E051468
AutoCAD 12 DOS/Win	AutoDesk	93,500	E051467
AutoCAD 11 DOS	AutoDesk	46,500	E051466
AutoDesk Workcentre/Win	AutoDesk	33,000	E051472
DesignCAD 2D/DOS/5.25"	ASBC	9,500	E05801
DesignCAD 3D/DOS/5.25"	ASBC	16,150	E05802
DesignCAD 2D/Win/5.25"/CD	ASBC	17,975	E05803
DesignCAD 2D 7.0/Win/3.5"[1]	ASBC	21,250	E05804
DesignCAD 3D/3.5"/CD	ASBC	23,550	E05805
DesignCAD 2D/Win 95	ASBC	19,500	E05806
DesignCAD 3D/Win 95	ASBC	25,550	E05807
DesignCAD Office 95/[2]	ASBC	59,800	E05808

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Developer	Price	RQS No
DesignCAD 2D/3D 3.01/Mac	ASBC	21,250	E05809

[1]: Includes DesignCAD 2D symbols library
[2]: Includes DesignCAD 2D, DesignCAD 3D, Professional Symbols 2D/3D, Instant Estimator, Scanpro, video tutorials for 2D/3D

DTP/GRAPHICS

Pagemaker 5.0A Win LITE	Adobe	7,950	E051730
Illustrator 4.1	Adobe	21,950	E051732
Illustrator 6.0 Mac	Adobe	19,950	E051733
PhotoShop 3.0.4 Win	Adobe	31,950	E051735
PhotoShop 3.0 Mac/Win 5 user	Adobe	132,950	E051736
Persuasion 3.0 Win	Adobe	13,950	E051737
Premiere 4.0 Win	Adobe	28,950	E051739
Audition 1.0 Mac	Adobe	10,950	E051741
Fetch 1.2A Mac Server	Adobe	6,950	E051745
Fetch 1.2A Mac 10 user	Adobe	82,950	E051747
SuperATM Mac	Adobe	6,950	E051748
SuperATM Mac 5 user	Adobe	23,950	E051749
Type Align 2.1 Win/Mac	Adobe	3,950	E051750
Type Manager Win/Mac	Adobe	2,950	E051751
Type On Call 4.0 Win	Adobe	2,950	E051756
Acrobat 2.1 Win	Adobe	8,950	E051757
Acrobat Pro 2.1 Win	Adobe	22,950	E051758
3D Studio 4 DOS	AutoDesk	28,000	E051471
Animator Studio Win	AutoDesk	20,000	E051473
Animator Pro DOS	AutoDesk	20,000	E051474
CorelDraw 3.0 CD	Corel	3,940	E051703
CorelDraw 3.0 (Disks & CD)	Corel	5,990	E052000
CorelDraw 4.0 CD	Corel	8,125	E051705
CorelDraw 4.0 (Disks & CD)	Corel	10,325	E051706
CorelDraw 5.0 CD	Corel	26,750	E051708
CorelDraw 5.0 (Disks & CD)	Corel	34,450	E051709
CorelDraw 6.0 CD	Corel	26,750	E052001
Corel Ventura 4.2 (Disk & CD)	Corel	7,675	E052002
Corel Ventura 5.0 CD	Corel	19,375	E051717
Corel Ventura 5.0 (Disk & CD)	Corel	22,600	E051718
Corel Flow (Disks & CD)	Corel	4,950	E051720
Corel Photo-Paint 5 Plus CD	Corel	4,950	E051722
Corel Art Show 4.0	Corel	2.390	E052003
Corel Art Show 5.0	Corel	2,390	E052004
Corel Xara	Corel	10,800	E052005
Corel Print House	Corel	3,277	E052006
Corel Photo Paint 6.0 Plus CD	Corel	11,130	E052007
Corel Web Data 6.0	Corel	5,600	E052008
Corel Web Gallery 1.0	Corel	4,550	E052009
Rangoli/Hindi/5.25"/3.5"	Fifth Generation	7,777	E05811
Rangoli/Gujarati/5.25"/3,5"	Fifth Generation	7,777	E05812
Rangoli/Gurmukhi/5.25"/3.5"	Fifth Generation	7,777	E05813
FrameMaker 4.0 Win/Mac	Frame	34,950	E051765
FrameMaker 4.0/Win addl user	Frame	30,950	E051766
Frameviewer 4.0 for Win/Mac	Frame	2,950	E051767
Frameviewer 4.0 5 user	Frame	6,950	E051768
Lotus Freelance DOS	Lotus	16,000	E051564
Freelance Graphics DOS/Win	Lotus	12,000	E051554
Director 4.04 Win/Mac	Macromedia	48,950	E051769
Action 3.0 Win	Macromedia	8,950	E051770
Action 1.0.4 Mac	Macromedia	8,950	E051771
Authorware 3.0 Win/Mac	Macromedia	189,950	E051772
Macromodel 1.5 Win/Mac	Macromedia	39,950	E051773

Product	Developer	Price	RQS No
Designer Power Pack	Micrografx	35,000	E05[illegible]
Designer 4.1/Picture Publisher/5.0	Micrografx	35,000	E05[illegible]
Designer 4.1	Micrografx	19,500	E05[illegible]
Designer4.0	Micrografx	19,500	E05[illegible]
Charisma4.0	Micrografx	19,500	E05[illegible]
Picture Publisher 5.0	Micrografx	27,000	E05[illegible]
ABC Flowcharter4.0	Micrografx	19,500	E05[illegible]
Snapgrafx 2.0	Micrografx	7,500	E05[illegible]
Graphics Works	Micrografx	10,000	E05[illegible]
Windows Draw	Micrografx	5,000	E05[illegible]
Windows Orgchart 2.0	Micrografx	5,000	E05[illegible]
Powerpoint 4.0	Microsoft	15,390	E05[illegible]
Powerpoint Win 95	Microsoft	15,390	E05[illegible]
Fontpack 1/2 for Win 1.0	Microsoft	2,170	E05[illegible]
Publisher for Win 2.0	Microsoft	4,330	E05[illegible]
Publisher Design Pack/Win 2.0	Microsoft	1,230	E05[illegible]
HP Font Set for Win 1.0 MLP	Microsoft	1,740	E05[illegible]
TrueType Master Set	Microsoft	1,610	E05[illegible]
Prakashak (Eng+1 Indian lang)/ DOS/Win/Mac	Sonata	12,500	E05[illegible]
Font Packs for each lang	Sonata	5,000	E05[illegible]

INTERNET PRODUCTS

Netscape Navigator 1.1/Mac/Unix	3,950	E05[illegible]
Netscape Navigator 1.2/Win/ NT/Win95	3,950	E05[illegible]
Netscape Navigator 2.0 Gold Win/NT/Win95/Mac/UNIX	5,950	E05[illegible]
Quarterdeck InternetSuite	2,990	E05[illegible]
Quarterdeck Mosaic	1,690	E05[illegible]
Quarterdeck WebAuthor	3,590	E05[illegible]
Quarterdeck WebServer	8,990	E05[illegible]
Larry Magid Essential Internet	1,890	E05[illegible]
WebCompass	6,890	E05[illegible]
WebTalk	3,790	E05[illegible]
IWare Connect 5 user	39,990	E05[illegible]

SUITES

ClarisWorks 3.0 Win	Claris	5,950	E05[illegible]
Notesuite Desktop	Lotus	24,000	E05[illegible]
Lotus SmartSuite 3.0 (Disks & CD)	Lotus	19,000	E05[illegible]
Lotus SmartSuite 3.0 5 user	Lotus	72,500	E05[illegible]
Lotus SmartSuite 3.0 10 user	Lotus	135,000	E05[illegible]
Office 4.2 Std	Microsoft	18,500	E05[illegible]
Office 4.3 Pro	Microsoft	23,500	E05[illegible]
Works for DOS 3.0	Microsoft	4,330	E05[illegible]
Works for Win 3.0	Microsoft	4,330	E05[illegible]
Works for Win 95	Microsoft	3,460	E05[illegible]
PerfectOffice 3.0 Std	Novell	22,950	E05[illegible]
PerfectOffice 3.0 Pro	Novell	29,950	E05[illegible]
Softek OFFICE/DOS	Softek	10,000	E05[illegible]
Softek OFFICE/Lan	Softek	40,000	E05[illegible]

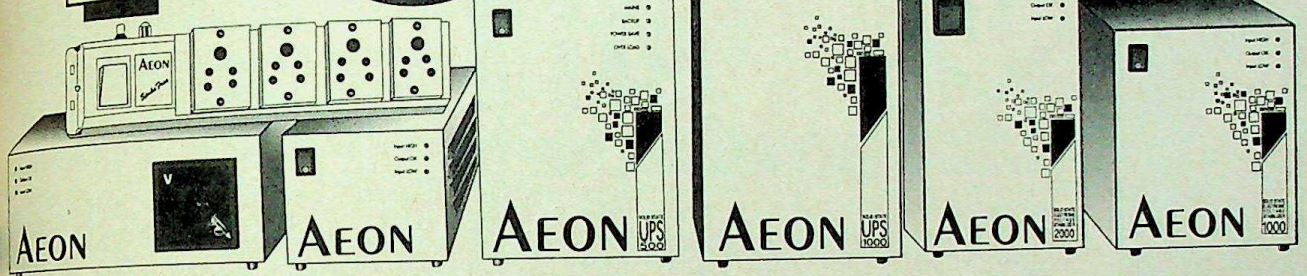
DATABASES

dBASE 5.0 for DOS	Borland	14,245	E05[illegible]
dBASE for Win Developers Kit	Borland	30,950	E05[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AEON - The SILENT REVOLUTION in POWER



CONDITIONING TECHNOLOGY

AEON **UPS** has the advanced Static Changeover technology, beating all the relay based UPS effortlessly in transfer speed. Its fully Solid State AVR takes care of mains voltage variation of an unparalleled 150 to 300V a/c. With a high speed spike suppresser internally built, and capability to withstand input surge of up to 1500V, AEON is prepared to take on the worst! Its MOSFET inverter has an intelligent Automatic Idle Run Management incorporated which cuts down unnecessary battery charge wastage when computers are not in use.

AEON **UPS** comes with internal maintenance free batteries for 30, 60 or 120 minutes backup and external battery models for more backup.

AEON **Electronic Generator** for Tube Lights, Fans, TV etc. is MOSFET based with a SMPS battery charger from 120V to 300V AC.

AEON **Spike Free** a four outlet spike suppressor with common mode and differential mode filter, master illuminated switch, ABS plastic housing in different colors to suit office decor.

AEON **Electronic Voltage Stabilizer** is a fully Solid State Voltage stabilizer which takes care of mains variation of 150 to 300V. Incorporating the On Line Tap Changing technology, with extremely fast response time, it is suitable even in areas of violent voltage fluctuation. With automatic high or low voltage cut off, high speed spike suppresser, delayed turn on, and generator compatibility, AEON **stabilizer** provides maximumprotection for all input conditions.

Quantum Power Systems

No.56, Main Channel Road, 1st Floor, Ulsoor, Bangalore - 560 008. Tel : 5540666

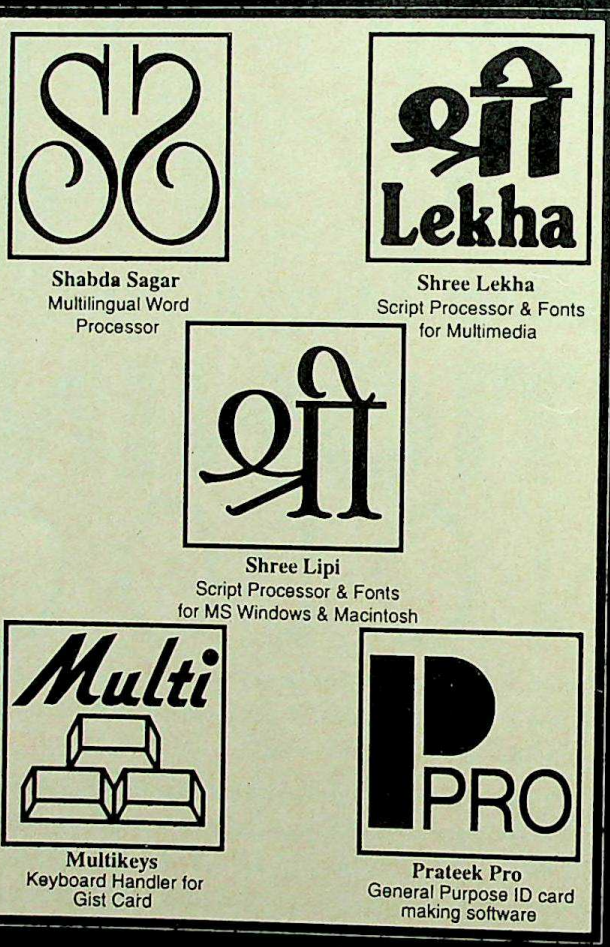
Available at :

BANGALORE : COMPUTER FACTORY (I) PVT LTD Ph. : 5566485, HARDSOFT SOLUTIONS Ph. : 648752, CADDONS COMPUTER SERVICES Ph. : 6691170, RCS TECHNOLOGIES 5566468, BUSINESS LINK Ph. : 2242033, CONNOISEUR Ph. : 5543668 ● **HUBLI** : NAVNEET SYSTEMS Ph. : 66405 ● **MANGALORE** : PALS MICROSYSTEMS LTD PH. : 572458 **GUNTUR** : FRONTLINE COMPUTERS Ph. : 232370 ● **VISAKAPATNAM** : STARGATE TECHNOLOGIES Ph. : 555920, GAYATRI COMPUTERS & COMMUNICATION SERVICES 547904 ● **KAKINADA** : BHAVA COMPUTERS Ph. : 79473, S S COMPUTERS Ph. : 72519 ● **VIJAYAWADA** : POWER SYSTEMS Ph. : 66137, MIST COMPUTERS SERVICES Ph. : 477620, TAL COMPUTERS Ph. : 476157 ● **HYDERABAD** : MC COY ASSOCIATES Ph. : 848052, PRIME COMPUTERS Ph. : 840583, EAST COAST COMPUTERS Ph. : 313208, SYSTEMS PVT LTD Ph. : 243852, SPIK & SPAN SYSTEMS Ph. : 235845, KRISHNA SYSTEMS PVT LTD Ph. : 274006, POOJA MARKETING SERVICES Ph. : 849034, BRIGHT PUTERS SERVICES PVT LTD Ph. : 842870, V-TECH SOFTWARE SYSTEMS Ph. : 563415 ● **MADRAS** : DIGITAL TECHNOLOGIES Ph. : 8279199, COMPUTER FACTORY (I) PVT. LTD 554146, INIT SYSTEMS PVT LTD Ph. : 8276070, SESHI SOFTEC SERVICES Ph. : 8251257, DIGITAL CHANNEL PH. 8275369, BIT BYTES PH. : 455599, VIDHYA ENTERPRISES 542056 ● **PONDICHERRY** : M D TOLIA COMPUTERS Ph. : 30266 ● **COIMBATORE** : LOTUS DIGITECK SYSTEMS Ph. : 232871 ● **ERODE** : BCB HARDWARE Ph. : 213435 **SALEM** : HI-Q SYSTEMS Ph. : 448271 ● **GOA** : ALLIED COMPUTER SYSTEMS Ph. : 2235783 ● **BOMBAY** : FALCON COMMUNICATIONS Ph. : 5130389 ● **COCHIN** : MUKUND MARKETING 311894, NATIONAL COMPUTERS Ph. : 364969 ● **CANNANORE** : KARE BUSINESS SERVICES Ph. : 68225, PRIMETECK SERVICES Ph. : 69781 ● **CALICUT** : DOT COMPUTERS 566643 ● **AHMEDABAD** : MOTHER PHONETIKS Ph. : 6423254 ● **RAJAHMUNDRY** : MICROMATIKS Ph. : 71702

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Chennai and eGangotri

THE PIONEER UNVEILS INNOVATIVE MULTILINGUAL SOLUTIONS



Presenting the finest range of multilingual solutions **Shree Lipi**, **Shabda Sagar**, **Shree Lekha**, **Prateek Pro** and **Multikeys**.

Brought to you by **Modular**, this product is a result of painstaking research and years of experience. The ultimate range in multilingual solutions is available in over **80 cities** and has an installed base of over **10,000 users**.

Shree Lipi : Shree Lipi is an Indian Language script processor under MS Windows, with a collection of fonts and utilities compatible with both **IBM PC and Macintosh**. The unique in desktop publishing, it supports the largest collection of Indian typefaces in all the scripts and has a variety of keyboard layouts.

Shabda Sagar : Shabda Sagar is a DOS based **multilingual word processor** with commands that are similar to Word Star. User friendly at the core, it supports a majority of printers in use. Another attractive option is the availability of a variety of keyboard layouts.

Shree Lekha : Shree Lekha is a DOS based Indian language script processor available with **fonts for multimedia** video graphics. Its diverse features support various applications including Autodesk Animator & 3D Studio.

Prateek Pro : A software package for preparing General Purpose Identity cards in Indian Languages, its applications can include Labels, Tags etc also. The package includes a simple data base editor, along with an image grabbing module, flexible layout designing and printing module for use in both B/W & colour photographs as well as text.

Multikeys : Multikeys is a DOS based keyboard layout handler for Indian Languages to be used with GIST cards. It allows the use of popular keyboard layouts like Modular, Godrej, Ramington etc. Also available is a program for generating user defined layouts.

For more details contact :

Modular Systems

26, Electronic Co-op. Estate, Pune Satara Road, Pune - 411 009.
Tel. : 0212-437994/423510. Fax : 0212-425896/452323.
E-MAIL : MODULAR.PUNE@SM08.SPRINTRPG.SPRINT.COM

National Distributors :

Cirrus Electronic Systems Ltd.
H.O.: Kamla Heights, Cirrus Chambers, 433/D, Somwar Peth, Pune-411 001 Tel.: 633226/632236/630237. Fax: 0212-631132.
Branches : ● Ahmedabad ● Bangalore ● Bombay ● Cochin ● Delhi ● Hyderabad ● Madras ● Nagpur ● Vizag

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Type	Price	RQS No
dBASE IV 1.5/2.0 for DOS	Borland	14,245	E051611
dBASE III+	Borland	13,145	E051614
Paradox 5.0 for Win	Borland	10,945	E051620
Paradox 4.5 for DOS	Borland	14,245	E051625
Delphi Standalone/CD	Borland	16,445	E051646
Delphi Client Server CD	Borland	98,945	E051647
Reviewhelp	Borland	4,345	E051652
Reportsmith 2.5 PC Databases	Borland	4,345	E051656
Filemaker Pro 2.1 Win	Claris	3,950	E051763
Filemaker Pro 2.1 Win 5 user	Claris	13,950	E051764
Lotus Approach	Lotus	4,750	E051558
Access 2.0 (Win/Win95)	Microsoft	15,390	E051846
Access Dev Kit 2.0	Microsoft	18,670	E051847
FoxPro 2.6 Professional DOS	Microsoft	26,230	E051839
FoxPro 2.6 for Win	Microsoft	5,540	E051840
FoxPro 2.6 Professional Win	Microsoft	26,230	E051841
FoxPro 3.0 STD for Win	Microsoft	11,140	E051843
FoxPro 3.0 Professional Win	Microsoft	27,890	E051844
Backoffice Server for NT 1.5	Microsoft	133,760	E051781
Backoffice Client MLP 20 user	Microsoft	254,370	E051783
SQL Server for Win NT 6.0	Microsoft	60,350	E051790
SQL Workstation, Win NT 6.0	Microsoft	29,780	E051792
SQL Client/WinNT 6.0 MLP 20 user	Microsoft	143,930	E051794
SQL Client/Win NT 4.21 MLP	Microsoft	8,990	E051803
Personal Oracle 7	Oracle	15,830	E051485
Oracle7 Workgroup Server/user	Oracle	11,822	E051486
Oracle Power Objects/Standalone	Oracle	15,830	E051487
Oracle Objects for OLE	Oracle	7,895	E051489
Personal Oracle7 Enterprise Edition	Oracle	23,610	E05810
SUPERBASE/DOS	Softek	7,500	E05890
XLM/Sybase Workgroup 8 User	Sybase	95,000	E05735
XLM/Sybase Workgroup 12 User	Sybase	250,000	E05736
XLM/Sybase Workgroup 16 User	Sybase	295,000	E05737
XLM/Sybase Workgroup 32 User	Sybase	490,000	E05738
XLM/Sybase Workgroup 48 User	Sybase	750,000	E05739
XLM/Sybase Workgroup 64 User	Sybase	850,000	E05740
ACT! 2.0 WIN 3.5"	Symantec	7,800	E05667
ACT! 2.0 WIN Mobile Link 3.5"	Symantec	17,300	E05668
ACT! 2.1 DOS 5-Node	Symantec	23,600	E05669
1-2-3 4.0 DOS 3.5"	Symantec	12,000	E05670
1-2-3 4.0 DOS 3-Node 3.5"	Symantec	23,500	E05671
1-2-3 4.0 WIN 3.5"	Symantec	9,800	E05672
1-2-3 4.0 WIN 3 Node 3.5"	Symantec	17,900	E05673

PROGRAMMING TOOLS AND LANGUAGES

Product	Type	Price	RQS No
Borland C++ 4.5 DB Tools Super Pack	Borland	41,950	E051629
Borland C++ 4.5 DOS	Borland	19,950	E051630
Borland C++ 4.5 Win NT	Borland	11,950	E051631
Borland C++ 4.5 and Database Tools	Borland	28,950	E051630
Borland DatabaseEngine for Win	Borland	15,950	E051632
Borland Visual Solution Pack	Borland	3,950	E051633
Borland Power Pack for DOS	Borland	3,950	E051634
Runtime Library Source Code	Borland	3,950	E051636
Turbo Assembler DOS	Borland	3,950	E051637
Borland Pascal 7 with Objects DOS/Win	Borland	19,950	E051640
Turbo C++ 3.0 for DOS	Borland	6,950	E051641
Turbo C++ Visual Edition/Win	Borland	6,950	E051642
Turbo Pascal 7.0 DOS	Borland	6,950	E051643
Borland SQL Link/Win	Borland	3,950	E051644
SQL Programmer Toolkit for Win NT 4.21	Microsoft	25,570	E051807
Multimedia Toolkit for Win	Microsoft	12,330	E051912
MS Professional Basic for MS-DOS 7.10	Microsoft	18,720	E05448
MS Quick Basic for MS-DOS 4.50	Microsoft	7,530	E05449
MS Visual Basic for Win 4.00 Update	Microsoft	2,660	E05450
MS Visual Basic for Win 4.00	Microsoft	5,320	E05451
MS Visual Basic for MS-DOS 1.00	Microsoft	7,530	E05452
MS Visual Basic Pro for Win 3.00 CompUpg CDROM	Microsoft	11,150	E05458
MS Visual FoxPro for Win 3.00 Upg 3.5"	Microsoft	5,550	E05460
Tool Book 4.0	Asymatrix	11,495	E05855
Multimedia Tool Book 4.0/CD	Asymatrix	63,710	E05856
Media Blitz	Asymatrix	7,090	E05856

SPREADSHEETS

Product	Type	Price	RQS No
Lotus 1-2-3 2.4	Lotus	12,000	E051548
Lotus 1-2-3 2.4 5 user	Lotus	48,000	E051549
Lotus 1-2-3 4.0	Lotus	13,500	E051551
Lotus 1-2-3 4.0 5 user	Lotus	54,000	E051552
Lotus 1-2-3 5.0	Lotus	12,000	E051555
Excel 5.0 Win	Microsoft	15,390	E051852
Excel for Win 95	Microsoft	15,390	E051856
Quattro Pro 5.5 DOS	Novell	2,950	E051699
Quattro Pro 5.5 DOS 10 user	Novell	29,950	E051700
softCALC/DOS	Softek	4,500	E05904
softCALC/LAN	Softek	15,000	E05905

WORD PROCESSORS

Product	Type	Price	RQS No
Lotus Amipro	Lotus	4,750	E051557
Word 6.0 for DOS	Microsoft	15,390	E051871
Word 6.0 for Win	Microsoft	15,390	E051873
Word Assistant for Win 1.0	Microsoft	2,030	E051877
Proofing Tools for Win/DOS	Microsoft	3,080	E051878
WordPerfect 6.0 DOS	Novell	9,950	E051683
WordPerfect 6.1 Win	Novell	14,950	E051685
softWORD/DOS	Softek	4,000	E05912
softWORD/LAN	Softek	15,000	E05913
Wordstar 7.0	Wordstar	2,990	E05685
Wordstar 6.0	Wordstar	1,990	E05686
Wordstar 4.0	Wordstar	990	E05687
Wordstar 6.0 (Server Pack)	Wordstar	1,990	E05688
Wordstar 6.0 (Node)	Wordstar	1,500	E05689
Wordstar for Win 4.0	Wordstar	1,500	E05690
Wordstar for Win 4.0	Wordstar	4,995	E05691
Stellar 4.0	Unistal	3,990	E05713
Marg Darshak 1.0	Unistal	990	E05714

PROJECT MANAGEMENT

Product	Type	Price	RQS No
MS Project 4.0 DOS	Microsoft	16,480	E051866
MS Project 4.0 Win	Microsoft	23,140	E051867
MS Project for Win 95	Microsoft	23,440	E051868

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

FINANCIAL ACCOUNTING

Product	Type	Price	RQS No
WinCA/DOS	Softek	9,000	E05893
WinCA/Win	Softek	12,000	E05894
WinCA/LAN	Softek	14,000	E05895
E.X 3.0	TCS	9,950	E05706
E.X 3.0 LAN	TCS	19,950	E05707
E.X 2.0	TCS	4,950	E05708

UTILITIES

PC Tools Pro DOS 9.0 3.5"/5.25"	Sonata	6,995	E05682
PC Tools Win V2.0 3.5"	Sonata	6,995	E05684
PC Tools Pro DOS 9.0	Central Point	6,975	E05722
PC Tools Win 2.0	Central Point	6,975	E05723
Xtree Tools for NetWare 1.5	Central Point	4,000	E05726
Norton Utilities 8.0 DOS/WIN	Symantec	6,400	E05662
Norton Editor 2.0 3.5"	Symantec	3,600	E05663
Norton Commander 5.0 DOS	Symantec	3,600	E05664
Norton Backup 2.2 DOS 3.5"	Symantec	5,400	E05665
Norton Backup 3.0 WIN 3.5"	Symantec	6,400	E05666
Norton Utilities Administrator/5-User	Symantec	8,400	E05678
Norton Utilities Administrator/25-User	Symantec	36,500	E05679
Norton Utilities/Win95 3.5"	Symantec	6,400	E05681
Norton Desktop for DOS/win 3.0	Symantec	5,600	E05715
Norton Utilities 8.0	Symantec	5,600	E05716
Norton PC Anywhere DOS/win 5.0	Symantec	6,200	E05717
Visual Baler	Techtools	14,590	E051537
Baler 6.0	Techtools	14,590	E051538
Slicer/Dicer 1.0	Techtools	43,990	E051543
Format	Techtools	16,990	E051544

ANTI-VIRUS

CP Antivirus Dos 2.2	Central Point	4,500	E05724
CP Antivirus Win 2.0	Central Point	4,500	E05725
CP Antivirus for NetWare Dual 5 User 2.5	Central Point	19,950	E05727
CP Antivirus for NetWare Dual 10 User 2.5	Central Point	30,500	E05728
CP Antivirus for NetWare Dual 50 User 2.5	Central Point	110,000	E05729
IAVT 3.01/DOS/5.25"/3.5"	Fifth Generation	1,888	E05866
IAVT 3.01/LAN/5.25"/3.5"	Fifth Generation	3,888	E05867
F-Prot Professional/DOS	Knoxware	2,250	E052024
F-Prot Professional/OS/2/Win 95	Knoxware	3,000	E052025
F-Prot Professional/Win NT	Knoxware	4,000	E052026
Net Prot NLM/Novell NetWare	Knoxware	18,000	E052027
Vaxine/MS-DOS/Zero installation set	Pioneer Micro Systems	2,000	E05908
Vaxine/MS-DOS/Win 3.1/95/	Pioneer Micro Systems	3,000	E05909
Vaxine/Novell NetWare 2.x, 3.x &4.x	Pioneer Micro Systems	8,000	E05910
Vaxine/Novell NetWare 3.x, 4.x NLM Pioneer	Micro Systems	18,000	E05911
NAV 10-User/NetWare 2.0 Dos/Win	Symantec	14,900	E05674
NAV 50-User/NetWare 2.0 Dos/Win	Symantec	161,000	E05675
NAV 10-User/Networks 2.0/Win	Symantec	23,000	E05676
NAV 50-User/Networks 2.0/Win	Symantec	108,000	E05677

Product	Developer	Price	RQS No
NAV for Win 95 3.5"	Symantec	3,600	E05[illegible]
NAV 3.0	Symantec	4,050	E05[illegible]
NAV for NetWare 2.0	Symantec	13,975	E05[illegible]
Nashpack Rel 3.0	Nashsoft	5,495	E05[illegible]

MEMORY MANAGEMENT

Cleansweep 95	Quarterdeck	1,990	E05[illegible]
CleanSweep	Quarterdeck	2,290	E05[illegible]
DESQVIEW/X	Quarterdeck	12,990	E05[illegible]
DESQVIEW	Quarterdeck	4,990	E05[illegible]
DESQVIEW/386	Quarterdeck	7,690	E05[illegible]
QEMM 7.2	Quarterdeck	4,290	E05[illegible]
QEMM 8	Quarterdeck	4,490	E05[illegible]
Sidebar	Quarterdeck	2,690	E05[illegible]
MagnaRAM 2	Quarterdeck	2,290	E05[illegible]
WinProbe 4	Quarterdeck	3,290	E05[illegible]

Prices provided by:

- **AutoDesk:** HOPE, B-1 Geetanjali Enclave, New Delhi 110017. Tel: 6851979, 6866441. Fax: 11-6866494
- **DesignCAD, Corel CDs, Persoft:** Svam Software, 11-Abul Fazal Enclave, Bengali Market, New Delhi-110001. Tel: 11-3320224, 3731844 Fax: 3723266.
- **IAVT/Rangoli:** Fifth Generation Software, 140, Zamrudpur, Opp. LSC, New Delhi 110048. Tel: 6210808, 6224997, 6229805.
- **Knoxware:** 506, Ist Floor, 9th Main, 3rd Cross, HAL II Stage, Indiranagar, Bangalore 560008. Tel: 11-5288490.
- **Microsoft, SCO, Borland, Novell, Corel, Lotus, Datastorm and Quarterdeck products:** Dynamic Computer Services, Sun Flower, 170 Lloyds Road, Gopalapuram, Madras 600086. Tel: 44-8272726, 8271684, 8277[illegible] Semantics, A-6, C Block Community Centre, Naraina Vihar, New Delhi 110028. Tel: 11-533544, 5415615. Fax: 11-5459406.
- **Datastorm, Quarterdeck, Techtools, Internet products:** Unison Computer Systems, 164, Senapati Bapat Marg, Matunga(WR), Bombay 400016. Tel: 22-4374671.
- **Oracle, Frame, Microsoft, Adobe, Borland, Corel, Macromedia, Lotus, SCO, Symantec, Central Point, Delrina, Softek, Unisoft:** Tulip Software, J-31, South Extension, Part-I, New Delhi 110049. Tel: 4620410, 4694591. Fax: 11-4610292.
- **Micrografx:** Softek, M-42, Commercial Complex, Greater Kailash II, New Delhi 110048 Tel: 11-6415312, 6447308 Fax:11-6482680.
- **Microsoft:** Microsoft, 24 Paharpur Business Centre, Nehru Place New Delhi 110019. Tel: 11-6460694, Fax: 11-6474714.
- **Nashsoft Systems,** 101, Indraprakash Building, Barakhamba Road, New Delhi 110001. Tel: 11-3721583.
- **Netscape:** Wipro Systems, 88 MG Road, Bangalore 560080. Tel: 80-5[illegible] Fax: 80-5586952.
- **Novell:** Onward Novell, Krislon House, 2nd Floor, Saki Vihar Road, Naka, Bombay 400072. Tel: 22-8364180. Fax: 22-8364180.
- **Lotus:** ITC, 28 Community Center, Basant Lok, Vasant Vihar, New Delhi 110057. Tel:11-6882556, 6872893. Fax: 11-6885339, 6872883.
- **Oracle:** 705 International Trade Tower, Nehru Place, New Delhi 110019. Tel: 11-6475286, 6475287. Fax: 11-6866494
- **Vaxine:** Microz AS Solutions, E-20 Purvasha, Ananad Lok, Mayur Vihar, New Delhi-110091. Tel: 11-2254567. Fax: 11-2256042, 2256931.
- **CDs:** Lee & Nee Softwares, 14B Camac Street, Calcutta 700017. Tel: 4015153. Fax: 033-2477359; Innoserv Systems, X-29 Hauz Khas New Delhi 110016. Tel: 11-6863058, 6968626 Fax: 696911.

Attention: While all prices were current at the time of going to press, readers are advised to reconfirm them with the vendors before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LEARN how to tie

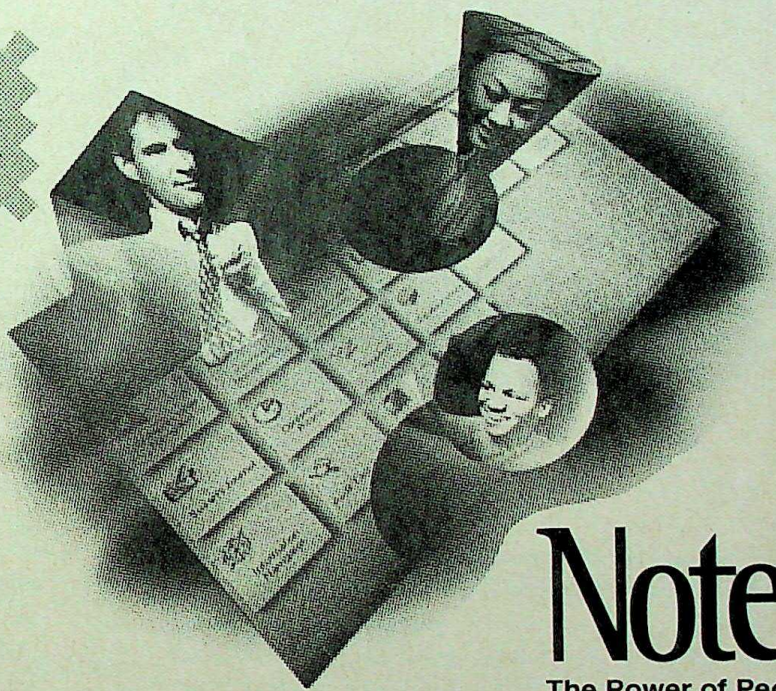
Lotus Notes Release 4,

the Internet and
crucial business
processes together–

IN JUST ONE DAY.

Drive in with questions. Drive out with answers.
Take away a FREE Lotus Notes Starter pack.

LOTUS NOTES TECHNICAL WORKSHOP
Delhi, Le Meridien, 4th June, 1996.
Mumbai, Hotel President, 6th June, 1996.
Time- 10: 00 a.m.- 5:30 p.m.



Notes 4

The Power of People
Working Together

Lotus Notes Release 4 gives you the fastest way to develop and deploy a new generation of network-based groupware applications that enable your organization to communicate, collaborate, and coordinate everyday business processes in exciting, powerful new ways.

The Notes Technical Workshop gives you the fastest way to get familiar not only with Notes core capabilities-but also with the exciting new application development and infrastructure enhancements in Notes Release 4.

Workshop Fees - Rs 7000/- per participant.
Conducted by a Lotus Certified Instructor from U.S.A.

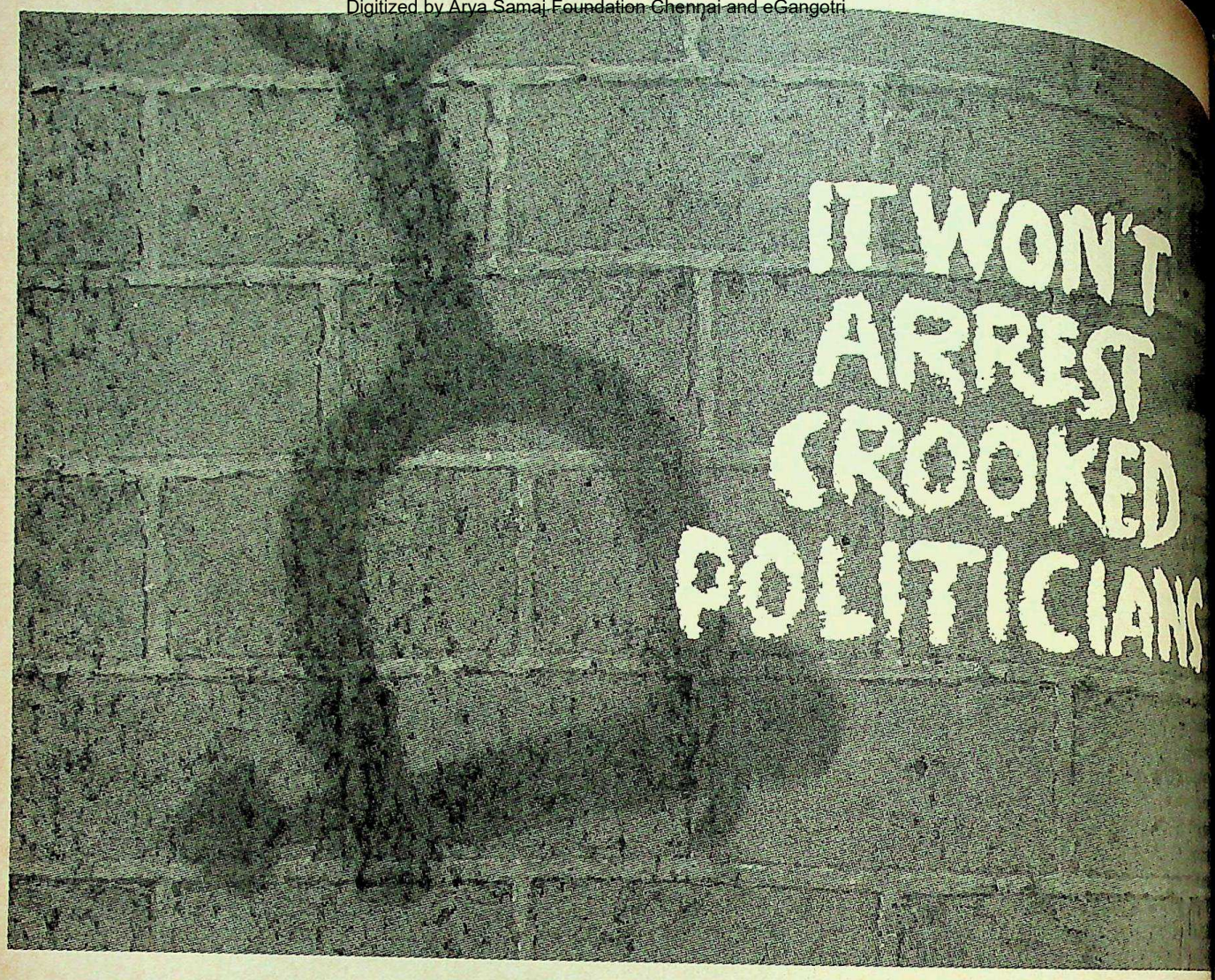
Draft /Cheque payable in favour of
Tata Consultancy Services.
For reservations, contact - TCS
Delhi: Tushar Gupta Ph : 8-531622-25 Fax : 8-552313
Mumbai: Mukund Kaushik/ Darshna Mehta
Ph : 2024881,2024828 Fax : 2875501
Spot reservations from 9:30 a.m.

TCS

Lotus
Working Together
India Liaison Office, New Delhi
Ph 6168140 Fax 6182543
Lotus Development Corporation is an IBM subsidiary.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

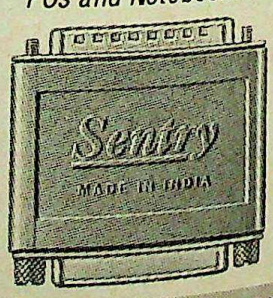
Digitized by Arya Samaj Foundation Chennai and eGangotri



but count on the *Sentry* Hardware Lock to arrest software piracy.

Unmatched security features in a truly world-class product add up to give you software protection like never before.

- *Supports DOS / DOS Extenders / Windows 3.X, Windows NT / Windows '95 / Netware and all 16-bit and 32-bit low-level and high level languages.*
- *Compatible with a wide variety of popular printers, PCs and Notebooks.*



The deadlock for software pirates.

WYSE SYSTEMS, S. No. 82 / 1. Plot 20, Sahakarnagar, Parvati, Pune 411009. INDIA. Ph. : 91 - 212 - 424058 / 420486. Email : ydw.sentry@wyse.sprintrpg.sprint.com

AUTHORISED DISTRIBUTOR FOR NORTH : *Abhyudaya Enterprises, Bombay, Ph.: 022- 2661625. Fax: 022 - 2610505.* AUTHORISED DEALERS: *Computers, Ahmedabad, Ph.: 079 - 417913. Fax : 079 - 6426919.* □ *ICS Software Pvt. Ltd. Bangalore, Ph.: 080 - 3331580. Fax : 080 - 6644[illegible]. Electronics & Electricals Pune, Ph.: 0212 - 452139. Fax : 0212 - 455386.* □ *Guide International, Dubai, Ph.: 971 - 4 - 663383. Fax : 971 - 4 -*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE

MODEMS

Product	Max Speed	Price	RQS No
T Comsphere 3810+	33,600	95,000	E051941
T Comsphere 3920+	33,600	125,000	E051942
T Dataport 2001	14,400	27,500	E051943
rola Lifestyle V34	28,800	19,000+T	E051234
rola 3266 V32 bis	28,800	51,000+T	E051235
rola 3266 V34	28,800	102,500+T	E051236
rola 3266 V34 SDC	28,800	128,000+T	E051237
tech MT2834ZDX	28,800	18,950	E051947
tech MT2834BL	28,800	39,950	E051948
tech MT1432BL	14,400	29,950	E05796
us 9624 SE	2,400	7,500	E051949
us 1414 PC	14,400	10,000	E051951
us 1414 SE	14,400	12,500	E051952
us 1414 SD	14,400	25,000	E051953
Link 2024E	2400	7,000	E051935
rick 2144E	14,400	9,500	E051936
Courier V.34	28,800	40,500	E051931
Sportster V.34	28,800	21,500	E051932
Sportster SP14400	14,400	13,500	E051933
P PCMCIA Fax Modem	14,400	17,500	E051934
e Elite 2864	28,800	30,950	E051944
ster SP 28800 (E)	28,800	22,500	E05383
ster SP 28800 (I)	28,800	19,500	E05384
ster SP 14400 (E)	14,400	13,500	E05385
ster SP 14400 (I)	14,400	11,500	E05386
ster SI 14400 (E)	14,400	8,000	E05387
ster SI 14400 (I)	14,400	7,500	E05387
ster VI 14400 voice	14,400	17,500	E05388
ster PCMCIA World Port	V.32 bis	17,500	E05389
e V.34	28,800	43,500	E05390
rsense 14400 Data/Fax	14,400	11,500	E05391
rsense 28800 Data/Fax	28,800	17,500	E05392

Quarterdeck software (DOS/Win) is supplied with US Robotics & Netsense modems

PLOTTERS

Product	Price	RQS No
DesignJet 230(A1/D)/m	104,500	E051186
DesignJet 230 (A0/E)/m	140,500	E051187
DesignJet 250C(A1/D)/c	130,000	E051188
DesignJet 250C(A0/E)/c	175,800	E051189
DesignJet 600 (A1/D)/m	193,500	E051192
DesignJet 600 (A0/E)/m	228,800	E051193
DesignJet 750C(A1/D)/m	308,800	E052010
DesignJet 750C(A0/E)/m	362,200	E052011
DesignJet 755CM	543,000	E052012

All enhanced mode plotters w/4MB RAM and 600 dpi resolution.
m-monochrome, c-color, e-enhanced mode

POINTING DEVICES

Product	Price	RQS No
Genius Easy Mouse	422	E051372
Genius Mouse One	629	E051373
Genius Mouse Too	715	E051374
Genius Mouse 3	686	E051375
Genius MyMouse Cobra/Leopard/Blue/Purple	930	E05912
Genius Joystick	572	E051378
Primax Mouse I Musige	486	E051404
Primax Mouse II Musige	701	E051405
Primax Echo Mouse IV	379	E051406
Logitech First Mouse	825	E05256
Logitech Mouseman Combo	2,300	E05257
Logitech Mouseman Cordless	6,500	E05258
Logitech Trackman Portable	2,150	E05259
Logitech Trackman II	2,500	E05260
Vintron Mouse MD-14	575	E05261
Logitech Dexxa Mouse	525	E05262
Logitech Cyberman	5,500	E05263
Logitech Kidz Mouse	1,995	E05295
Logitech Mouseman Sensa	2,995	E05296
Logitech Trackman Voyager	2,995	E05297
Logitech Trackman Live	7,995	E05298
Logitech Trackman Marble	4,495	E05299
Logitech Trackman Vista	3,795	E05300

PRINTERS: DOT MATRIX

Epson LX 300/9 p/80 c/264 cps	9,900	E051196
Epson FX 1000/9 p/136 c/240 cps	14,375	E051197
Epson FX 1050/9 p/136 c/290 cps	17,500	E051198
Epson LQ 1020+/24 p/136 c/289 cps	25,625	E051199
Epson LQ 1170/24 p/136 c/289 cps	30,000	E051200
Epson DFX 5000+/9 p/155 c/555 cps	60,000	E051201
Epson DFX 8000/9 p/136 c/1066 cps	148,000	E051202
TVSE MSP 145Plus/9 p/132 c	13,995+T	E051241
TVSE MSP 155/9 p/132 c	17,995+T	E051242
TVSE HD 6595/9 p/132 c	27,495+T	E051243
TVSE HD 6045/24 p/136 c	36,495+T	E05786
TVSE HD 6590/9 p/80 c	23,995+T	E05787
TVSE HD 6040/24 p/80 c	28,995+T	E05788
TVSE HD 5650/24 p/106 c	85,000+T	E05789
TVSE HD 5000/18 p/136 c	98,895+T	E05790
TVSE MSP 240/9 p/80 c	8,995+T	E051244
TVSE Calligra Q10/24 p/80c	14,995	E05783
TVSE Calligra Q20/24p/80c	16,995	E05784
TVSE Calligra Q25/24 p/136 c	22,495+T	E051246
TVSE Calligra Q35/24p/136 c	27,995+T	E05785
Wipro LX 800/9 p/80 c	9,350	E051261
Wipro LX 300/9 p/80 c	9,800	E051262
Wipro LQ 100/24 p/80 c	14,200	E051263
Wipro LQ 300/24 p/80 c	15,600	E051264
Wipro EX 1050/9 p/132 c	18,500	E051265

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Wipro FX 1170/9 p/132 c	37,700	E051266
Wipro LX 1050/9 p/132 c	17,100	E051267
Wipro LQ 1050+/24 p/132 c	26,000	E051268
Wipro LQ 1170/24 p/132 c	39,270	E051269
Wipro LQ 1070/24 p/132 c	26,650	E051270

Note: **T**–Tax, **p**--pins, **c**—columns

PRINTERS: INKJET

Apple Style Writer 1200	21,600	E051335
Apple Color StyleWriter 2200	31,800	E051336
Apple Color StyleWriter 2400	36,100	E051337
HP DeskJet 400	11,900	E052013
HP DeskJet 600C	3,920	E052014
HP DeskJet 600/600 d/512 kB	18,000	E051171
HP DeskWriter 600/600 d/512 kB	18,000	E051174
HP DeskJet 850C/600 d/1 MB	28,899	E051179
HP DeskJet 1600C/8 p/600 d/4 MB	74,400	E051182
HP DeskJet 1600CM/8 p/600 d/6 MB	108,500	E051183
Epson Stylus 800 m	16,100	E051250
Epson Stylus 1000/A2 m	41,500	E051251
Epson Stylus 820/720 d/c	21,700	E051252
Epson Stylus Color IIS/720 d/c	26,500	E051253
Epson Stylus Color II/720 d/c	31,500	E051254
Epson Stylus Pro/720 d/c	44,500	E051255
Epson Stylus Pro XL/720 d/A3 c	131,000	E051256
Olivetti JP70/80col/3ppm/portable	20,400	E05779
Olivetti JP170/80col/3ppm	16,433	E05780
Olivetti JP470/80col/5ppm	25,500	E05781
TVSE NOVO 300/2ppm	9,995	E05791
TVSE Impress P20/page printer/4ppm	29,995	E05792

Note: **d**--dpi, **c**--color, **m**—monochrome, **p**--pages per minute

PRINTERS: LASER

Apple LaserWriter Select 360	118,800	E051340
Apple LaserWriter 16/600 PS	173,900	E051342
Apple Color LaserWriter 12/600	473,200	E051345
HP LaserJet 4+/12 p/600 d/2 MB	94,350	E051163
HP LaserJet LJ 4M+/12 p/600 d	127,500	E051164
HP LaserJet LJ 4V/16 p/600 d	130,050	E051167
HP LaserJet LJ 4MV/16 p/600 d	188,700	E051168
HP LaserJet Color LJ 5	470,000	E052017
HP LaserJet Color LJ 5M	570,000	E052018
TVSE Impress P20	29,995+T	E051247
EpsonEPL 3000	34,000	E051248
EpsonEPL 9000 A3 Laser	172,000	E051249

Note: **p**--pages per minute, **d**--dpi

SCANNERS

Genius Scanmate 32	4,000	E051380
Genius Easy Scan 256	3,647	E051381
Genius Scanmate Color	10,296	E051382
Genius Color Page I	35,035	E051383
Genius Color Page II	60,050	E051384
Genius Fast Reader	20,020	E051385
HP ScanJet 4s	20,199	E05797
HP ScanJet 4P	32,207	E052019

Product	Price
HP ScanJet 4c	66,145
HP Scanjet 4si(Ethernet)	169,796
HP ScanJet 4si(Token Ring)	180,882
Primax SE42IX/HS	4,000
Primax SE42IG/HS	5,500
Primax SM403C-P/MS	18,500
Primax SP311/Datapen	14,300
Primax Deskscan/Color FS	34,320
Logitech Scanman 32	5,200+T
Logitech Scanman 256	7,650+T
Logitech Scanman Easytouch	10,750+T
Logitech Scanman Color	13,900+T
Logitech Scanman Powerpage	29,000+T
Dexxa GS 32 Scanner	4,900
Dexxa GS 256 Scanner	7,500

Note: **HS**—Hand Scanner, **MS**—Mobile Scanner, **FS**—Flatbed Sc

UPS SYSTEMS

APC BK 250I	250VA	7,950
APC BK 400I	400VA	12,350
APC BK 600I	600VA	15,500
APC BK 900I	900VA	28,050
APC BK 1250I	1250VA	36,250
APC BP 280I	280VA	9,750
APC BP 420I	420VA	15,500
APC BP 650I	650VA	23,450
APC AP 600I	600VA	28,250
APC AP 900I	900VA	44,900
APC AP 2000I	2000VA	99,000
AP600I	600VA	28,650
AP900I	900VA	45,000
AP1250I	1250VA	60,500
AP2000I	2000VA	94,500
AP600XLI	600VA	63,750
AP900XLI	900VA	73,350
BP1000I	1000VA	40,000
BP1400I	1400VA	51,500
MX3000W	3000VA	215,000
MX5000W	5000VA	297,000
Aegis/Online	1000VA	44,995+T
Aegis/Online	3000VA	99,995+T
Aegis/Online	5000VA	189,995+T

OTHERS

Logitech Soundman 16	4,200+T
Logitech Soundman Wave	13,900+T
Logitech Fotoman Pixture	83,995+T
Logitech Scanman Pagerscan	27,995+T
Logitech Wingman Light	995+T
Logitech Wingman	1,995+T
Logitech Wingman Extreme	2,495+T
Logitech Thunder Pad	995+T

DESKTOPS

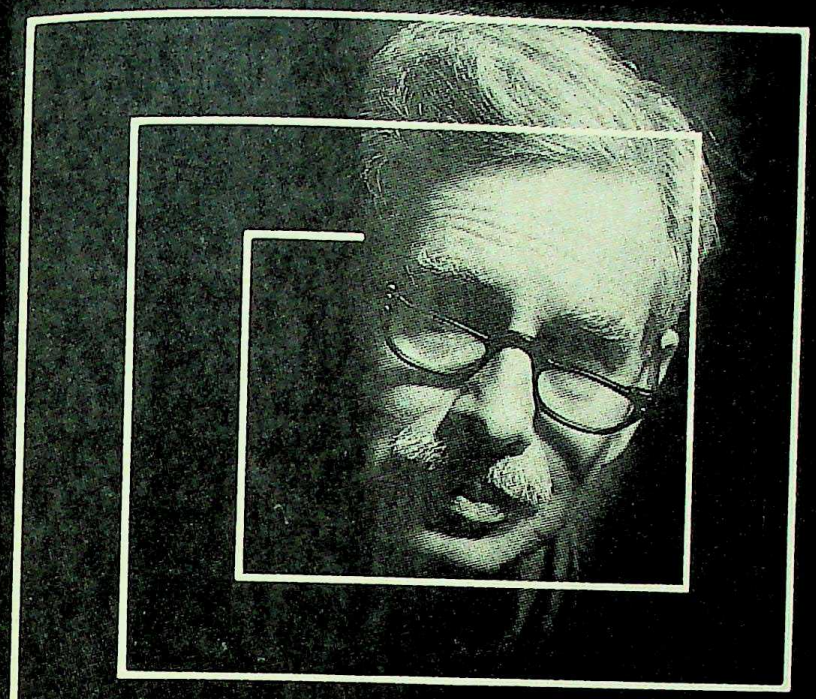
APPLE

Mac LC 475/4 MB/250 MB HDD/mono VGA	54,400
Performa 5200/8 MB/500 MB HDD/CD-ROM	159,400

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

A BUSINESS ACCOUNTING SOFTWARE



FOR THOSE WHO HAVE FIGURED OUT THE FUTURE.

SOFTEK

WinCA

COMPLETE ACCOUNTING SOFTWARE
WITH WINDOWS BASED TECHNOLOGY

One look at WinCA and you can easily figure out why its the most preferred software of the financial Wizards today.

The possibilities are unlimited. Be it Financial Accounts, Inventory, Sales, Purchase or anything else, WinCA is the most comprehensive Accounting & MIS Software. Available in MS DOS, WINDOWS AND LAN versions, its the proven user-friendly Software that takes you right at the cutting edge of technology with its intuitive interface and a powerful inventory module. WinCA is inexpensive and is ideal for all your Accounting needs. Particularly for set-ups where the top management likes to have personal access to accounting data. And to know what more is possible, mail us this coupon today.

SOFTEK
WORLD CLASS SOFTWARE
WITHIN YOUR REACH

M-42, Commercial Complex,
Greater Kailash-II, New Delhi - 110 048.
Ph : (011) 6415312, 6482681, Fax : (011) 6482680

COUPON

I am interested in WinCA My Address is .....

☐ send me more information .....

☐ ask your representative to call on me. .....

Business card is attached

OFFICES • 3rd Floor, Raja Rajeswari Towers, 29-30, Dr. Radhakrishnan Salai, Madras : 600004, Ph. (044) 825-8804, 824-0971 • Shyam Kamal 'A' 1st Floor, Station Vile Parle (East) Bombay : 400057, Ph : (022) 6101147, 6101170, Fax : (022) 6116756 •1301, Brigade Towers, 135, Brigade Road, Bangalore : 560025, Ph : (080) 2213853, 221-7855 • 237, Jodhpur Park, Calcutta : 700068, Ph : 4722443

m & m /96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ading computer manufacturer in South India invites vendors for registra... for supply of the following items on a regular basis.

- Mother boards 386DX, 486DX, PENTIUM, PCI/EISA, PCI/ISA
- Controllers 16/32 bit SCSI on PCI, ISA, EISA with MEMORY UPTO 2MB on ISA, PCI, VL Bus
- Memory Modules 1mb, 2mb, 8mb, 16mb with true parity in 30 pin and 72 pin SIMMs
- Monitors VGA MONO, SVGA COLOUR 0.28 Dot pitch interlace/ non interlace
- Key Boards 101 key PCAT compatible
- Terminals VT100, VT220 Compatible, GIST with all Indian Languages.
- Line/Line matrix Printers 300 to 1400 1pm
- Floppy disk drives 1.2 mb, 1.44mb, 2.88mb
- CD ROM drives dual/quad speed , IDE/SCSI
- SMPS 80 to 350 watts.
- PC cabinets DESK TOP, SLIM LINE, MINI TOWER, FULL TOWER
- SOFTWARE like MS DOS, WINDOWS, etc.,
- SERVICING of Winchester Drives

Interested manufacturers, authorised distributors/dealers, traders ... please send their introductory letters along with company profile, techn... literature, budgetary pricing etc., to reach within 30 days of this advertisem...

Box No PC/HYD/MAY/I
C/o. PC QUEST
Room No. 12, 5th floor
Srinath Commercial Complex
S D Road, SECUNDERABAD - 500 003.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
Performa 6200/8 MB/500 MB HDD	115900	E051299
Performa 6200/8 MB/500 MB HDD/CD	137,600	E051300
Power Mac 8100/100/16 MB/700 MB HDD/CD-ROM	295,700	E051310
Power Mac 8100/100/16 MB/1000 MB HDD/CD-ROM	351,800	E051311
Power Mac 8100/110/24 MB/2000 MB HDD/CD-ROM	457,700	E051312
Power Mac 9500/132/32 MB/2000 MB HDD/CD-ROM	500,300	E051313
Power Mac 9500/132/32 MB/2000 MB HDD/ CD-ROM/Video card	520,600	E051314
Power Mac 7200/90/16 MB/500 MB HDD/CD-ROM	175,700	E051315
Power Mac 7200/90/16 MB/1000 MB HDD/CD-ROM	196,000	E051316
Power Mac 7500/100/16 MB/500 MB HDD/CD-ROM	189,000	E051317
Workgroup Server 8150/16 MB/1000 MB/CD-ROM	472,600	E051322
CHAMPION		
Pentium 120/8MB RAM/PCI VGA with 1MB	54,400+T	E05762
Pentium 100/8MB RAM/PCI VGA with 1MB	50,600+T	E05763
Pentium 90/8 MB RAM/PCI VGA with 1MB	48,700+T	E05764
Pentium 60/8 MB RAM/PCI VGA with 1MB	34,400+T	E05765
486 DX2/66/8 MB RAM/VGA with 256 kB	26,900+T	E05767

Note: Includes 1.44 MB HDD, 101 keyboard, 400 dpi mouse, SVGA mono monitor, MS-DOS 6.22, Windows 3.11.

COMPAQ

Presario 510/486SX2/66/4MB RAM/420 MB HDD/ Modem 9.6kbps	75,000	E05918
Presario 524/486DX2/66/8MB RAM/420 MB HDD/ Modem 9.6kbps	85,000	E05919
Presario 5226/Pentium/100 MHz/8 MB RAM/1GB MB HDD/14"c/modem 19.2kbps/Win 95/Novell Perfect Works	155,000	E05920
Presario 9222/Pentium/100 MHz/8 MB RAM/ 1 GB HDD/Win 95/Novell Perfect Works	175,000	E05921
Presario 9240/Pentium/133 MHz/8 MB HDD/ 1.3 GB HDD/modem 28.8kbps/Win 95 Novell Perfect Works	180,000	E05913
Presario 7212 CDS/Pentium/75MHz/1GB HDD/ Modem 19.2kbps/Win 95/Novell Perfect Works	135,000	E05914
Presario 5222 CDS/Pentium/100 MHz/1 GB HDD/ Modem 19.2 kbps/Win 95/Novell Perfect Works/c	145,000	E05915
Compaq Contura 420C/486DX4/75 MHz/350MB HDD/MS DOS 6/ MS Win/MS Works/	160,000	E05916
Compaq Contura 420 CX/486DX4/4 MB RAM/350 MB HDD/MS DOS 6/ MS Win	190,000	E05917
Compaq Contura 430 C/486 DX4/100 MHz	200,000	E052041
Compaq Contura 430 Cx/486 DX4/100	230,000	E052042

Machines come with MS DOS 6.2, MS Windows 3.1, Tabworks, Media Pilot, CD-ROM drive, 14" SVGA color monitor

Presario 944/486DX4-90/8 MB/535 MB HDD	140,700	E051413
Presario 962/Pentium-60/8 MB/535 MB HDD	174,400	E051414
Presario 972/Pentium-75/8 MB/725 MB HDD	159,400	E051415
Presario 510/486SX-33/4 MB/270 MB HDD	95,000	E051416
Presario 520/486SX2-66/4 MB/420 MB HDD	108,800	E051417
Presario 524/486SX2-66/4 MB/420 MB HDD	122,000	E051418
Presario 742/486DX4-90/8 MB/420 MB HDD	153,300	E051419

Note: Compaq config: 1.44 MB FDD, CD-ROM drive, SoundBlaster card, 2 speakers, 101 keyboard, SVGA color monitor, mouse, MS-DOS 6.2, Win 3.1, Works, MS Works, MSEncarta, and internal fax-modem

Product	Price	RQS No
HCL FRONTLINE (BEANSTALK)		
HPC 4200/486DX2/66/mono VGA/540 MB HDD	48,707	E05751
HPC 4300/486DX2/66/c/420 MB HDD/Fastracc/ MS Works/Red armour/NIIT Training	81,567	E05752
HPC 4400/486DX2/66/c/420 MB HDD/Fastracc/ MSWorks/pack of 10CDs/Bitfax & Bitcom for Win/RedArmour/NIIT Training/BBS subscription for 6 months	98,527	E05753
HPC 4600/486DX2/66/c/Fastracc/MS Works/pack of 20CDs/NIIT Training/BBS for 6 months/Bitcom for win/Bitfax for win	108,597	E05754

Note: c-SVGA color; m-Mono VGA. System config.: 4 MB RAM (4200, 4300), 8MB RAM (4400 & 4600) 1.44 MB FDD, 101 keyboard, MS-Mouse , DOS 6.22, WFW 3.11, Fastracc, MS Works, Red Armour.

HEWLETT-PACKARD

VE 5/75/Pentium-75/8 MB/540 MB HDD)	100,085	E051920
VL3 5/75/Pentium-75/8 MB/840 MB HDD)	113,519	E051921
XM3 5/90/Pentium-90/8 MB/840 MB HDD)	136,113	E051923
VE 4/66/486DX2-66/8 MB/840 MB HDD)	90,925	E051922

Note: All HP machines ship with MS-DOS 6.22, Win For Workgroups 3.11 and HP mouse.

IBM

IBM PC 100/486DX4/100MHz/4 MB RAM/ 540 MB HDD	88,000	E05768
IBM PC 300/Pentium/100 MHZ/16MB RAM/ 850 MB HDD	165,000	E05769

Note: PC100 DOS/Win preloaded; PC300 DOS/Win, OS/2 Warp, Productivity/asset Mgmt Tools

MODI OLIVETTI

PCS40/486DX2/80/4 MB/540 MB HDD/1.44 MB FDD/ DOS/Win	55,600	E051933
PCS50/Pentium/75/8 MB/540 MB HDD/1.44MB FDD/DOS/Win	78,150	E051934
PCS50/Pentium/133/8 MB/540 MB HDD/1.44MB FDD/ DOS/Win	108,000	E052023

TULIP

Tulip Vision Line/486DX2/66/8MB/540MB	83,000	E05774
Tulip Vision Line/486DX4/100/8MB/540MB	91,500	E05775
Tulip Vision Line/WS/Pentium/75/8MB/540MB HDD/ Mouse	103,000	E05776

NOTEBOOKS

APPLE

Mac PowerBook 520/8MB/240MB HDD/ Claris Organizer	143,400	E051277
Mac PowerBook 520c/8MB/240MB HDD/ Claris Organizer	185,200	E051278
Mac PowerBook 540c/8MB/320MB HDD/ Claris Organizer	298,000	E051279
Mac PowerBook 150/4MB/250MB HDD/ Claris Organizer	88,100	E051280

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product	Price	RQS No
CHAMPION		
486 DX2/66/4 MB RAM/200 MB HDD/1.44 MB FDD/ VGA mono/MS DOS 6.22/Win 3.1	55,000+T	E05913
GVC		
GVC 486DX4/4MB RAM/810MB HDD/1.44 MB FDD/ 9.5" TFT LCD Display/Trackball mouse/DOS/ Windows	175,000+T	E05914
GVC 586/P90/8MB RAM/810 MB HDD/ 1.44 MB FDD/Quad-Speed CD-ROM/Touch Pad mouse/Windows 95/30CDs	290,000	E05915
GVC 586/P90/8MB RAM/810 MB HDD/ 1.44 MB FDD/Quad-Speed CD-ROM Drive/ Windows 95/30 CDs	320,000	E05916
HEWLETT-PACKARD		
OmniBook 600/486DX2-50/4 MB/170 MB HDD	138,190	E051924
OmniBook 600/486DX2-50/8 MB/260 MB HDD	185,755	E051927
OmniBook 4000/486DX4-100/8 MB/340 MB HDD	176,350	E051928
OmniBook 4000/486DX4-100/8 MB/810 MB HDD	259,400	E051929
OmniBook 5000/Pentium-90/8 MB/1200 MB HDD	434,720	E051930
OmniBook 5000/Pentium-90/32 MB/1200 MB HDD	530,980	E051931

Note: All HP notebooks ship with MS-DOS 6.22 and Win for Workgroups 3.11.

INNOVACE		
HB 300/486DX4/100/4 MB/540MB HDD/1.44 MB FDD	115,000	E05882
HB 600/Pentium/100/8MB/540 MB HDD/1.44 MB FDD	175,000	E05883
HB 370/486DX4/100/4MB/540MB HDD/CD-ROM	155,000	E05884
HB 770/Pentium/100/8MB RAM/540 MB HDD/CD-ROM	235,000	E05885

Note: All InnovACE notebooks come with a built-in pointing device joystick, 2 Type II/I Type III PCMCIA slots, inbuilt sound cards, speakers, microphone, 1 MB VRAM.

MAGICBOOK		
MB 5 Plus/486DX2/66/4MB RAM/1.44 MB FDD/ 540 MB HDD/84 keys	1,15,000	E05770
MB 7/Pentium/90/540 MB HDD/1.44 MB FDD/ 84 keys	2,10,000	E05771
MB 8/486 DX/4 MB RAM/1.44 MB FDD/84 keys	1,85,000	E05772
MB 8 Plus/Pentium/90/8 MB RAM/540 MB HDD/ 1.44 MB FDD/84 keys	2,80,000	E05773
MODI OLIVETTI		
Echos48CP/486DX4-100/8MB/540/1.44 MB FDD/ Dos/Win	198,200	E05778
Echos44C/486DX2/4MB/350/1.44 MB FDD/ Dos/Win	129,200	E052021
Echos42/486SX/25/4MB/120/Dos/Win/1.44 MB FDD/ Dos/Win	87,200	E052022
OCTIVA		
Octiva/486DX4/100/340 MB HDD/4 MB RAM	115,000	E05886
Octiva/486DX4/100/510MB HDD/8MB RAM	129,000	E05887
Octiva/Pentium/100/510MB HDD/8MB RAM	169,000	E05888
Octiva/Pentium/100/510MB HDD/8MB RAM	199,000	E05889

Prices Supplied By:

- **Apple:** Odin Computers, A-16, Aruna Asaf Ali Marg, Qutab Institutional Area, Delhi 110067. Tel: 11-6856701. Fax: 11-6863306.
- **AT&T**: Crompton Greaves, 8-E Rani Jhansi Road, Jhandewala Estate, Delhi 110055. Tel: 11-3558237, 3558238. Fax: 11-7533038.
- **Champion Computers**: 306, Eros Apartments, 56, Nehru Place, New Delhi 110019 Tel: 11-6426280, 6214751, 6404203. Fax: 11-6479669.
- **Compaq**: Tangerine, 307 Ansal Chambers, Bhikaji Cama Place, New Delhi 110065.
- **Genius Primax & GVC:** Vertex Infotech, D6, Qutab Hotel, Qutab Institutional Area,New Delhi 110016. Tel: 660060, 664194 Fax: 11-6116769, 6467...
- **Goldstar:** Aditya Promoters, 4428, Ganesh Bazaar, Cloth Market, New Delhi 110006. Tel: 11-2511850, 2514079 **Fax**: 113261456.
- **HCL Frontline,** M-41, Greater Kailash-II Market, New Delhi 110048. Tel: 6423503, 6424779.
- **Hewlett-Packard**, 24 Paharpur Business Centre, Nehru Place, New Delhi 110019. Tel: 11-6472311, 6472328. Fax: 11-6461117. **InnovACE:** Samtech Computers, 10A/27, East Patel Nagar, New Delhi 110008. Tel: 11-5734293, 5734294, 5734293.
- **Logitech/APC:** Vintron, F-34 Okhla Industrial Area, Phase 1, New Delhi 110020. Tel: 011-6814520, 6813680, 6811980. Fax: 011-6810460.
- **Magicbook:** Akash Electronics & Software, 14 Chirag Enclave, New Delhi 110048. Tel: 011-6416003, 6416005, 6416007, 6224601. Fax: 011-6...
- **Modi Olivetti**, D-4, Okhla Phase 1, New Delhi 110020. Tel: 11-68...6813292.
- **Motorola Information Systems**, 108, Gavipuram Guttahlli, Off Bull Temple Road, Bangalore 560019. Tel: 80-6612973, 6612974. Fax: 80-6612977.
- **Multitech Computers**, C-71, Anand Niketan, New Delhi 110021. Tel: ...6872396.
- **Nomus Comm Systems**, S-19, National Plaza, RC Dutt Road, Baroda. Tel: 265-327734, 327738. Fax: 265-333156.
- **Octiva:** ABI Overseas, B-2, Bhandari House, 91 Nehru Place, New Delhi. Tel: 11-6432653, 6228514. Fax: 11-6448917.
- **TVS Electronics**, 10-B Phase I, Peenya Industrial Area, Bangalore 560... 80-8395000. Fax: 80-8396334
- **Aegis:** TVSE, Bangalore
- **TeamEngineers**, 2-2-647/227/C, CE Colony, New Nallakunta, Hyderabad... Tel: 40-7614412. Fax: 40-7601728.
- **TISL**, TISL Tower, Golden Enclave, Airport Road, Bangalore 560017. ... 5262355, 5267117.
- **Tulip Computers**, V-13, Green Park Extn, New Delhi 110016. Tel: ...
- **Aegis, TVS Electronics**, 10-B Phase I, Peenya Industrial Area, Bangalore 560058. Tel: 80-8395000. Fax: 80-8396334.
- **US Robotics:** Microsense Computers, #1East Of Kailash, New Delhi... Tel: 6410134, 6470619.
- **Wipro-Epson**: Wipro Infotech, 88 MG Road, Bangalore 560001. Tel: ... Fax: 80-2270378.
- **Epson:** Reddington, SPL Gundy House, 95 Mount Road, Madras 600006. Tel: 2353313. Fax: 44-2352790.
- **ZyXel**: XON Communications, 19 Casa Major Road, Madras 600008. Tel: 8260124, 82582336. Fax: 44-8283226.

Attention: While all prices were current at the time of going to press, you are advised to reconfirm them with the vendors before placing orders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Do Business Professionals need to learn programming ?

...s a matter of selecting options and filling ...e blanks, Visual DBASE 5.5 Experts can ...e Forms, Tables, Reports and Labels easily ...ut.

...up with writing X base code?

...e components visually and see the results ...ject oriented Visual dBase code, Visual ...Way-Tools give developers the power to ...e quickly from prototype to production. ...Visual inheritance improves the ...istency and reduces the maintenance.

.../Server?

...dBASE 5.5 client/server version can ...ect to the most popular database servers ...ive SQL drivers, using the same user ...face and applications.

...d to buy dBASE to run ...ication ?

...your application! Deploy it! Distribute it! ...plications don't need Visual dBASE to ...with it!

...ied about Windows 95 ...ort ?

...n create database applications that run ...Windows 3.1 and Windows 95. Visual ...automatically senses the environment ...sts itself. Use long file names under Windows 95 for easier file management.

The Visual dBASE family of products

Visual dBASE -- Create standalone and networked applications for your own use.
Visual dBASE Compiler -- Deploy your applications to other users royalty-free.
Visual dBASE Client / Server -- Includes Visual dBASE, Visual dBASE Compiler. Local InterBase® Server, native SQL drivers to connect to popular databases, plus a Data Pump Expert.

The Binary Advantage

We are an organisation which is over 10 years old. Amongst the top 100 IT companies in India, we have over 200 people working out of a network of 10 offices, including one in the US, and a 100% software EOU near Delhi, to execute large business application projects using RDBMS and GUI development tools. We have executed several large projects like East-West Airlines, Minda Industries Limited, ICI, UNICEF, Nirula's, CRY in the recent past.

Binary Semantics is the single largest source for ***Microsoft, Lotus, Borland, SCO, Autodesk, Novell, Oracle, Sybase*** and many more software packages. With our vast experience and technical expertise we offer integrated solutions based on these products. We have recently connected over 400 branches of Corporation Bank on e-mail. Similarily we have connected Sandoz, Boots and other large organisations. We also train the end users to effectively use these products.

We are the largest provider of AutoDesk products in the country. Our CAD / CAM Division has strategic alliances for CADPipe, a plant design software for process industries from Orange systems, USA, electrical control panel design software called promise from ECT Inc., USA, and CrystalEyes from StereoGraphics, USA. We offer expertise with dedicated manpower for handholding and troubleshooting CAD / CAM software.

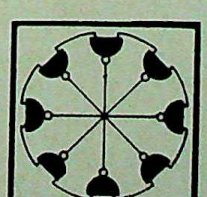
With the immense popularity in multimedia products, we have added a large number of CD-ROM titles for Games, Education, CBTs, to our range.

So the next time you think software, think Binary, you're in safe hands.

Visual dBase 5.5	***Rs. 12,500/-***
Visual dBase 5.5 *(competitive upgrade)*	***Rs. 7,000/-***
Visual dBase 5.5 *(competitive upgrade with mouse)*	***Rs. 8,000/-***
Visual dBase 5.5 *(with Windows for Workgroups)*	***Rs. 15,500/-***
Visual dBase 5.5 *(with Windows 95 upgrade)*	***Rs. 15,500/-***
Visual dBase 5.5 *(with Windows 95)*	***Rs. 16,950/-***

...STEMS is the Country Distributor of Borland products.
...Authorised Reseller for Borland products.

...e colourful Software Finder covering ...ds of products from round the world ...de to:



BINARY SEMANTICS LIMITED

...RPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, ***TEL:*** 91-11-579 5615, 579 8069, 579 8078, 579 8084, ***FAX:*** 91-11-579 9406
...ES BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, ***TEL:*** 91-080-221 5785, 224 0222, 224 1222, 224 3283, ***FAX:*** 91-080-221 ...45-46 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, ***TEL:*** 91-022-621 0867, 628 6937, 670 5763, ...1-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, ***TEL:*** 91-033-473 3109, 473 2101, ***FAX:*** 91-033-473 0687; ***CHANDIGARH:*** 14, HORIZON ...ERCIAL, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, ***TEL:*** 91-0172-706722, ***FAX:*** 091-0172-706043; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY, ...-500026. ***TEL:*** 91-040-773 0399, ***FAX:*** 091-040-773 2811; ***PUNE:*** AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE - ...1-0212-44 8063, 43 2352, ***FAX:*** 91-0212-47 7829; ***MADRAS:*** 675, ANNA SALAI, 1000 LIGHTS, MADRAS - 600 006, ***TEL:*** 91-044-852 4438, ***FAX:*** 91-044-852 4112

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PICK OF THE MONTH

A compilation of positions advertised between 19th March, 1996 and 3rd April, 1996 in various Newspapers

Job, Company & Location	Ednl Qlfns, Experience	Write to :
INTERNATIONAL		
PROJECTS LEADERS RAMSOFT TECHNOLOGIES PVT. LTD. SINGAPORE, SWITZERLAND, U K	WINDOWS, VISUAL C++, UNIX-NETWORKING, ORACLE/FRON 2 YEARS	4/1, 22ND CROSS, 8TH, MAIN 3RD [illegible] JAYANAGAR BANGALORE 560011 [illegible] HERALD (BANGALORE) 19/3/96]
SOFTWARE ENGINEERS HINDITRON INFORMATICS LTD. USA	10 & POWERBUILDER 4.0,VMS,COBOL,C++/ VIS 2 YEARS	MR. KRISHNA KUMAR, 63-B, SDF-II, [illegible] ANDHERI, EAST MUMBAI 400096 [DECCAN [illegible] (BANGALORE) 19/3/96]
SR. SOFTWARE ENGINEERS POLAROID CORPORATION, USA	B.TECH./M.TECH., 5-10 YEARS	DR. ANISH PURI,DIRECTOR, 565, TECH[illegible] SQUARE-6, CAMBRIDGE MA 2139 USA TIMES INDIA DELHI 28/3/96
SOFTWARE ENGINEER HCL CONSULTING AUSTRALIA, NEW ZEALAND, USA, CANADA,	AS/400,OS/400,CL/400,SYNON 2E, OBSYDIAN, AS/SET, 2 YEARS	HCL J-16, ANNA NAGAR EAST MADRAS600[illegible] HINDU DELHI 3/4/96
COMPUTER PROGRAMMER HERFY FOOD SERVICES CO. LTD, SAUDI ARABIA	BACHELOR DEGREE, 7 YEARS	GENERAL MANAGER, P.O.BOX NO.86958, [illegible] 11632 TIMES OF INDIA, DELHI 3/4/96
NATIONAL		
SOFTWARE PROFESSIONALS DEUTSCHE SOFTWARE (INDIA) PVT. LTD., BANGALORE	B.E./MCA/M.TECH DEGREE 2-5 YEARS	HEAD-PERSONNEL VIII FLOOR, RAHEJA [illegible] 26-27, M G ROAD BANGALORE 560001 [DE[illegible] HERALD BANGALORE 19/3/96]
ASST.MGR./SR. ENGINEER-MAINTENANCE VADILAL INDUSTRIES LTD. AHMEDABAD	MECHANICAL/ELECTRICAL ENGINEER, DEGREE OR DIPLOMA 3-6 YEARS	HRD DEPARTMENT 1ST FLOOR, VRUJ[illegible] COMPLEX, AHMEDABAD-380052 [TIMES OF I[illegible] (DELHI) 20/3/96]
SOFTWARE PROFESSIONALS-IN COBOL TATA UNISYS LTD. MUMBAI, BANGALORE	B.E./M.E./M.SC./MCA/MBA 2 YEARS	SR. HUMAN RESOURCES MGR SEEPZ, A[illegible] EAST, MUMBAI-400096 [TIMES OF INDIA [illegible] 21/3/96]
COMPUTER PROFESSIONALS TATA CONSULTANCY SERVICES MUMBAI, PUNE, MADRAS, DELHI	B.E./M.E./M.TECH./COMPUTER SCIENCE, MCA 3-5 YEARS	CHIEF CONSULTANTS 6, NEW MARINE LINE[illegible] VITHALDAS THACKERSEY MARG MUMBAI-[illegible] [TIMES OF INDIA , (BOMBAY) 21/3/96]
SYSTEMS PROFESSIONALS COLGATE-PALMOLIVE (INDIA) LTD. BOMBAY	B.E./B.TECH.(COMPUTER), MCA/MBA (SYSTEMS) 2-3 YEARS	APEEJAY HOUSE 3, DINSHAW VACHA[illegible] CHURCHGATE BOMBAY 400020 [TIMES OF [illegible] BOMBAY 28/3/96]
SOFTWARE ENGINEER VERIFONE INDIA PVT LTD BANGALORE	B.E/B.TECH./M.TECH./MCA, 1-6 YEARS	HUMAN RESOURCES, INDIAN EXPRESS [illegible] DR. B.R.AMBEDKAR ROAD, BANGALORE [illegible] DECCAN CHRONICLE BANGALORE 28/3/96
COMPUTER PROFESSIONALS TATA CONSULTANCY SERVICES SECUNDERABAD	M.E./M.TECH.B.E./B.TECH./MCA ENGINEERING GRADUATE 2 YEARS	1-2-10, 1ST FLR, COROMANDE HOU[illegible] PATEL ROAD, SECUNDERABAD-500003. [illegible] HERALD BANGALORE 30/3/96
SOFTWARE PROFESSIONALS SRIVEN COMPUTER SOLUTIONS MADRAS, BANGALORE, HYDERABAD	ENGINEERING GRADUATE, 2-3 YEARS	THE G.MGR-HRD, 508, HUDA, MAITR[illegible] HYDERABAD-500003 HINDU DELHI, 30/3/96
COMPUTER DESIGNER PROGRAMMER KAMTE AGENCIES & SERVICES PVT. LTD., BOMBAY	3 YEARS	23, ABUBAKAR MANSION NEAR REGAL [illegible] SHAHID BHAGAT SINGH MARG BOMBAY [illegible] TIMES OF INDIA BOMBAY 31/3/96
NT SOFTWARE PROFESSIONALS INTER COPE (INDIA) PVT LTD BANGALORE	C OR C++ ON UNIX, OS/2, 3 TO 8 YEARS	INTER COPE (INDIA). 41, 1ST CROSS, DOM[illegible] STAGE, BANGALORE-560071, DECCAN [illegible] BANGALORE 2/4/96
SR.MANAGER-ENGG DEVP. "DSP SOFTWARE", PHILIPS INDIA LTD. MUMBAI	BACHELOR/MASTER'S DEGREE IN ENGINEERING, 5-10 YEARS	GENERAL MANAGER-CORP.HR SHIV S[illegible] ESTATE, BLOCK A, DR. ANNIE BESA[illegible] WORLI, MUMBAI-400018 HINDU DELHI 2[illegible]
SOFTWARE PROFESSIONALS AMERICAN EXPRESS BANK LTD, MADRAS	UNIX,RDBMS,CASE TOOLS, 3 TO 10 YEARS	AASI BLDG, 3RD FLOOR, 187, MOUN[illegible] MADRAS-600006. THE HINDU DELHI 34/96
SOFTWARE PROFESSIONALS LIVING OBJECTS INC. DELHI, BOMBAY, BANGALORE, MADRAS, CALCUTTA	DEGREE IN COMPUTER SCIENCE, 3 YEARS	MR. C BASU E/51, GREATER KAILA[illegible] DELHI110048 THE HINDU DELHI 34/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NEWS

SOFTWARE

ke CDs with rel Creator 2

orel CD Creator 2 is a 32-bit CD authoring and creation applica- r Windows 95 and Win-

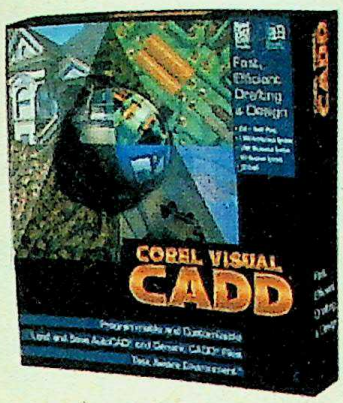
NT. It lets users create audio, CDPlus, mixed , VideoCD and PhotoCD Prec disks, as well as ase inserts. It also sup- various disk formats and es new features such k Wizard and File Or- g Editor, as well as en- older features such as s for Data, Jewel Case dio Tracks. It is priced 1,000.

er Query Service #E0501

32-bit CAD ware

rel (http://www.- corel.com) in associa- on with Numera Soft-

ware have released Visual CADD, a professional design



and drafting app for novice and experienced designers. This native Windows NT and Windows 95 software supports OLE 2, multiple document interface, and .GCD, .DWG and .DXF files. Its productivity features include multiple viewports and matching/tracking. It can be customized using Visual Basic, C++ or Delphi, and needs a 486 or higher with 8 MB RAM and 20 MB free disk space. It is priced at Rs 19,050.

Reader Query Service #E0502

Corel's HTML Authoring Toolkit

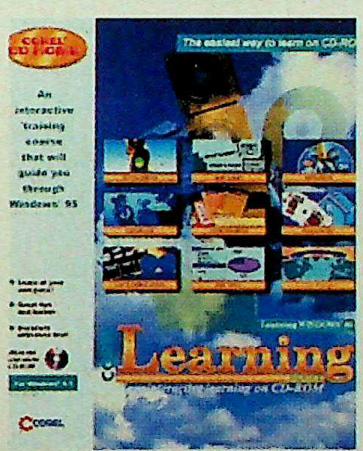
Corel has released the beta version of Corel WEB.DESIGNER; the first complete HTML authoring toolkit. This toolkit will simplify Web page creation and give users access to Net-ready clipart. It also supports Java applets, and has transparent conversion of .BMP files to .GIF or .JPEG formats. Other modules are WEB.Transit to convert existing documents into HTML and supports most word processor formats, and WEB.Gallery with more than 8000 royalty-free, custom images for the Internet. The toolkit can be used with Windows 3.x, WindowsNT and Windows95, and is expected to cost $ 149. WEB.Gallery is available in India for Rs 4,550.

SVAM SOFTWARE LTD
NEW DELHI 110001
TEL: 11-3320224, 3731844
FAX: 11-3723266

Reader Query Service #E0503

Learn To Use CorelDraw

Corel and JIT Learning Products have teamed up to present multimedia training apps for CorelDraw Ver 3 through 6, as well as Windows 95. The Learning CorelDraw series has



150 modules that use practical projects to teach. These include logos, business stationery and brochures. Learning Windows95 covers installing through getting connected, and is designed for beginners, intermediate users, and those upgrading from DOS, Mac and Windows 3.x. These CD-ROMs cost $ 24.95.

COREL CORPORATION,
CANADA K1Z 8R7
TEL: 613-628-8200
FAX: 613-761-9176

Reader Query Service #E0504

Boston Management's PowerBuilder CBT to Sell In US

The PowerBuilder CBT developed by Boston Management Consultants will be marketed by ViaGrafix in the US under their own label, because a "Made In

India" tag would make the product less "marketable" The CBT runs on a 386 PC with 45 MB free disk space and Windows 3.1, and costs $400.

BOSTON MANAGEMENT CONSULTANTS,
MUMBAI 400055
TEL: 22-6103075, 6121183
FAX: 22-6105685

Reader Query Service #E0505

Qplace For Placement Agencies

Strategic Management's *Qplace* is a menu-driven, DOS-based software for placement agencies. Resumes can be shortlisted in a few minutes or sent via e-mail. Candidates' status including who have been sent for interviews, the location, and positions can be tracked by date and their present status. *Qplace* runs on a PC/XT, with 640kB RAM and 20MB disk space, and is

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

available for an introductory price of Rs 4,550.
STRATEGIC MANAGEMENT CONSULTANTS,
NEW DELHI 110066,
TEL: 11-6116536
FAX: 11-6874392

Reader Query Service #E0505

TOEFL Tutors From Britain

Academy Marketing has launched *Multimedia TOEFL*, Spell*Write* and FutureLock for Windows 3.1. *Multimedia TOEFL* is among the first multimedia tutors for the Test Of English as a Foreign Language (TOEFL). It has two modes—Learn and Mock Test. Learn contains standard TOEFL questions with answers and explanations, and Mock Test lets users simulate an actual examination. *Multimedia TOEFL* is available at £7 each in lots of 5,000.

Spell*Write*, an add-on for Windows Write, includes tools such as a spellchecker, word counter, bubble help and toolbars. FutureLock for Windows is a security system that prevents unauthorized access. It allows only authorized users to change system settings, delete files, install new software, and prevents users wasting time on non-core apps when working. Spell*Write* costs £25 (including VAT) and additional licenses for £12 (including VAT). FutureLock is available for £30, postage and packing extra.
ACADEMY MARKETING,
SUNDERLAND SR1 1DX, UK
TEL: +44-191-5141778
FAX: +44-191-510-2203

Reader Query Service #E0506

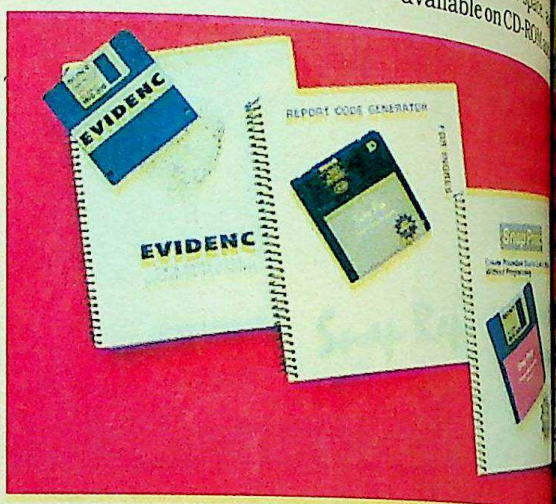
SQA's Integrated C/S Test Suite

SQA Inc's SQA Suite claims to be the only seamlessly integrated test tool suite for enterprise-level Windows-based client/server apps. It uses Object Testing to test C/S apps created in various Windows-based environments. Tests can be created rapidly and automatically, and load, stress and multi-user are also possible to ensure that C/S apps are production-ready before deployment. The integrated and open network test repository and advanced test management and measurement tools help quantify results, manage defects and coordinate work. It is available for Rs 119,000.
INTECOS-SET, NEW DELHI 110065
TEL: 11-6432335, 6219792
FAX: 11-6218974, 6440866
E-MAIL:QAII.INTECOS@AXCESS.NET.IN

Reader Query Service #E0507

Supersoft's RDBMS Code Generators

Supersoft's Snap Deal UL/30 comprises Snap Rep, Snap Proc and Evidenc database code generators. Snap Rep is available for RW (Ingres) and C-ESQL (Oracle and Ingres). Snap Proc's visual interface helps create complex procedures for table updates and inserts, and is available as C-ESQL (Ingres Oracle) and PL/SQL (Oracle). Evidenc is a data entry code generator for Ingres OSQs, provides source code for online data entry without programming and allows incorporation of user-defined code boxes. Snap Rep and Evidenc are priced at Rs 20,000 and Snap Proc at Rs 18,000. A training offer at Rs 3,000 per product for a day, on-site, is valid till June 30, 1996.
SUPERSOFT, AHMEDABAD 380014
TEL: 79-4007743
FAX: 79-468201



Reader Query Service #E0508

Thames Markets Page Plus

Thames Technologies is marketing Serif's Page Plus 3.0, a full-featured, Windows publishing solution. It has separate modules for image editing (Photo Plus), drawing (Draw Plus), table editing (Table P... face manipulation (... a text editor to edit ... side layout (Write P... 120 fonts and 500 ... ages. Page Plus req... 34 MB of disk spac... available on CD-RO...

kettes in the same ... introductory price is Rs ...
THAMES TECHNOLOGIES ...
NEW DELHI 110020
TEL: 11-6839876, 6835...

Reader Query Service #...

Borland C++ ... With Java Sup...

Borland C++ ... ships with ... port and tools ... include the JAVA ... ment Kit, GUI Debug... Compiler. Borland C++ ... includes advanced ... such as namespaces, ... words, and a comp... library from Rogue W... programs can also be ... for 16- or 32-bit oper... tems through Targe... and the C++ IDE can ... tomized with Object ... ing. The C++ 5 Sup... costs Rs 39,950, the J... costs Rs 19,950. The ... ment Suite costs Rs ... and C++ 5 with JAVA ... costs 19,950.
WIPRO INFOTECH GROUP SOFTWARE PRODUCTS
BANGALORE 560001
TEL: 80-2233534
FAX: 80-2218590

Reader Query Service #...

CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya

Digitized by Arya Samaj Foundation Chennai and eGangotri

SCO

The world's most popular UNIX

The leading UNIX servers for business critical computing

e leading UNIX servers for business critical
puting world wide, SCO Open Server
ems outsold Sun, IBM , HP and Novell in
ser UNIX System server and host unit
ments combined in 1994. (Sources IDC 12/
lysis).

e Leading Business Critical
rver

O Open Server is today's leading UNIX
er operating system for Intel processor-
d platforms. SCO Open Server systems run
al day-to-day business operations for
nizations such as BMW, the NASDAQ
k Market, Taco Bell, and government
cies, as well as small to medium-size
nesses of every kind. Businesses use SCO
en Server systems to simplify and speed
ness operations better understanding and
nd to their customer's needs, and, achieve
petitive advantage.

O Open Server systems excel at running
base; transaction-based DBMS and business
ications, communications gateways, and
and messaging servers in both host and
server environments.

gned expressly for business critical
puting, SCO Open Server systems deliver
today's organizations are seeking,
tional value and price-performance.
ssible networking with existing LANs and
easy integration with Windows desktops,
Internet access and services, simplified

RE is the Country Distributor of SCO products.
is the Premier Reseller for SCO products.

***a free colourful Software Finder covering
ands of products from round the world
e write to:***

SCO OpenServer

administration and management, and outstanding scalability for long term growth.

Benefits

- SCO Open Server systems deliver the top value for present and future business critical computing.
- Achieve minicomputer levels of reliability and scalability available for today's cost-effective business critical servers.
- Maximize the effectiveness of business servers by utilizing the worlds greatest selection of business critical solutions.
- Integrate networked systems and the Internet into a single efficient environment to access and use information as a competitve advantage.
- Easily integrate Windows systems and leverage users skills without starting all over again.
- Speed and simplify the development, management and maintenance of distributed business critical servers.

The Binary Advantage

We are an organisation which is over 10 years old. Amongst the top 100 IT companies in India, we have over 200 people working out of a network of 10 offices, including one in the US, and a 100% software EOU near Delhi, to execute large business application projects using RDBMS and GUI development tools. We have executed several large projects like East-West Airlines, Minda Industries Limited, ICI, UNICEF, Nirula's, CRY in the recent past.

Binary Semantics is the single largest source for ***Microsoft, Lotus, Borland, SCO, Autodesk, Novell, Oracle, Sybase*** and many more software packages. With our vast experience and technical expertise we offer integrated solutions based on these products. We have recently connected over 400 branches of Corporation Bank on e-mail. Similarily we have connected Sandoz, Boots and other large organisations. We also train the end users to effectively use these products.

We are the largest provider of AutoDesk products in the country. Our CAD / CAM Division has strategic alliances for CADPipe, a plant design software for process industries from Orange systems, USA, electrical control panel design software called promise from ECT Inc., USA, and CrystalEyes from StereoGraphics, USA. We offer expertise with dedicated manpower for handholding and troubleshooting CAD / CAM software.

With the immense popularity in multimedia products, we have added a large number of CD-ROM titles for Games, Education, CBTs, to our range.

So the next time you think software, think Binary, you're in safe hands.

All names are the trademarks of their respective manufacturers

BINARY SEMANTICS LIMITED

CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, ***TEL:*** 91-11-579 5615, 579 8069, 579 8078, 579 8084, ***FAX:*** 91-11-579 9406.
OVERSEAS OFFICE: PENNSYLVANIA STATE, P.O. BOX NO. 483, P.A. - 17001, ***U.S.A. TEL:*** 717-731-8468, ***FAX:*** 717-731-9857
BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, ***TEL:*** 91-080-221 5785, 224 0222, 224 1222, 224 3283, ***FAX:*** 91-080-221
45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, ***TEL:*** 91-022-621 0867, 628 6937, 670 5763,
91-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, ***TEL:*** 91-033-473 3109, 473 2101, ***FAX:*** 91-033-473 0687; ***CHANDIGARH:*** 14, HORIZON
CHAMBERS, S.C.O. 2471-72 (IIND FLOOR), SECTOR 22C, CHANDIGARH, ***TEL:*** 91-0172-706722, ***FAX:*** 091-0172-706043; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY,
ERABAD - 500 026, ***TEL:*** 91-040-773 0399, ***FAX:*** 091-040-773 2811; ***PUNE:*** AQUA BUSINESS CENTRE, "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE -
411 030, ***TEL:*** 91-0212-44 8063, 43 2352, ***FAX:*** 91-0212-47-7829; ***MADRAS:*** 675, ANNA SALAI, 1000 LIGHTS, MADRAS - 600 006, ***TEL:*** 91-044-852 4438, ***FAX:*** 91-044-852 4112

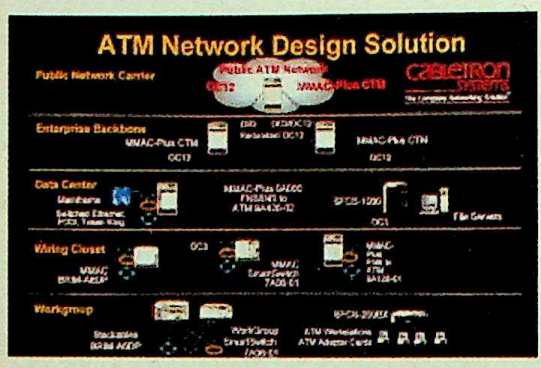
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE

Cabletron Products

Cabletron Systems has launched new networking and ATM products. These include FastNet which caters to small and mid-sized Fast Ethernet



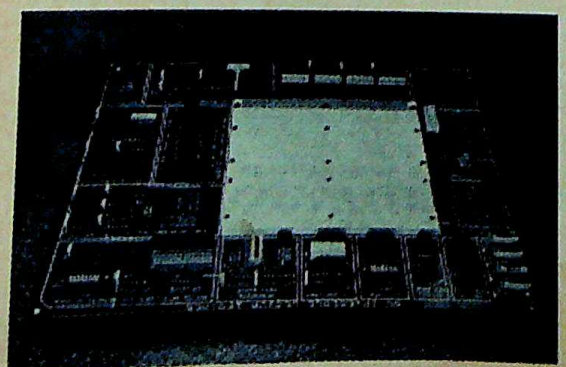
apps. Fast Ethernet switching will also be incorporated into the SmartSwitch product line for high-end switching customers. Cabletron's ATM product line consists of switches, access products, adapters and network management apps. Cabletron also plans to deliver a 75 GBps backplane for its enterprise switching platform.

CABLETRON SYSTEMS PTE LTD, SINGAPORE 0511,
TEL: 65-7755355
FAX: 65-7763382

Reader Query Service #E0511

Scientech's PC Interface Design Trainer

Scientech's Bytronics PC Interface Design Trainer consists of a PC buffer card and a IDT main board. This is a powerful learning tool that provides users with unlimited access to PC interfacing, design, monitoring and control applications. The main board has space for circuit development and provides a wide range of facilities including LED status indicators, wait state generator, port-to-memory DMA, switch-selectable I/O address decoder and a fully buffered PC expansion slot. Interactive courseware, that explores various PC interfacing techniques, is bundled.



SCIENTECH SCIENTIFIC SALES, INDORE 452004
TEL: 731-540454
FAX: 731-491641

Reader Query Service #E0512

Apple's Internet Servers In India

Apple Computers new servers, the 7250/120 and 8550/132, are the first to feature the PCI bus, PowerPC chips and System 7.5.3. Custom software solutions for businesses, schools, and publishers are available. These include the Application Server to build e-mail or database servers, the Internet Server to publish HTML and other documents on the Web, and the AppleShare Server, a file and print server software. The the three solutions will cost Rs 322,000 on the 7250/120 and Rs 469,000 on the 8550/132.

APPLE COMPUTER INTERNATIONAL LTD,
NEW DELHI 110003,
TEL: 11-4363030
FAX: 11-4362939

Reader Query Service #E0513

Educational Computing For Tots

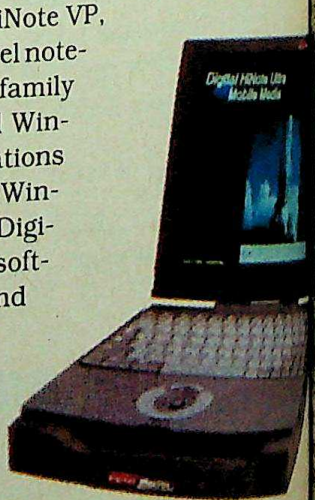
Moon Computer Manufacturing in association with Video Technology has launched in India educational computers that speak. The eight lightweight models, covering three to 20 year olds, are powered by 6V batteries or from the mains. The cartridge-based computers can be used as educational aids for subjects ranging from letter recognition for two-year-olds to computer programming and typing for 19 somethings.

MOON COMPUTER MANUFACTURING INDUSTRY,
MUMBAI 400001,
TEL: 22-2653390 (6 LINES)
FAX: 22-2651369

Reader Query Service #E0514

Digital's Pentium Notebooks

Digital Equipment has now introduced network-ready, Pentium 100 MHz and 133 Mhz HiNote notebooks. These are available in a wide range from the HiNote Ultra II for maximum portability to the HiNote VP, a modular entry-level notebook. The HiNote family includes integrated Windows NT configurations and each HiNote is Windows NT-certified. Digital ClientWORKS software is standard, and both the Ultra II and VP have a port replicator with an optional Ethernet interface.



DIGITAL EQUIPMENT (INDIA) LTD,
BANGALORE 560002
TEL: 80-3374785
FAX: 80-3374601

Reader Query Service #E0515

Network With HP 100VG Hubs

Hewlett-Packard 100VG Anyt... ucts include AdvanceStack 10... 14, AdvanceStack ... Hub-7E and the ... vanceStack 100VG ... Both the Hub14 and ... 7M have a port co... as redundant uplink ... link.

The AdvanceStack ... Hub-14 supports ... 802.12, has 12 fixed ... downlink ports and a ... lar port for slide-in U... or FO transceivers. It ... 112,000. The Advan... 100VG Hub-7E is ... for small workgroups ... need high-speed co... It provides six RJ45 p... costs Rs 51,6... AdvanceStack 10... 7M's six ports allow ... plug in 100VG tra... for UTP, STP or FO c... ity.

Slide-in 100VG t... ers provide UTP, S... connectivity. The A... Stack SNMP/Bridge ... provides 10/100VG ...

CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya

Digitized by Arya Samaj Foundation Chennai and eGangotri

SNMP management capability. The transceiver and bridge module cost Rs 00 and Rs 76,000 respectively. The hubs come with a -year, on-site limited lifetime warranty.

Reader Query Service #E0516

's Pentium o Vectra PCs

P has introduced the Vectra XU 6/180, XU 6/200 and VT 6/200 using the Pentium Pro. Vectra XU series are designed for 32-bit environments, with an additional ZIF socket to accommodate a second processor to boost performance under Windows NT. They are expandable and LAN interface cards are bundled. The XU 6/180 costs Rs 000 and XU 6/200 Rs 000. The Vectra VT 6/ is a powerful, upgradable system available for Rs 000.

Reader Query Service #E0517

ew HP mniBook

P's 133MHz Pentium OmniBook 5500 is multimedia and wireready. It is available with to 1.3GB hard disk space, L2 burst-synchronous e. 8...64 MB RAM, a 4 infrared port, quad-d CD-ROM drive, 16-bit undBlaster compatible d card with stereo in/ ports, NTSC/PAL com-e output and a MIDI/ ck port, lithium-ion batpreloaded Windows 95 a removable internal P drive. The optional g system supports PCI, comes with a full-length and a full-length ISA/PCI slots, besides ports for parallel, serial, SVGA-out, keyboard, PS/2 mouse, audio and SCSI-2. These notebooks will ship in early May and prices will be announced mid-April.

Reader Query Service #E0518

HP's Network-Ready PCs

The HP Vectra XM Series 4 PC comes in a wide variety of configurations, ranging from 8...16MB RAM with no hard drive, an 840 MB hard drive or a 1.28GB hard drive. Most 8 MB RAM versions come for Rs 97,590...137,352, while 16 MB RAM PCs cost between Rs 149,908...226,640. These PCs can be remotely booted on an Ethernet LAN, through LAN Remote Power. Other management and security features include local and remote Desktop Management Agents for Windows 95, Windows for Workgroups and OS/2 clients, management support for HP Open View, Microsoft SMS and Intel LANDesk Consoles, and storing configuration information and passwords in non-user-erasable EPROMs. The HP Vectra XM Series 4 PC includes a built-in 32-bit bus-master PCI 10Base-T network interface, is preconfigured as a Novell and Microsoft networks client and comes preloaded with drivers for Netware, Windows for Workgroups, Windows 95, Windows NT, Vines, Pathworks and OS/2 Warp.

HEWLETT-PACKARD INDIA LTD,
NEW DELHI 110019
TEL: 11-6472351, 6472328-30, 6472355
FAX: 11-6461117

Reader Query Service #E0519

ADDRESSES

Academy Marketing,
1 John Street,
Sunderland SR1 1DX, UK
Tel: +44-191-5141778
Fax: +44-191-510-2203

Apple Computer International Ltd, Suite #101, The Oberoi, Dr Zakir Hussain Marg, New Delhi 110003,
Tel: 11-4363030
Fax: 11-4362939

Boston Management Consultants, 9/10 Daulat Sagar, Nehru Road, Mumbai 400055
Tel: 22-6103075/6121183
Fax: 22-6105685

Cabletron Systems Pte Ltd, 85 Science Park Drive, #03-03/04, The Cavendish, Singapore 0511,
Tel: 65-7755355
Fax: 65-7763382

Corel Corporation,
1600 Carling Avenue, Ottowa
Canada K1Z 8R7
Tel: 613-628-8200
Fax: 613-761-9176

Digital Equipment (India) Ltd, Digital Park, 92 Industrial Suburb, II Stage Yeshwanthpur, Bangalore 560022
Tel: 80-3374785
Fax: 80-3374601

Hewlett-Packard India Ltd, Paharpur Business Centre, 21 Nehru Place, New Delhi 110019
Tel: 11-6472351, 6472328-30, 6472355
Fax: 11-6461117

Intecos-Set, 7 Community Center, East of Kailash, New Delhi 110065
Tel: 11-6432335, 6219792
Fax: 11-6218974, 6440866
E-mail:qaii.intecos@axcess.net.in

MOON Computer Manufacturing Industry, 24/26 Dalal Street, Cama Building, Ground Floor, Mumbai 400001,
Tel: 22-2653390 (6 Lines)
Fax: 22-2651369

Scientech Scientific Sales, 4 Jati Colony, Indore 452004
Tel: 731-540454
Fax: 731-491641

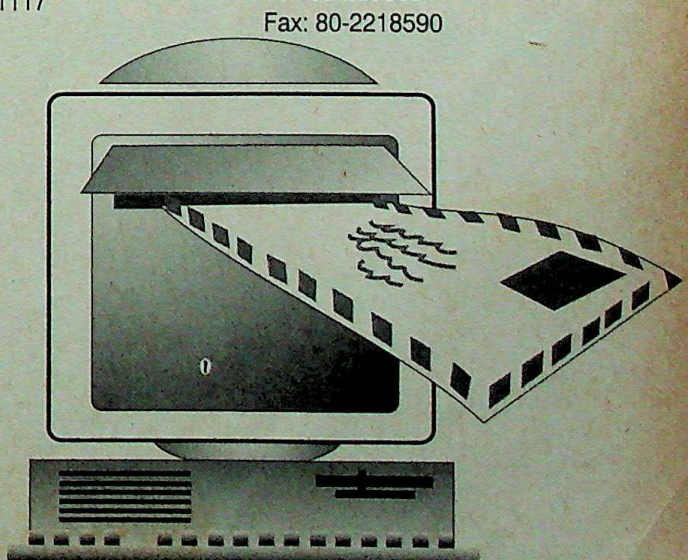
Strategic Management, Consultants, 143, Ansal Chamber-II, 6, Bhikaji Cama Place, New Delhi 110066
Tel: 11-6884872, 6116536
Fax: 11-6874392

SVAM Software, 70 Janpath, Connaught Place, New Delhi 110001
Tel: 11-3320224, 3731844
Fax: 11-3723266

Supersoft, 510 Golden Triangle, Stadium Road, Ahmedabad 380014
Tel: 79-4007743
Fax: 79-468201

Thames Technologies Ltd, C-64/4 Okhla Phase II, New Delhi 110020
Tel: 11-6839876, 6839877, 6848813

Wipro Infotech Group—Software Products Division, 40/A Lavelle Road, Bangalore 560001
Tel: 80-2233534
Fax: 80-2218590



CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Internet

Glimpses on a CD-ROM. Free with PC Quest June

55,000 PCQ Summer 96 CD-ROMs will go out this summer, one with every
of PC Quest's June 1996 issue to subscribers and newsst
With glimpses from the World Wide Web, and the rest of the Inte
For the 280,000 readers who don't yet have an Internet connec
It's going to be like having your Website on the PCs of a hundred thousand

To book your Web-space on the CD
get on the Internet and write to pcq@pob
Or fax Venayak Bhatnagar at 011-6475765, or call your nearest PC Que
at Bombay 6427910, 6450050; Bangalore 5511511, 5568238; Calcutta
Delhi 6411692, 6416315; Madras 459498; Secunderabad
For more details and rates, see p

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

pple And IBM Close To ac OS Deal

fter years of mutual frustration Apple Computer and IBM are finally closing a deal to give IBM access to Apple's crown jewels; a license for the Apple's Macintosh oper- system.

ather than making Mac clones, IBM will reportedly try b-license the software to other system makers. Earlier year, Motorola signed a similar agreement with Apple.

t a time when it is clear that Apple alone will not be able unt much of an offense against Windows, adding IBM as ersee will give the company another powerful company to ote the Mac.

or its part, IBM, whose OS/2 Warp appears to have been run by Windows 95, hopes to use its muscle to spur sales PowerPC chip, which power the Mac.

dustry observers cautioned against presuming a deal minent, as Apple and IBM have tried, and failed, for nearly ears to work out a deal on the Mac OS. Either Apple was luctant to give up sole control of its proprietary software, M was unwilling to fully commit its PowerPC program to ac OS.

tes Hopes SIPC Will Put C in Every Home

desktop without a personal computer is a rare sight these days. Now, Bill Gates and Microsoft are striving to ensure that there is at least one PC in every living as well.

is week, Gates traveled to the Windows Hardware Engi- ng Conference, San Jose where he spoke on what it may to accomplish this goal.

crosoft's strategy is based on Simply Interactive Personal puter (SIPC), a project designed to make PCs as easy to use rsonal stereos, and TVs, and in many cases function as such, in future applications when computer and consumer electronics technologies will merge.

SIPC encompasses a half-dozen or so major programs aimed at hiding the sometimes baffling complexity of today's PCs. Although most of the changes won't be apparent until 1997, Gates hoped to enlist broad support from PC hardware and consumer electronics manufacturers. Key elements of SIPC include *OnNow*, a revision of hardware and software that would let Windows or other operating-system software control a PC's on-off switch; *USB* and *IEEE 1394*, industry acronyms for two sets of standards that will allow all types of home-electronic gadgets to connect with each other; and an alliance with Dolby Labs to bring their popular *Surround Sound* to PCs.

Not everyone is convinced the industry will jump at the chance to follow Microsoft's SIPC path. The company has made similar grand plans in the past that met with rejection, including *Microsoft At Work* that proposed similar interconnectivity between PCs, fax machines, telephones and copiers.

Samsung Pushes For SDRAM

As much as 50 percent of all PCs sold next year will have Synchronous DRAM (SDRAM) memory chipsets.

"SDRAMs will revolutionize the PC memory market much the same way EDO DRAMs did when they replaced Fast Page Mode (FPM) DRAMs. The SDRAM design provides a significant performance increase over EDO DRAM because it offers much higher bandwidth and pin speed. Now that a complete standard has been defined, the rate of adoption for synchronous memory devices in the PC market should explode," said Mark Ellsberry, Samsung's vice president of marketing for memory products.

Ellsberry said Samsung's first family of SDRAM modules include 16, 64, and 256 MB sets built with 16 and 64 megabit chips. The modules fully conform to the upcoming 168-pin JEDEC standard, and range in price from $267 for a 16 MB module to $905 for a 256MB set.

Microsoft Buys Electronic Ink Company

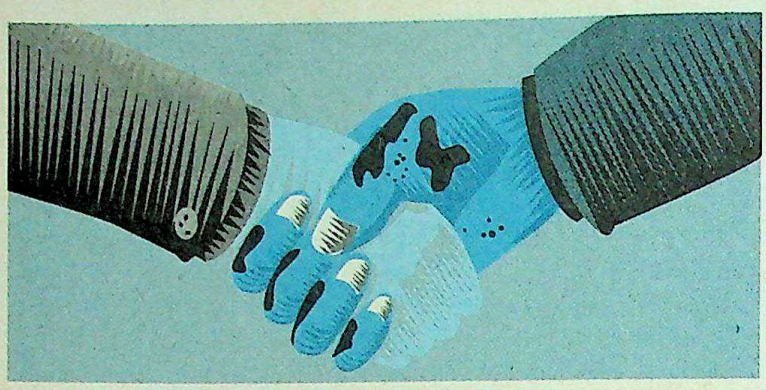
Microsoft has acquired Aha Software, a privately-held company best known for an "electronic ink" program for handheld computers. The deal's financial terms were not disclosed.

Aha's InkWriter was originally developed for AT&T's ill-fated EO tablet-shaped portable computer. The company later redesigned it to work with Sony's MagicLink portable computer.

InkWriter uses an electronic stylus for users to edit their electronic handwriting similar to text editing in a word

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



processing program. When a handwritten word is deleted, the rest of the sentence rearranges itself.

Microsoft will blend Aha's patented technology into its future products. "We see the potential for broad applications of this technology as society becomes increasingly mobile." commented Paul Maritz, group vice president of Microsoft's platforms group.

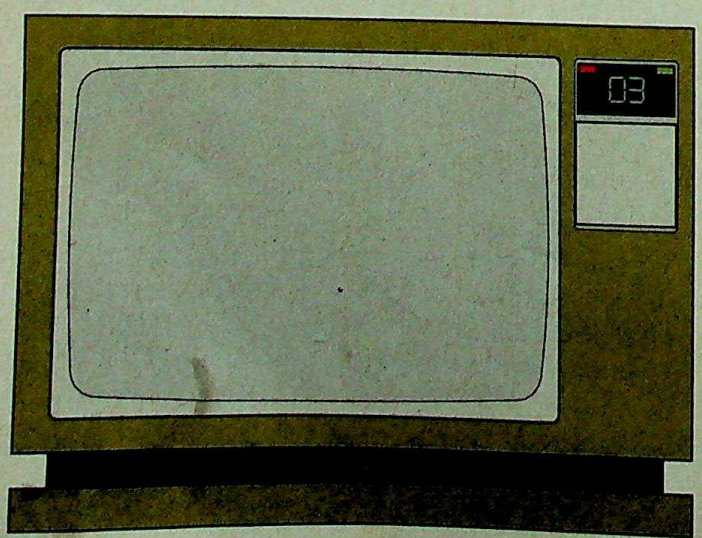
3M 120MB Floppy Gets Award At CeBIT

3M's LM-120 120 MB floppy, shown at the CeBIT Computer Fair in March, has been honored by the German computer magazine *Chip*, as the top new hardware shown at the German trade fair. The LS 120 was co-developed by Compaq and 3M. Users can store up to 120MB of data on a 3.5" LS-120 disk and 3M's drive is backward-compatible with PC 720kB and 1.44MB floppy disk drives .

Interactive TV Ads Debut

Interactive TV took a very small step forward this week when cable TV stations across the United States aired a tourism commercial for Myrtle Beach, South Carolina.

To get more information or sign up for a vacations package, interested viewers don't even have to dial the toll-free ... It will call you! All viewers have to do is hold their ... receivers close to the TV which broadcast the tones ... number on the toll-free number. Subsequently, operators ... viewers' addresses and mail out a vacation information ... age.



The 45-second ad cost $250,000 to produce. So far ... generated more than 5,000 calls, twice the usual ... responses using toll-free numbers. Both the technology ... the idea behind the gimmick are actually pretty old.

The concept makes this applications a cousin to the ... address and telephone books that will dial a telephone ... when holding the credit-card-size unit close to the telephone ... microphone. And for broadcasting the number ... commercial borrows from the technique used for ... captioning and scrolling a message along the bottom ... screen. Instead of inserting text in the broadcast ... sound is inserted.

But the technology is not without its problems. Some ... don't make connections when they are holding the ... more than two feet from the TV. Other viewers can't get ... phone and then to the TV fast enough.

Video-conferencing On Networks

VideoLan Technologies' VL2000 Desktop ... Conferencing and Distribution Network runs full ... NTSC-quality video at 30 fps without compression ... over twisted-pair wiring. It is based on a broadband ... circuit switch, with proprietary technology and PC interface ... card, to transmit video, audio and data, at full duplex ... UTP, so as not to interfere with LAN traffic.

The VL2000's circuit switch can also send video and ... variety of public WAN architectures to other VL2000 networks ... as well as to H.320-compliant stand-alone video-conferencing ... systems. The VL2000 supports T-1, E-1, "switched 56" ... BRI/ISDN. A VL2000 video gateway can connect VL2000 ... and the VL2000 circuit switch can be used to access ... laser disk players and live video feeds. It supports ... users, and will support up to 160 by mid-summer.

Video-conferencing sessions are two- or multi-party ... four sites are shown on the screen during a video-conference.

Mail Package For Psion Palmtops

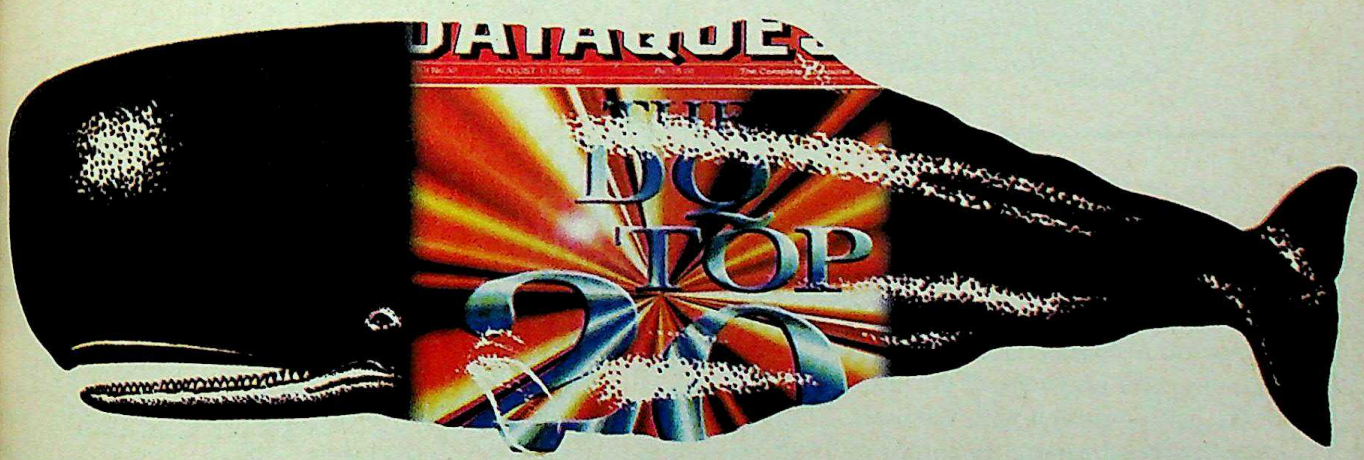
Psion has unveiled an e-mail package for its ... palmtop, the Series 3a computer. An Olivetti ... palmtop is sold in India by Hindustan Office Products ... & Equipment (HOPE), for data capture.

PsiMail, which will be retailed in the US and UK, ... connect to Microsoft Mail and Lotus cc:Mail systems ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE LARGEST SURVEY



The largest annual survey covering over 1,000 companies in India, DQ TOP 20 is here again – spread over **three issues** in July and August 1996. Read by over 1.5 million people in India and abroad, this is the largest survey in more ways than one.

DATAQUEST

PranabDutta 1996

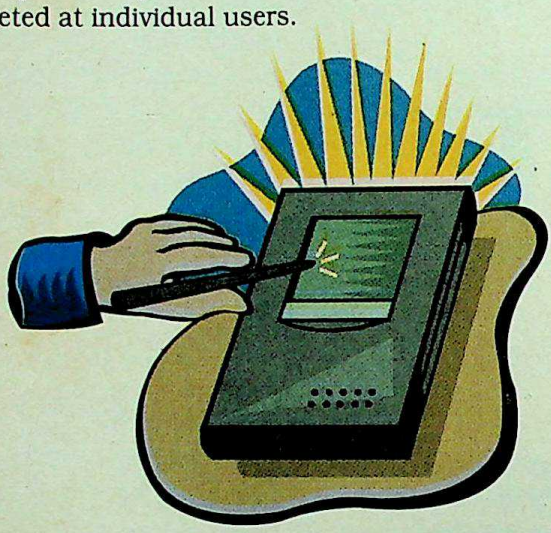
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Psion palmtop PCs and modems. Internet Mail connections for the Psion will be available later this year. PsiMail users can download their mail from their desktops to work on it on the move, using filters, which allow them to connect quickly.

PsiMail consists of two modules: a client app on a Series 3a and gateway software on a network PC. The gateway's MAPI technology lets it communicate with the company's e-mail system and helps it convert e-mail attachments between the Psion palmtop and popular PC apps.

PsiMail runs on a Series 3a with 512kB or more RAM and a modem. The non-Internet Mail version of PsiMail is targeted at corporate buyers, whereas the Internet Mail version will be targeted at individual users.



HP's 820C Printers For SOHO And Windows Users

Hewlett-Packard's (http://www.hp.com) 820Cse color inkjet printer for the SOHO market produce 6.5ppm in mono, 4ppm in color and will sell for under $400.

The 820Cse, is compatible with Windows 3.1 and Windows 95. It has 600-by-600 dpi mono resolution and 600-by-300 dpi color. Data flows direct from the PC to the printhead, thereby increasing print speeds.

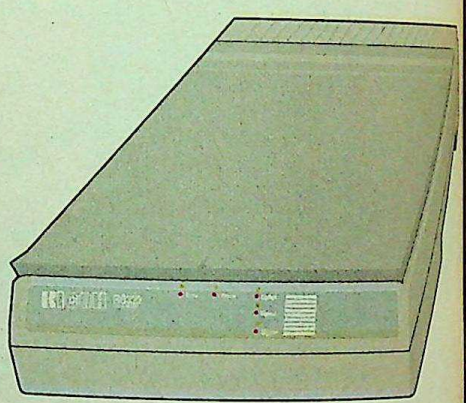
Bundled with each 820Cse is a CD-ROM containing tools, such as Microsoft Publisher. The 820Cse handles different paper sizes and stocks, including envelopes and transparencies. An envelope feeder and support for manual printing and alternate page numbering are also included.

OpticPro With Parallel Port Connection

Plustek USA's OpticPro 4800P flatbed scanner with a parallel port connection, aqs opposed to SCSI adapter or interface card. The 4800P is used with notebook or desktop computers.

The 4800P's features and specifications are respectable: 600dpi resolution (up to 4800 with interpolation), single-pass scanning, 24-bit color, cold-cathode lamp (last longer than normal illumination sources), and one-touch operation with a button that pops open Plustek's Action Manager software when pressed.

The 4800P is scheduled to ship by May 15, and will include a generous software bundle consisting of Plustek's Action Manager (supporting multifunction Fax, Copy, Scan and OCR) and *Recognita OCR* software (to convert scanned text into word processor files). Pricing has not been announced but is expected to be near $400.



Microsoft Intros SQL Server Version 6.5

Microsoft's SQL Server 6.5 (http://www.microsoft.com/sql/) for Windows NT Server is a C/S DBMS, with built-in support for Internet apps, distributed transactions, heterogeneous replication, distributed management tools and dynamic locking. An SQL Server 6.5 license costs $1,999, a single client-access license $149 and a user-access license for intranets and the Internet $2,999.

Dynamic locking lets SQL Server choose the right size lock, whether row, page, table or database, to maximize concurrency and speed. SQL Server Web Assistant provides a wizard-like interface to publish Server data on the Web. It allows the automatic creation of HTML pages or fills HTML templates with Server data, which can be queried using Web browsers.

New fault tolerance and recovery capabilities include

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE MOST ESSENTIAL

The DQ TOP 20 is an essential ingredient of the Indian IT industry — it reaches everybody, everywhere! As an advertiser, you cannot afford to miss being in it.

DATAQUEST

1996

Pranab Dutta

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

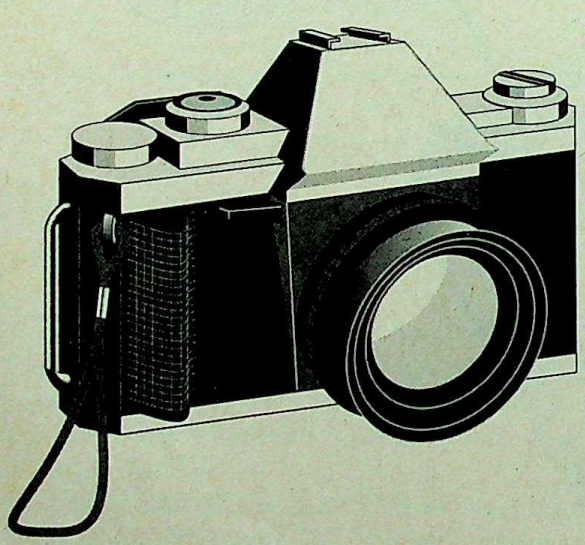
backup and restoration of tables and point-in-time recovery. SQL Server supports Online Recovery Server from Compaq for automatic fallover in the event of a system crash. Its new data pipe capability allows it to collect data from various sources, to create a data warehouse.

Canon's New Point-And-Shoot Digital Camera

Canon Computer's PowerShot 600 is a Windows 95 compatible point-and-shoot digital camera which looks and feels like a 35 mm camera. It uses a 570,000 pixel CCD sensor to produce 24-bit images and can light a scene correctly from 8 inches to 12 feet. The macro mode lets users focus down to 4 inches and text mode captures high-resolution images.

An AA battery holder, a computer docking station to download camera images, a neck strap and TWAIN drivers and editing apps, are bundled. It can also accept voice comments as image attachments and users can select fine, normal, or economy JPEG compression.

Options include a wide angle convertor, a 4MB PCMCIA card and a 170 MB hard disk.



Logicraft's FastCD For Win 95, Windows NT

Logicraft Information System's (http://www.logicraft.com) FastCD Personal Edition, a CD-ROM emulation software product works like a device driver, and allows Windows 95 or Windows NT CD-ROM apps to run without a CD-ROM drive. FastCD will be released in May and will cost $24.95. It supports Windows 95's autorun and other features.

FastCD will allow portable computer users to take CD-ROM apps on the road without a CD-ROM drive. Desktop users can run multiple CD-ROM apps off their hard disks, or users on a network could access multiple CD-ROM apps simultaneously off shared images on a file server or each other's hard d... Users will store each CD-ROM app in a single compressed... their hard drives for easy management.

CD-ROM images are built by caching a disk's dir... appear as virtual CD-ROMs.

Gigabit Data Per Square Inch From IBM

Just two years ago, a 1GB hard drive required a ... number of stacked platters in a single 3.5-inch... IBM announced it has developed the capa... store more than a 1GB of data per square inch on mag... drives using a new technology called **Travelstar**. The...

will be able to store 1.3 billion bits per square inch and... memory capacities ranging from 1.08...2.16GB. IBM sa... begin marketing a line of 2.5-inch Travelstar disk drive... year.

In comparison, most 3.5-inch hard drives can store... 4GB in densities of up to 400 megabytes per square ...

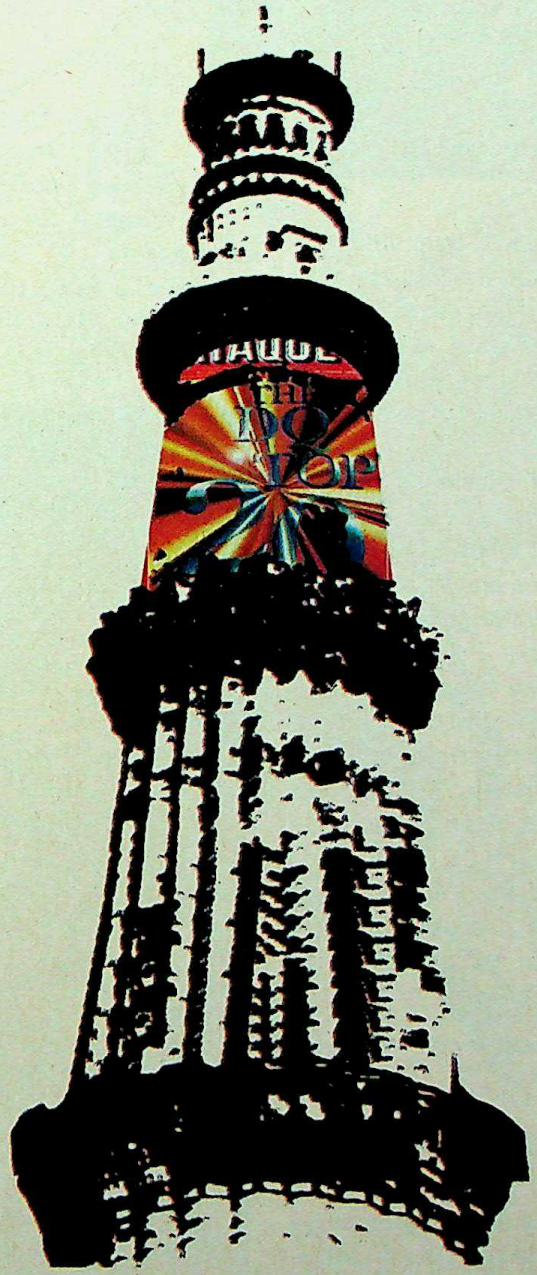
Virtual Moon Ride Not All That Virtual

Wanna go for a ride? ... On the moon? If all goes ac... to the plans detailed this week by Lunacorp, ... ers will be able to take control of one of two ... located on the moon. With the use of images transmitted... from a 360-degree-capable camera mounted atop the ... "drivers" can experience the closest thing to actually ... the moon.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE LONGEST SHELF LIFE



Analyzing every aspect of the industry's performance – from PCs to mainframes, from Windows to value added services, DQ TOP 20 has a one year shelf life.

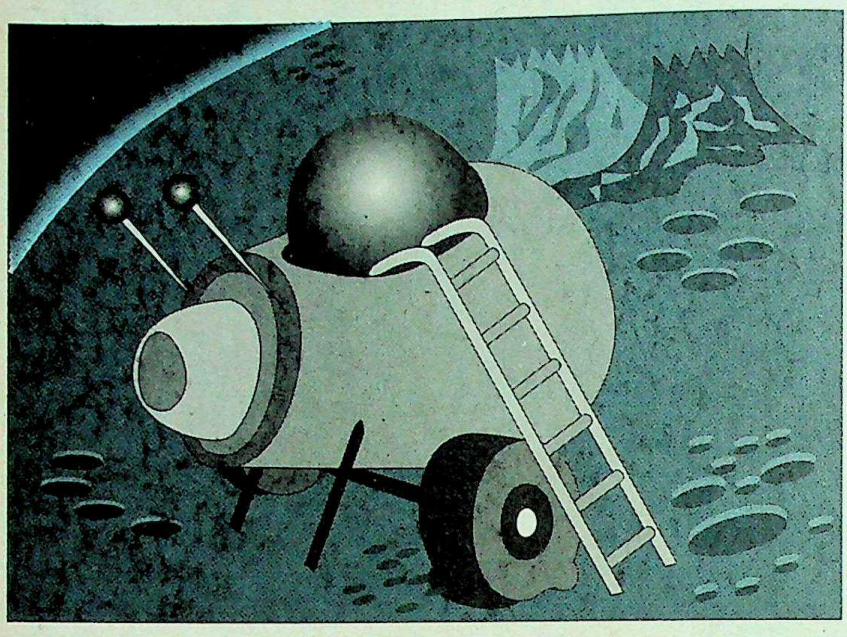
DATAQUEST

1996

PranabDutta

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Lunacorp of Arlington, Virginia, has signed up Mitsubishi as a partner in the $200 Moon Mission, the first commercial exploration of another celestial body. "Mitsubishi is excited about the commercial and scientific potential of privately organized lunar development," said Ron Horii, manager of space and electronic development for Mitsubishi International's Los Angeles office.

Rather than science, Lunacorp's first mission is heavily entertainment-oriented. The company expects theme parks to build attractions featuring a virtual reality cross-country tour of the moon based on the 360-degree video images sent back from the vehicles being constructed by Carnegie Mellon University.

Besides the moon rides, Lunacorp also plans to sell the images and other data to other commercial ventures, including several CD-ROMs on space. It also envisions attractions that would let a customer drive vehicles while seated on a motion platform, surrounded by 360-degree color views of the lunar terrain.

Still more business my be generated from scientific researchers and television or entertainment companies, which would pay for the rights to use the data and images or to advertise through sponsorship of the mission.

Ramgate Program "Stops" Windows Crashes

Hi-Tech's (http://www.ramgate.com.au) Ramgate, to be distributed by Pow! Distribution in the UK and Micro Central in the US, reduces the chances of a system lockup due to memory conflicts under Windows 3.1x, Windows NT, and Windows 95 and significantly improves their performance by preventing GPFs and UAEs.

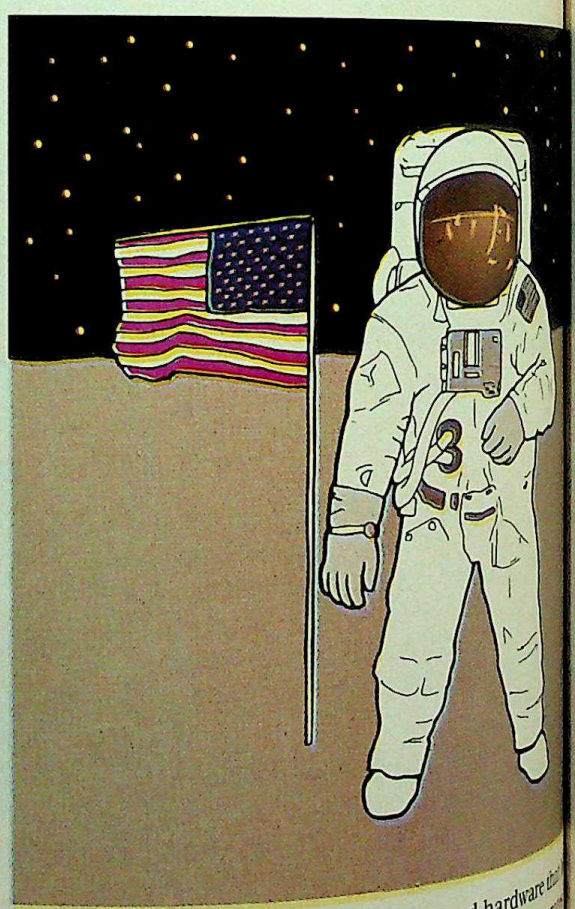
Ramgate is a winner of the 1995 Australian Business Software of the Year Award.

Ramgate uses contiguous blocks of RAM and resources. If an app asks for more memory, it is allocated a memory block close to a previously allocated block. This is how it helps Windows stabilize and work more efficiently, and better use of memory, in spite of low system resources. It has two modules; a TSR to protect system resources and allow users to open more apps than ever before, and Ramgate Pro, which protects every app from every other app used at one time.

CD-ROM Game To Be Taped At NASA Space Center

Wiz Technology has gained NASA's permission to tape astronaut training sessions in Space Center, Houston, Mission Control Room 2, for its new interactive CD-ROM game **Lunar Landing**.

Lunar Landing, to be released this summer, is a three-program for the domestic and international markets and features motion picture quality sound, voice recognition



graphics and is based on the events and hardware the Apollo 11 moon landing in 1969 and incorporates adventure theme of Apollo 13.

Players are commanders of the first US flight to the This is a multi-player game, which can be played simultaneously using modems. The first program will include a headset players to communicate with Mission Control.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE LAST WORD

The authority on the subject, DQ TOP 20 is the IT survey that matters.

DATAQUEST

Limited special positions available

For bookings call or fax immediately.

Bangalore: SRINIVAS Tel. (080) 5511511, 2868238. Fax 2862971. **Calcutta:** PARTHA Tel. (033) 2471285, 406492. Fax 408423. **Delhi:** YOGESH Tel (011) 6416315, 6476664. Fax 6411692. **Hyderabad:** KRISHNA Tel. (040) 848121. Fax 816960. **Madras:** ANIL Tel. (044) 459498. Fax 8252828. **Mumbai:** SUDHIR Tel. (022) 6427910, 6450050/51. Fax 6403986. VENAYAK BHATNAGAR D-14 Panchsheel Enclave, New Delhi 110017. Tel. (011) 6433999, 6435999, 6413938. Fax 6475765.

Indology, Digital Domain: Gurukul Kangri Collection, Haridwar

PranabDutta 1996

Digitized by Arya Samaj Foundation Chennai and eGangotri

YELLOW, OFFLINE:

India's Daily Press

Pornography online, cybersleaze, computer sex rackets and cyberdating. If you started believing in what the mainstream dailies say, the online world is just one big digital sex-shop.

Rarely has any article in the Indian press relating to the Internet focused on anything positive. The majority have fastened their teeth tightly on to pornography online. And almost all are written by reporters who have never seen a modem, let alone a Web page, making these articles misleading, and harmful to those on the verge of discovering the serious benefits of bulletin boards, intranets, or the Internet.

Two recent articles, one in the *Pioneer* and the other in the *Times of India*, have been particularly repulsive.

The *Pioneer* ("Now Showing on Your Computer Screens: Cybersex" by Raman Kirpal, Delhi, April 2, front page) described a "wave of erotica" sweeping across computer screens in the Capital. The reporter suggested that BBSs, rather than being a "land of knowledge", are spaces to "taste the forbidden fruit, laws be damned". He evidently finds such sleaze and pornography on BBSes with "intriguing names...like PCQ Online, ECTC, Synapse, etc." He adds: "...bulletin boards are catching on rapidly...because of their free online porn service...the screen comes alive with nude pictures of celebrities."

The *Times of India* ("Delhi Is a Haven for Computer Sex Rackets" by Sreerupa Mitra Chaudhury, Delhi, April 7) reported with equal carelessness on how to get into the "Internet BBS", claiming to quote a NASSCOM lawyer: "Just dial a number [the wrong number, incidentally—*Ed*], enter GIASDEL and a code...and soon, [pornographic] images will float across your screen..."

The TOI article claimed that a "large number of kids fresh from computer schools are jumping into selling sex through computer screens in the Capital..." and that services like the "Internet BBS" were popular among organizers of "upmarket call-girl rackets"!

If you go by the two papers' reports, we online users are cheap and perverse voyeurs who do little all day but download dirty pictures.

Serious BBS users are outraged. "This trash...enters the realm of yellow journalism," wrote in one. The *Pioneer* reporter did not bother to go online, over the way; from his armchair, he casually dismissed some of the most serious and fastidious BBSes around, with phrases like "happy smut-hunting", "hot button to hunt porn images in cyberspace", and the like.

One Web page quickly came up in response—appropriately named The Yellow Trashcan. At `http://pobox.com/~achitnis/` you'll find a trashcan icon, the articles that precipitated this site, and a place to leave your comments and reactions.

In response to strong protest, the *Pioneer* made a bad situation worse by printing a "retraction" buried on an inside page. Their retraction trivialised the protest, refusing to see the issue at hand at all, and portrayed what it called "BBS operators" as nit-picking computer buffs getting hot under the collar .

Not only has much of the mainstream press completely ignored the actual benefits and uses of being online, they have busily built up the impression that being online is synonymous with being a pornography addict. Irrespective of reality, computer "enthusiasts" are portrayed as drooling over their computer screens at images that doubtless couldn't possibly exist in the rest of offline life. Worse, computers are shown as a new source of corruption for youngsters.

Since these "news items", PCQ has had all kinds of callers: from worried parents to BBS users asking why they had never seen all these pictures of actresses, etc, on any of the boards!

Whether pornography exists more online than it does in real life is truly debatable—far worse is often to be found at the "hot button" of your

The TOI, Pio... et al are t... cultivat... perverse fix... with online...

television, on Chann... after a little walk dow... local magazine stand-... wallah.

Is there a need to e... lay journalists on the ... computers? This quest... put forward by many ... who work online. It s... ably not malicious... spurs the articles we ... the press today, but a ... knowledge. Seminars, ... shops for the lay pres... suggested. And also ... infotech press orga... mediawatch, scanni... press for articles like th... described above, and ... tering them with accu... formation.

At about the same ... the appearance of th... articles, ironically, ... *Tomorrow's World* fe... Bombay, with a focus o... India is today becomi... advanced in the use o... mation technology. It ... fortunate that back h... daily press is unable t... this.

Mail P... <mala@pobox.com>, ... <pkr@pobox.com>. If y... an opinion on this subje... a message to Mala ... <pcq@pobox.com>. P... LET column on PCQ ... it's...

CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

MANAGING EDITOR — SHYAM MALHOTRA
EDITOR — PRASANTO KUMAR ROY
ASSISTANT EDITOR — GOVIND MENON
CONTRIBUTING EDITORS — ATUL CHITNIS, GAUTAMA AHUJA, VIJAINDER K THAKUR

HEAD, PCQ LABS — KRISHNA KUMAR
REVIEWS COORDINATOR — ASAWARI KETKAR
SR REVIEWS ASSISTANT — MOHAN SINGH BIST

BUSINESS MANAGER — VENAYAK BHATNAGAR
CIRCULATION & COORDINATION MGR — ASHOK GUPTA
CIRCULATION COORDINATOR — RAJINDER
ACCOUNTS MANAGER — MADAN M SINGH
SR COMMERCIAL EXECUTIVE — ANIL KUMAR BHATIA

DESIGN & PROD MGR — ARUN SHANKAR
SR DESIGNER — REMA MARAR
SR DESIGNER — PAL SINGH
ASST MANAGER DTP — T SRIRENGAN
SR DTP OPERATOR — DIGAMBER PRASAD
DTP OPERATOR — JOSE PM
DTP OPERATOR — ALOK KUMAR SHARMA
SR PRESS EXECUTIVE — VIJAY NAGRATH

BANGALORE
GENERAL MANAGER (SOUTH) — E ABRAHAM MATHEW
REVIEWS COORDINATOR — BALAJI N
ASST MGR ADVERTISEMENTS — SRINIVAS AGNIHOTRI

MUMBAI
REGIONAL MGR (WEST) — HOSHIEDIAR GHASWALLA
ASST MGR ADVERTISEMENTS — SUDHIR VALVARA
SR MARKETING EXECUTIVE — RUPA L NATHANI

CALCUTTA
BUREAU MANAGER — PARTHA P BANERJEE
SR BUREAU COORDINATOR — SUJATHA KRISHNAMURTHI

DELHI
ASST REGIONAL MANAGER (NORTH) — T N PRABHU
REVIEWS COORDINATOR — MEGHNA BHATIA
SR MARKETING EXECUTIVE — YOGESH WADHWA

HYDERABAD
SR MARKETING EXECUTIVE — KRISHNA RAO
MARKETING EXECUTIVE — S SUBHA

MADRAS
ASST BUREAU MANAGER — ANIL KUMAR R

HEAD OFFICE
10 PANCHSHEEL ENCLAVE, NEW DELHI 110017. ✆ 6433999, 6413938. FAX: 11-6475765.

BUSINESS OFFICE
10 PANCHSHEEL ENCALVE, NEW DELHI 110017. ✆ 6433999, 6413938. FAX: 11-6475765.

REGIONAL OFFICES
5th CYCLE FLOOR, MBC, 134 INFANTRY ROAD, BANGALORE 560001. ✆ 2861511, 2868238, 2869872, 2866927. FAX: 80-2862971.
SAGAR CHAMBERS, 577 S V ROAD, BANDRA, MUMBAI 400050. ✆ 6427010, 6450050, 6450051. FAX: 22-6403986.
SUJATA'S BUSINESS CENTER, GND FLOOR, 233/3 AJC BOSE ROAD, CALCUTTA 700020. ✆ 2471285.
CYBER MEGHDOOT, 94 NEHRU PLACE, NEW DELHI 110019. ✆ 6413015, 6411692. FAX: 11-6476664.
SARATH COMMUNITY 12, 5TH FLOOR SRINATH COMMERCIAL COMPLEX, SECUNDERABAD 500003. ✆ 848121. TLX: 0425-6105 SRIN IN. FAX: 41-816960.
NO. 2, 1ST FLOOR GUNA BUILDINGS, 304/305, MOUNT ROAD, OPP. SPENCER'S, MADRAS 600018. ✆ 459498. FAX: 44-8252828.

Published by Pradeep Gupta on behalf of Cyber Media (India) Ltd, 810 Meghdoot, 94 Nehru Place, New Delhi 110019. ✆ 6413015 TLX: 031-71344 INDQ, and printed by him at Sahara Graphics Communications, C-3, Sector 11, NOIDA 201301.

Annual subscription: Rs 240 (1 Year) Rs 450 (2 Years) 630 (3 Years). (Add Rs 15 for outstation cheques).
Foreign: US$ 60 (airmail).
All payments favoring: CYBER MEDIA (INDIA) LTD.
Printed by contributors in India. Mirchandani & Co, Bombay.
Copyright © All rights reserved. No part of this publication may be reproduced by any means without prior written permission.
The publisher is not responsible for unsolicited manuscripts.
Editorial: 011-6221734 [Modem: 14,400 bps, N81]
E-mail: pcq@pcbox.com
Web: http://pcq

LEADING EDGE

PRASANTO K ROY

The Home Defines The Leading Edge

What's a "power-packed" office PC like today?

Anywhere in the world, it's a 486 or Pentium with 8 MB of RAM and a mono or color monitor. You may even find Windows 95, and (if you come across a "bleeding edge" power-user), a CD-ROM drive and a sound card. With a mix of apps (and expansion cards) that's predominantly 16-bit, with one or two 32-bit versions thrown in.

Now consider *this* machine. It's based on a high-power graphics workstation design. It sports a 64-bit Silicon Graphics processor that packs the punch of ten Pentium chips. It handles 3-D virtual reality simulations with the ease of a 486 doing simple addition.

Where would you find this little gadget in 1996? In an animator's studio? A real high-power publishing setup? Not quite. Where, then?

Why, in the home, of course. In a tiny machine whose only function is as a video-game console that attaches to your television set. The $250 Nintendo 64, when it's launched in September, will be the most powerful video-game player in the world. Nintendo calls it "SGI workstation power and performance scaled to the home marketplace." In practice, it's more power than you'll have on your office desktop for a couple of years.

That's how far ahead of office PCs is computing technology for the home. The home user has been a driver, pioneer, and prime consumer of the leading edge of PC developments and applications. The Pentium, multimedia, Windows 95—they all went to the home first, before they gradually crept into the corporate desktop.

There are good reasons for this. First, the applications—multimedia infotainment, games—are closer to what the home user is used to. This user sees sound and video as a natural need of any information product, and entertainment as the most natural application. In the office, the same person relates to computers for word processing and spreadsheets, and not for infotainment. Second, the cost: it's easier for an affluent home user to buy a single, well-equipped multimedia PC than for an office to decide on multimedia and RAM upgrades for 30 PCs.

No wonder, then, the exploding range of products aimed not at the office or SOHO user, but squarely at the *home*.

Bombay's recent Home PC Expo, probably India's first home-only infotech exhibition, was small, but packed with products (and visitors). The dominant exhibitors were retail-channel distributors, rather than individual PC vendors. The products ranged from hundreds of CD-ROMs to compact printers to home PC brands introduced in 1996.

These home PCs are still in the "skim-the-market" mode—all of them, from HCL Frontline's Beanstalk to Wipro Acer's Aspire to IBM's recent Aptiva—are overpriced for the specs, and Apple's Performa is just about easing up on the priceline. But the vendors, and most notably HCL Frontline with its Beanstalk PCs (which have reportedly sold over 2,500 units), are working hard at pioneering and developing this market, with software bundles, bulletin-board memberships (and other things that should have been there in the first place).

Watch out for some serious home-products price competition this year. And other pivotal developments in this whole new segment of the Indian home PC user, a group that will buy 70,000 new PCs this year, and over half of the new individual Internet accounts. Even if the leading edge of hype—the Network PC, *et al*—does not invade the Indian home, new products, brands, retail channels and special deals, and new computer magazines, will.

PKR

CC-0. PC Quest Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AXCESS E-MAIL

✉ aXcess e-mail was given a PCQ Editor's Choice last year, but the tests were evidently not done in Vadodara. Their service has been inconsistent, problematic, and often non-operational. Even for other related matters, Business India's responses have been unsatisfactory.

We are aXcess sub-dealers through Nishtu Electronics, Mumbai. One of our customers needed to change his aXcess e-mail address, and complained to us that BI was not responding to his requests. We sent a letter with eight reminders to BI, but in vain. Even though the customer was ready to pay for an otherwise incidental change, BI has yet to change the address. Consequently, the customer has not used the service. We have all correspondence in this regard.

That some aXcess users have been informed by BI that they should have their own INET accounts makes matters worse. I-Net application forms have been unavailable in Vadodara for the past two months, so all we can do is sit back and dream.

Beam Computers
Vadodara, GJ

AXCESS RESPONDS:

✉ There has been no disruption of our services, from any location, whatsoever.

aXcess is the only service provider offering network access through INET to enable remote users to avail of our services. INET is the sole domain of DoT, and we do not have any control over its performance. In case of disruption of the INET services, our service is designed to enable the subscribers to access the network through STD.

As for address changes, all requests for changes in e-mail address are effected only at the end of a billing cycle, due to various technical and commercial reasons. Incidentally, the request for a change mentioned above has already been serviced and the subscriber informed. The request was effected after the billing cycle was completed.

Sandeep Kohli
GM, BI Infotech

VINCA VENDOR

✉ While we appreciate the excellent coverage of the technology and the product in your review of the Vinca StandbyServer (PC Quest, April 1996), we were surprised to see that our name was missed out in the vendor's list. We were the first ones to tie up with Vinca Corporation, much ahead of Microland, and have a separate division based in Madras, with full-fledged marketing and support personnel in all our branches.

Our address is 1 Sivananam Street, T Nagar, Madras 600017. Tel: 44-4346769, 4345842 Fax: 44-4343734. E-mail: soeswe@giasmd01.vsnl.net.in,

Sowsue Electronics
Madras, TN

✉ Most PCs today come with fax-modem cards. To receive or send faxes, the PC needs to stay on for 24 hours. Is this harmful and is air-conditioning required?

Can you also suggest a good textile design software for designing patterns with different weaving styles for towels.

M Lakshmi Ranjan
Kanyakumari, TN

If you need to keep a PC running, go for a lower-power green PC with power management, and some mains power protection or backup, and you'll be fine. Keeping a PC running 24 hours doesn't damage it—in fact, repeated on/off cycles can cause more damage.

You can also buy devices that detect an incoming fax call and wake up a PC, and still other devices that store the fax while the PC is switched off, and dump it to the PC when it's switched on.

Air-conditioning is usually not needed, though as with all electronics, you need to avoid running a PC in a room that's very warm, humid or dusty.

PC Quest reviewed a package called AutoTex for Windows (PC Quest, August 1993). For other details of other packages, try next month's PCQ Products Annual. —Ed

---

✉ We started our BBS, VMS InfoNet, in Jalandhar in January, the first in Punjab. Access is free, and it has has more than 8 GB of shareware including PC Quest's CD-ROMs.

We will be soon launching Channel VMS, an online IT magazine reproducing articles and excerpts from various magazines. We also plan to give users e-mail through aXcess, and voice-mail using a separate telephone Line.

We would like your permission to reproduce various articles from *PC Quest* in our online magazine.

VMS Computers
Jalandhar, BP

PC Quest's magazine policy allows the online republishing of its articles ***three months*** *after the print publication date, without explicit written permission, provided that there is no modification or editing, and that full author and issue credits are ried. This does not apply to media. For print and for form, media or reprint written permission is req Ed*

PCQ BACK ISSUES

✉ As an avid read infotech magazines, ite is *PC Quest*. I have all your back issues almo its forerunner *PC W dia)* from February 19 in a transferable job and finding it difficult to these back issues, would love to. I am w exchange these for a 132-column dot printer. Any takers?

Lt Cdr Shekhar
15, Urvashi, Naval Base, Visakha

✉ Over the past three I have begun reading magazine, and this has me a lot. I was planning a printer. Your Marke section helped me buy good printer at a reas price. Now I've subscri PCQ helped me save

Dinesh G

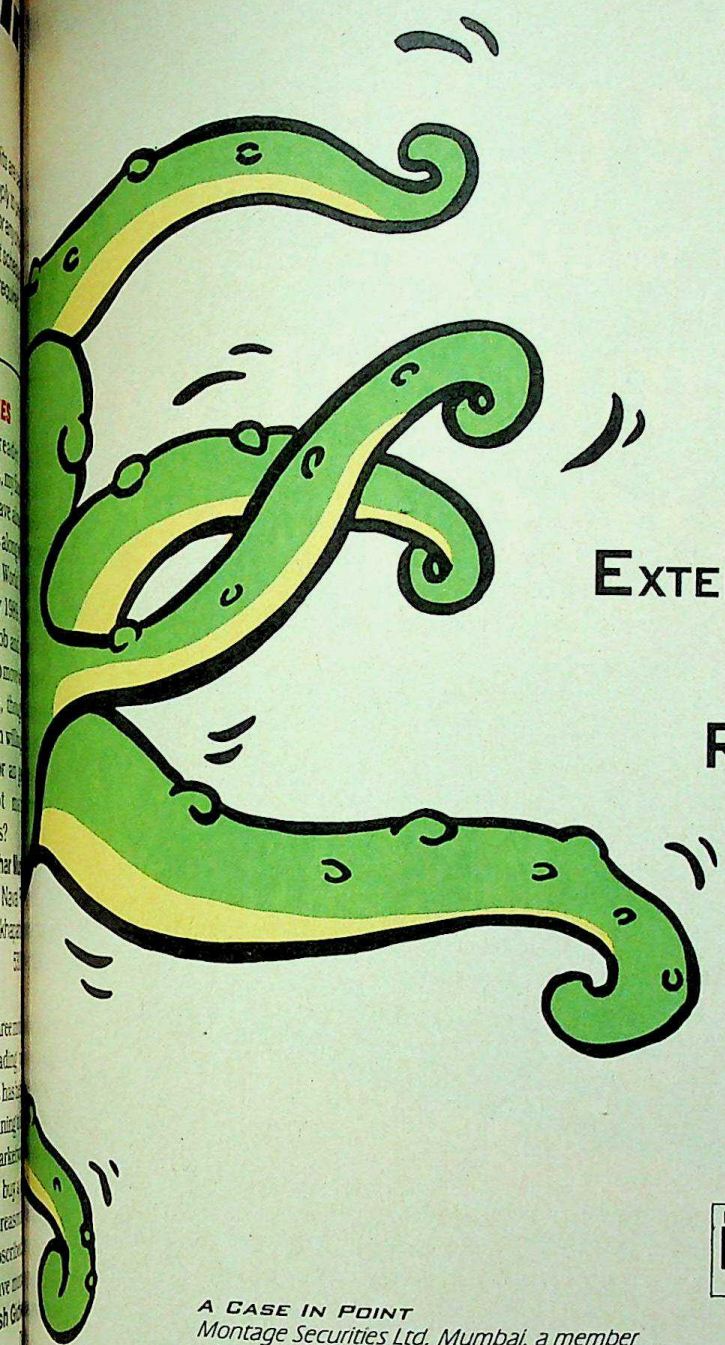
✉ A regular subscriber a PC-XT which I use hobby. I'd like to co BBSes and the In through a modem. Is sible to connect mod an XT and if not, wh grades do you sugges

S Ch
Jamshed

Its possible, but it so slow that you'd actu online time. A PC-XT is passe, for online or a use. A very cheap upgra 486 motherboard, pho

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



EXTENDING YOUR REACH

Do you get left out in the cold, cut off from your office LAN, just because you are at a remote location ? Worry no more. Your PC can now virtually function as a remote node of your office LAN no matter where you are. With the help of MultiCom Remote Node Gateway (RNG) - a family of PPP communications servers incorporating MultiCom RNG, the software component, as well as a set of ISI cards.

THE MAGIC OF RNG

Connect to RN Server and your PPP remote client at once turns into a fully featured node of any IP/IPX network.

RNG'S WELCOME FEATURES

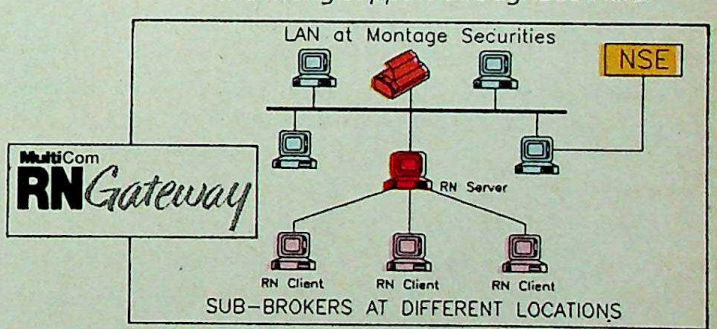
‖ High-speed dial-in/dial-out ‖ RN Server management utilities ‖ Remote console for logging in/viewing/controlling on DOS/Windows ‖ LAN access to 32 users at a time.

DIVERSE UTILITIES

‖ Modem and phone line pooling ‖ Access to Internet ‖ Ability to plug into office LAN from home.

TOTAL BACK-UP

RN Gateway is offered by MultiTech Software Systems, a part of the MultiTech group, market leaders in networking and datacommunications, noted for superior and resources – sharing technologies and effective total solutions that include professional, customer-sensitive post-marketing support throughout India.



A CASE IN POINT

Montage Securities Ltd, Mumbai, a member of the National Stock Exchange (NSE), use MultiComRNGateway to connect their sub-brokers at different locations to a common network, enabling them to access market rates, place orders online and transfer files between offices.

To extend your reach across LANs reach us at any of our marketing nodes listed below

MultiTech Software Systems

There is more to MultiTech than modems.

MultiTech Software Systems India Pvt. Ltd.
Head Office : 1, HAL 2nd A Stage, 17th Main, 100 Feet Road, Indiranagar, Bangalore - 560 008
Ph : 5260083/5273258 Fax : 080-5273258.

Branch Offices :
Mumbai : Ph : 6323411/6317017 **Delhi** : Ph : 6488633 **Madras** : Ph : 4825328 **Secunderabad** : Ph : 804788 **Calcutta** : 2409521

Authorised Dealers :
Ahmedabad : Kirti Sales : Ph : 463466/463766
Mumbai : Sandeep Computers Ph :4954738/4944738, Prolink Computers : Ph : 5690213, Ashtech Infotech Pvt. Ltd. : Ph : 4936814/4927388
Calcutta : Microcom : Ph : 4660018/4666760/4665840, Oasys Consultancy Ph : 268189 **Delhi** : MultiTech Computers Ph : 600286, KUSP Electronics : Ph : 6823691, Next Generation Systems Ltd. Ph : 3270279, **Hyderabad** : Mohan Marketing Associates : Ph : 846863/849929, Susha Technologies : Ph : 391954/318609, **Pune** : WorldTech Marketing & Computer Services : Ph : 458317.

MAREECH

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The new Sportster Vi with personal voice mail. Guaranteed to leave the competition speechless.

You've heard a lot of modem-talk. So isn't it time you heard a modem talk? The new Sportster Vi 14,400 bps faxmodem from USRobotics with Personal Voice Mail, which accepts and digitally records your incoming voice messages.

The Vi also signals alphanumeric pagers, supports caller ID, automatically detects incoming fax calls and delivers fax on demand. Plus, with its new VoiceView protocol by Radish Communications Systems, you can actually send data during an ordinary voice call.

The Sportster Vi, like all USRobotics products, features award winning quali... which has made USRobotics the larges... selling modems in the world. The... USRobotics range not only includes... modems (external and internal), but other... access products like PCMIA, network... managed systems and ISDN products.

USRobotics is brought to you by... Microsense - who offers and supports... everything in modems, communications... software and other access products.

For more details about the Sportster Vi... modem or other models in the USRobotics... range, do the obvious. Talk to us.

USRobotics from MICROSENSE

USRobotics, the USRobotics logo and Sportster are the registered trademarks and Sportster Vi is a trademark of U.S. Robotics Inc. or USA. VoiceView is a registered trademark of Radish Communications Systems Inc. USA.

Microsense Computers Pvt. Ltd. • Bombay: 808, Embassy Centre, Nariman Point, Bombay 400 021. Tel: (022)2872948, 2831489, 2825441, 283664... Fax... **Email:** bomaad90@giasbm01.vsnl.net.in • **Delhi:** 1, Community Centre, East of Kailash, New Delhi 110 065. Tel: (011)6410134, 6465855, 6470619-20, Fax... **Email:** DELAAB30@giasdl01.vsnl.net.in • **Madras:** 5/D, J.P. Towers, 7/2, Nugambakkam High Road, Madras 600 034. Tel: (044)8276469, 8256529, 823306-07, 844781 Fax... **Email:** MDSAAA33@giasmd01.vsnl.net.in • **Secunderabad:** 2nd Floor, Emerald House, Sarojinidevi Road, Secunderabad 500 003. Tel: (040)845008,846266, 2273553-4 Fax... **Email:** bomaad63@giasbm01.vsnl.net.in • **Bangalore:** 209, 2nd Floor, Richmond Tower, Richmond Road, Bangalore 560025. Tel: (080)2210816, 2218037, 2273553-4 Fax... **Email:** bomaad64@giasbm01.vsnl.net.in • **Calcutta:** AD, 161, Salt Lake City, Calcutta 700064. Tel: (033)3213791, 3213870. Fax: 3376290. Email:CALAAA36@giasbm...

Dealer/OEM Enquiries Welcome

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...d need to change a few more ...gs, such as your hard drive ... controller. You could even ...k of disposing off your XT—if ...re are any takers—and buy... a new PC. If you're on a very ...d budget even a cheap sec... hand 386/4 MB/120 MB will ...or now, but we recommend ...ast a 486/8 MB/540 MB and ...o VGA, for any other applica... you may want to run. —Ed

...'ve been a PCQ reader for ...past two years, and read ...r review of the new Seiko... ...on EPL 5600 laser printer. ...have mentioned that the ...ter's rated life is five years ...80,000 pages. However, ...company's brochure that ...ceived when I bought this ...ter does not mention this. ... you to clarify how you ...ed at this figure when its ...entioned in the brochure ... whether this figure is ...nticated by Wipro Pe...erals, the Indian vendors.

Jagpreet Singh
Dehradun, UP

...e information was from the ...ials supplied to us, and from ...pson site on the Internet. ...life-cycle is indicative, and ...ends on how the printer is ...ded and run. Which means ...f you keep to within the ...er's monthly cycle of print... ...the laser engine should last ...nd that long. If even better ...n taken of the printer and ...are fewer printouts per *month, it could last longer. Note that these are statistical averages, and individual printer life will vary depending on operating conditions, power supply stability, etc. In most Indian environments, the life cycle may be lower. —Ed*

✉ We get PCQ in Shillong about a month late. The problem with subscribing annually is that out of 12 issues, we receive just five (the postal staff help themselves) a year. Is it possible to send the magazine by courier if I pay annual subscription. You can then get more subscribers here.

The CD-ROM given free with PCQ (I have yet to get one!) could include some general software with some games, and make PCQ a family magazine.

Rejuvenated PC users like me would like to use PCQ Online. You could publish an article guiding us how to go about it.

Perhaps you should also publish a page in each issue to help professionals get the most from their PCs.

Dr Vinod Gondalia
Shillong, MG

PCQ goes by courier to nine cities, and we are looking at expanding this, but at present smaller cities and towns aren't covered. We would definitely like to ensure safe and prompt delivery to all subscribers, and we're exploring various alternatives. Meanwhile, we have sent to you by courier copies of the past two CD-ROM issues, December and March.

PCQ is largely aimed at power users as its core audience. But we appreciate the larger audience of novice, home and SOHO users out there. So for a family magazine of the kind that you're suggesting, wait for just a few months! —Ed

---

MULTIMEDIA STUDY

✉ I am a third-year student doing a diploma in software engineering at Aptech, and working for a local multimedia studio. I would like to specialise in multimedia authoring.

I have helped in two multimedia projects developed using Multimedia Toolbook (CBT Edition), Can you tell me what software is used, the names and addresses of the institutions offering such courses in India and overseas.

Mayura Saxena
Hyderabad, AP

We don't know of any. The NIC has an introductory five-day course in multimedia, and several private institutes have introduced multimedia courses. But for the best hands-on experience in authoring, you need to work with a group (say a design or production agency) involved in multimedia authoring. Such agencies use tools such as Macromind Director (for PCs and Macs), AuthorWare Pro, Autodesk Animator, and a number of other packages. You can sample some low-end multimedia creating with packages like CorelMotion 3D and Dream 3D (part of CorelDRAW). Today, many developers are also creating multimedia packages in more generic visual environments, such as Borland's Delphi and Microsoft's Visual Basic. —Ed

---

✉ I'm a Class XII science student and am very interested in computer science. I plan to study for an Master of Computer Applications (MCA). What will the demand-supply gap in the next few years? When will it reach saturation. Besides MCA, what other options are available? If I did B Sc (computer science) what subjects should I choose.

Ashok Desai
Mumbai, MH

If you're really interested in computer science itself, you need to look at a computer science course at an engineering institute such as the IITs, IISc, or RECs. From there, you can get into core computer science work—from chip and bus design to software algorithms to meteorological modelling. More than computer knowledge, this requires a firm grounding in mathematics.

If however you're interested in working with computers—as developer or hardware engineer or end-user, what you need isn't really a computer science background. An MCA is useful for directly getting into "infotech-industry" jobs such as with hardware firms, but non-computer graduates who have been using PCs extensively (say at home) have as good a chance at most end-user jobs in infotech as anyone else. So you need to identify which of these you want to get into. —Ed

---

✉ Are there any CD-ROMs available to study international languages such as French or German, with dictionaries. Can you clearly indicate the validity of the trial packs on your CD-ROMs. I would also like to read an article in PC Quest that benchmarks DBMS such as dBASE 5.5 with FoxPro for Windows, Delphi, Paradox, etc.

KR Prabhu
Mangalore, KT

There is the Rosetta Stone Series available for French, German, Spanish and Russian from Innoserv Systems, New Delhi (11-6863058); Foreign Language Pack from Databank Systems, Madras (44-8240364); and For-

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

eign Language Tutor from Bhutani Computers, Madras (44-515373).

Trial pack licensing is clearly indicated with every program—some of them are time-limited versions, others feature-restricted, and still others (such as IBM's OS/2 Warp in our August CD-ROM) physically unrestricted and limited only by the user license.

✉ I am a software developer and am developing InfoMan, an OS-independent personnel information application. I have decided to make 5,000 copies on CD-ROM and being new do not know much about the process.

I want to know why are your CD-ROMs limited to 500 MB and what do such disks cost.

I also want to copyright software developed by me. How can I do this. Also how do I get my software reviewed by you.

Hemant Malhotra
M-45, MIG Colony,
Adityapur II Jamshedpur
831013

You need to transfer the software to a clean hard disk where you create the final structure that you want on the CD-ROM, and test this out fully (after write-protecting all files, to simulate the CD-ROM). In the next step you go to someone with a CD-R drive, who will etch out a master copy of your CD-ROM (about Rs 2,000). This needs to be tested fully, and you'll usually find that you need to fix bugs, and go through another master. Finally, you hand this over (with your artwork for printing on the CD-ROM) to a company that reproduces them. There are a number of them in India. While at small numbers the CD-ROMs could cost you up to Rs 100 each, at production runs of over 50,000 (such as for the PC Quest CD-ROM) the cost drops to a quarter of that, because of the high cost of the initial glass-mastering and stamper creation process.

The CD-ROM can hold about 660 MB of data. This depends on the density of information you can pack in (the "a real bit density"), and the dimensions of the track—which depends on the laser light used to read it. Higher-density disks use blue light lasers, but the audio CD and CD-ROM drives share the standard red laser, which is at present limited to 660 MB. Within a year, you'll find digital videodisks (DVDs) with several times the capacity.

Watch out for a feature on copyrighting software in the August issue. —Ed

---

✉ As a regular reader, Your articles have influenced me into joining a computer course while doing my graduation. I now need a PC. Which vendor should I choose, and how do I ensure that the computer meets my specifications. Also how does one ensure that it has a genuine CPU and what important points should I consider while purchasing.

A Chandigarh-based vendor is offering a Pentium-75 for Rs 50,417, including taxes. Is this a good price, or should I wait. I have also noticed prices of systems mentioned in your magazine are high and I can get PCs of the same configuration for less. Why is this so.

Shailendra Singh Yadav
Panchkula, HR

It's difficult to recommend a single brand. We've tested many at PCQ Labs, and they've performed well for different applications. Broadly, we suggest you go for branded systems for the support, unless you can get good support from your local supplier. The difference in their prices is the difference you notice—we usually carry brandname prices. —Ed

WRITING FOR PC QUEST

- ❑ Articles sent must relate to products, applications or tech... ogy relevant to the personal computer user
- ❑ They must be no longer than about 1,500 words, un... specified otherwise by the Editor
- ❑ PCQ does not publish program listings, except for s... programs or modules illustrating a point within an article, or ... short programs illustrating new or innovative techniques ... SWAP)
- ❑ Every article must be accompanied by a signed letter certi... that the article is original and is not offered for publica... elsewhere
- ❑ Manuscripts should be neatly typed or printed, on A4-... paper. Articles on floppy (3.5" or 5.25") in plain ASCII te... standard word processor formats will be preferred. Articles ... also be sent by e-mail to **pcq@pobox.com** or to the PC... Forum of **PCQ Online** (11-6221734)
- ❑ Please ensure that the address is clearly printed both on ... covering letter *and* on the manuscript. If a floppy is sent, att... a label containing the author's name and address. Also incl... a README.TXT file containing the same.
- ❑ Letters to the Editor must be marked Readers' Forum ... must carry the author's signature, name and address. Lett... requesting information on general interest will be publis... with a response if necessary. We regret that we are unable ... reply individually to Letters to the Editor, or Help Screen que...

PRODUCT NEWS

To be considered for publication, a write-up for the Prod... News pages *must* include all of the following:

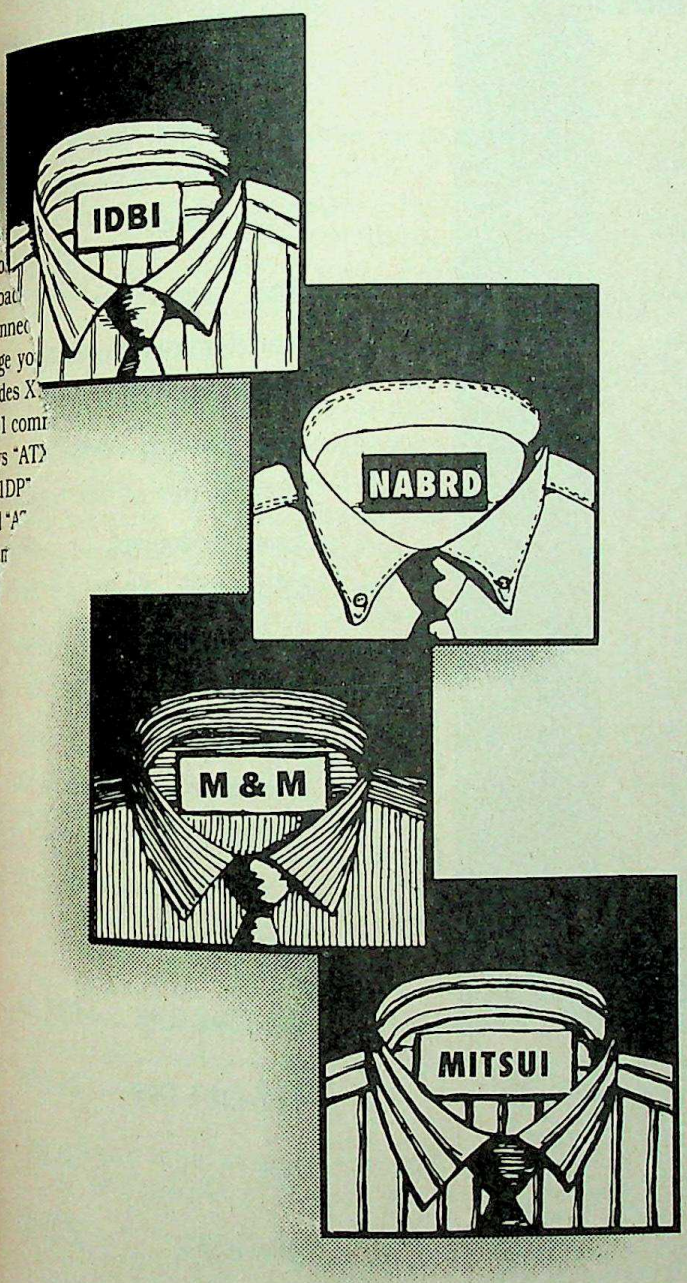
- ◆ Name, type and price
- ◆ Applications and target
- ◆ Full specifications, special features, advantages ... limitations
- ◆ Availability of final, ready package: when and where
- ◆ The name and telephone number of the person who ... contacted for further details or a demonstration
- ◆ A product brochure
- ◆ A good B/W photograph, colour transparency, or a screen ... of the product
- ◆ The product must be available for demonstration and ... in any of the four metros or in Bangalore.

Standard press releases without these supports will not ... considered for publication.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

For Reliable Networking Solutions...



...they depend on Datamatics.

...VSNL, RBI, Deutsche Bank, TEC, The Indian Army...the list is endless. Datamatics - the company that provides faster and simpler networking solutions to corporate giants in India.

Datamatics has forged strategic alliances with world leaders in Information Technology. It markets and supports products of Banyan Systems Inc. for LAN/WAN solutions, Hayes Microcomputer Products Inc. for communication solutions through modems, and Ascom Timeplex for multiplexers, etc.

Datamatics also offers the following services :
• Networking consultancy • Networking LAN/WAN software • Groupware software • Datacommunication products • On line support through BBS

To service and support its esteemed clientele, Datamatics has an extensive Reseller Network, across India.

BANYAN
Networking Without Limits

Hayes™
Increasing the Speed of Business.

ascomTimeplex
Networking The World

Datamatics Ltd.

Datamatics Information Technology : 106, Embassy Centre, Nariman Point, Bombay - 400 021. Tel.: 022-2831188/2853107. Fax : 91 (22) 2853108. Branches : Bangalore - Tel.: 080-5544600. Fax : 080-5546266. Calcutta - Tel.: 033-2446211/2446212. Fax : 033-2446213. New Delhi - Tel.: 011-6464455. Fax : 011-6211030. Madras - Tel.: 044-8522850. Fax : 044-8522559.

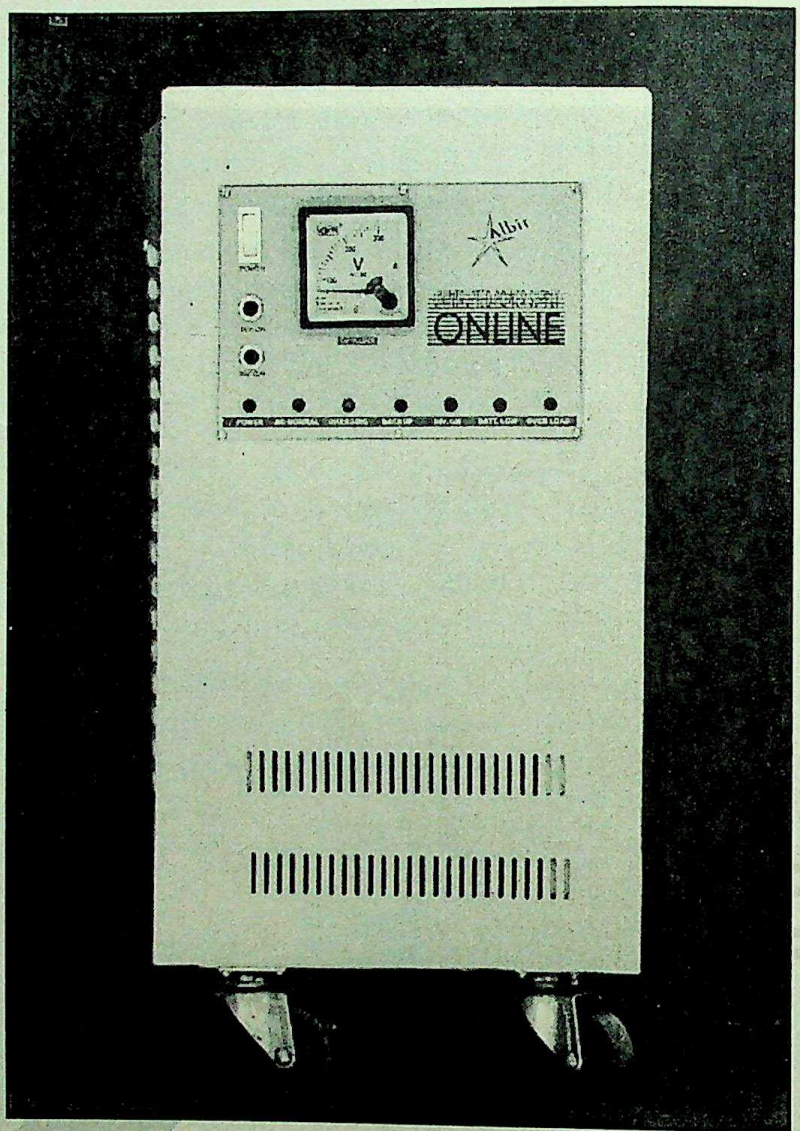
All trademarks are the registered trademarks of their respective owners.

: UBIQUITAS/249 :

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

COMPETITIVE PRICE, QUALITY INTEGRITY & RELIABILITY ARE YOUR BEST WARRANTY



Computers & Micro-processor systems need protection electrical line disturbances Voltage Spikes, Transients, Sags, Power Glitches, Severe Fluctuations & Total Power These Electrical Line disturbances harmful to your PC, which if by an inefficient & sub-standard into your sophisticated system damage your equipment or cause loss of your valuable data. Obviously you would ask for the best solution these problems.

Albit Electronics Pvt. Ltd. manufacturer of quality ON-LINE UPS, CVT & Inverters. fast growing company, on a short period of our establishment have acquired a good reputation. Why? All Albit products are tried and tested to ensure performance. Thanks to our R&D efforts and stringent QC that keep our products way ahead the others. Albit products are available in a much wider range to be chosen from.

ON-LINE UPS - 500 VA - 10 KVA

OFF-LINE UPS - 250 VA - 1 KVA

CVT - 50 VA - 5 KVA

INVERTER - 250 VA - 5 KVA

Albit

Albit Electronics Pvt. Ltd.

B-20, BASEMENT, SHAKTI NAGAR EXTN. DELHI-110052
PH.: 7428038, 7428039, 7218038 TELEFAX : 7419039

UPS CVT INVERTER

CC-0. In Public Domain. Gurukul Kangri

Digitized by Arya Samaj Foundation Chennai and eGangotri

Datacom Troubleshooting

Internet users are increasing in India. So are their problems. Here are some of the common ones

Last month, I had promised to look at more Linux connectivity options. However, volumes of queries on datacom problems has forced me to change this month's topic. Here are some of the many I receive regularly through e-mail.

MODEM TROUBLESHOOTING

My modem dials fine, but as soon as it hears the first ring at the other side, it disconnects with a "BUSY" message.

Most of the modems recognize the Indian ring-back signal as an US "BUSY" tone, and disconnect. You can get rid of this if you change your modem's "init" string so that it includes X1 instead of the X2 or X4. Also add the X1 command to the dialling prefix, so that it says "ATX1DT" (if you use tone dialling) or "ATX1DP" (for pulse dialling) instead of the usual "ATDT" or "ATDP". If it fails, change the modem's "init" and dialling strings to include X2 instead of X1 or X4. The problem is also the scourge of most on-line services—someone calls in and immediately disconnects, while the service's modem tries for up to 90 seconds to handshake with a non-existing modem! Set your modem to ATS0=2 to answer after two rings instead of one.

My modem disconnects every 5 minutes.

The DoT beeps you on the line once every 5 minutes. This causes your modem to disconnect. Try setting ATS10=200. A good modem then retrains at those moments and resumes the connection. Also check that your modem is retrain-enabled. Some modems have this turned off by default (usually through the AT%E0 command, which should be AT%E1).

How do I know whether my internal modem has disconnected the line properly?

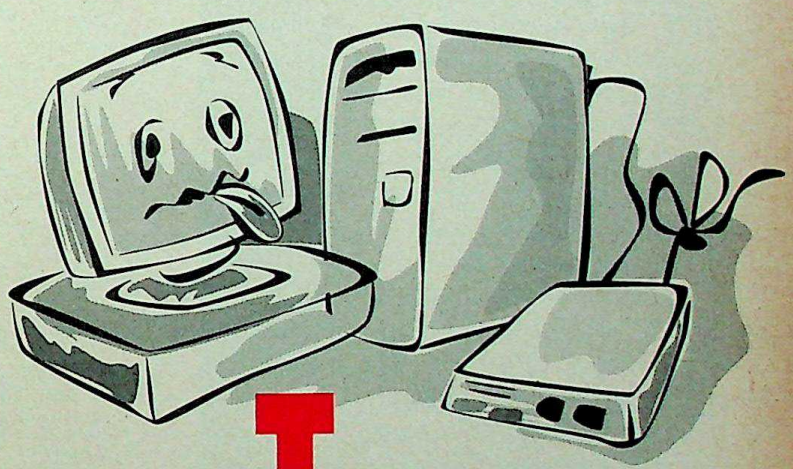
Try to dial again immediately after disconnecting, or, even better, disconnect the phone line from your modem. Some internal modems do not hang up even though the connection has been terminated. Replace it with an external modem.

My modem dials fine, connects to the remote service, gives me a "CONNECT" message and immediately disconnects.

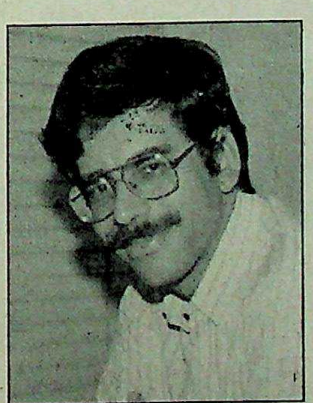
Your modem is a non-error correcting type—it does not have MNP or V.42 error correction. The remote service has set its modem not to allow non-error correcting connections. Buy a modem with built-in error-correction hardware.

My modem is rated for 57,600 bps, but when I transfer a file, I get throughputs of only 1,500-1,600 bytes per second!

The term "bps" stands for "bits per second". In asynchronous communication, every 8-bit byte requires two additional bits to be transferred, so you end up with 10 bits per byte. Therefore, 14,400 bps actually means (14,400/10) or 1,440 bytes per second. Next, there is no dial-up modem rated at 57,600 bps. Modems are rated at 14,400 or 28,800 bps—this figure actually refers to the modem-to-PC connect speed or the datacom equipment (DCE) speed. The 57,600 bps is the data terminal equipment (DTE) speed, typically set to 2-4 times higher than the DCE speed to derive the benefits of modem data compression. A transfer speed of 1,500-1,600 bytes per second indicates that your modem is a 14,400-bps one, and there is nothing to worry.



The type of Internet connections you get in India could change, now that the government has lifted the barrier on private Internet providers



Atul Chitnis is a datacom and network consultant in Bangalore. You can reach him at atul@iisc.ernet.in or via his web pages at http://ourworld.compuserve.com/homepages/achitnis

My modem power supply keeps blowing up, and the vendor blames it on my electrical environment, and demands a service fee everytime he fixes it.

In most cases, the modem power supply is just a transformer block—any rectification is

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

done inside the modem. If the power supply blows up, it is almost certainly a design failure. If your modem vendor attempts to charge you for such repairs (that also falls under the warranty), you are being taken for a ride, and can take the vendor to consumer court.

COMMUNICATION SOFTWARE TROUBLESHOOTING

My communication software does not work with my modem.

Modems are "black boxes" that do not care what communication software you are using. It's a modem hardware and phone line related issue. Your problem is probably only a case of setting the software to suit your modem. Try another program.

I get a lot of CRC errors while transferring files.

If you are using a high-speed modem, you are certainly facing a problem with flow control. Modern communication no longer uses software XON/XOFF (^S/^Q) kind of flow control, but something called "Hardware Flow Control" (RTS/CTS). Set your software to use hardware flow control. On the other hand, if you do not have a 16550A-based serial port, you cannot set your terminal (DTE) speed greater than 19,200 bps. Set it at 19,200 bps and see if things improve. If you are working with a 386 or a slow 486 under Windows, it is likely that you will face problems even with terminal speeds of 19,200 bps. Get out of Windows and use a DOS-based program such as Telix or Procomm Plus instead.

I cannot transfer files using Procomm.

Procomm version 2.4.x or earlier do not have Zmodem—the default transfer protocol used by most service providers. Get a communication program that supports Zmodem.

I use Hyperterm under Windows 95, but I cannot resume crashed transfer even though I use Zmodem to download files.

Unfortunately, the Hyperterm program supplied with Windows 95 does not support crash recovery. An update is available over the Internet at http://www.hilgraeve.com/htpe.html. Try it.

When I start a download, the status panel comes up and the transfer immediately crashes.

Check your default download path. If it points to a non-existent directory, you will observe this problem. Erase the default download path and try again.

I am unable to download/upload files from VSNL's GIAS using Zmodem.

VSNL, in its infinite wisdom, uses dam versions of the sz (send Zmodem) and (receive Zmodem) program. Try to invoke sz program with the following parameters -e -l 1024 -L 1024 <filename>. Similarly the rz command with a little change as -b

When I connect to an on-line service get all sorts of junk characters on screen.

Enable the VT100 Terminal Emulation mode required to connect to VSNL, or ANSI-BBS mode required for most BBSs it.

When I connect in TCP/IP mode to Internet using Windows 95, I can work for long time, but then everything stop working, even though the connection alive and there are no retrains.

Microsoft recently admitted that there is a memory leak problem in Windows kernel that would cause TCP/IP connection to stop responding if you are in a very dense TCP/IP traffic that opens and closes lots sockets. A fix is available at www.microsoft.com.

I have a TCP/IP account, and I also have Netscape, but I cannot surf the Net.

You also need to install a TCP/IP software Try Windows 95 TCP/IP support, Trumpet Winsock, and so on.

When I connect in TCP/IP mode, Netscape responds with "Host not found".

Your DNS settings are wrong. If you are connected to VSNL, the settings should be 202.54.1.30 and 202.54.1.18 instead of 144.16.1.1 and 144.16.1.100 that VSNL used earlier.

That's it for the time being, with speed at a premium. Before I log off, here is a web address that you would find useful: http://web.aimnet.com/~jnavas/modem-faq.html. This is John Navas' Modem FAQ, an excellent resource for modem users, especially the high-speed ones. He also debunks lots of modem myths, and has a list of useful links to other communication-related resources.

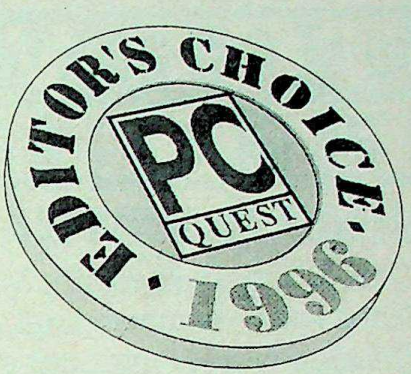
By the way, here is a little "in-your-face" to all those who kept saying "why buy a V.34 28.8K modem—there will never be 28.8K service in India". Well, many bulletin boards in India now support 28,800 bps modems, and as we go to press, VSNL has set up 28.8K bps modems on TCP/IP lines in Delhi and Calcutta, with other cities to follow in quick succession. ■

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WE REGRET NOT GETTING ANY WESTERN TECHNOLOGY INTO THE COUNTRY.

No western country we know, has DESU.



Ranked No: 1 by
PC Quest Magazine

Power breakdowns is one thing, power fluctuations, quite another. At Datex, we understand that your sensitive machines need to be saved from fluctuations. Thus, we designed the **Accure** range of UPS, which works under severe Indian power conditions. And withstand extreme power fluctuations - as much as between 150V to 270V.

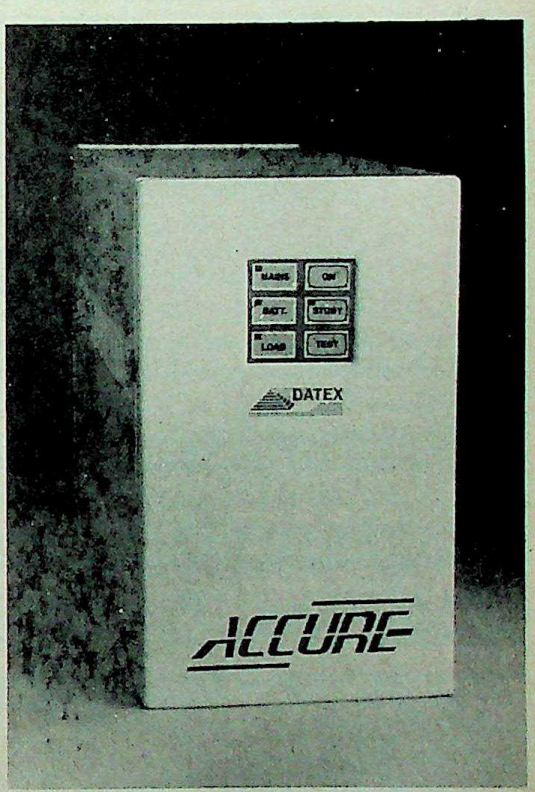
Accure:
- works at voltages as low as 150 volts;
- has less than 2 millisecond switchover time;
- works under frequent voltage fluctuations;
- gives you the options of larger back-ups;
- comes with a 2-year warranty.

All the above features have been tested by IIT, Delhi, under stringent conditions. And that is why ICI, DCM-Daewoo, EIL, Nokia & a host of other companies trust **Accure**.

All this is because we combine the best technologies to suit Indian conditions. And we go - the Indian way.

It is no wonder then, that the **Accure** has received the *Editor's Choice* award by *PC Quest Magazine*.

For more thought-provoking information, call Sameer or Pawan at 462 1931 or 460 2457. Or contact them at the address below.



ACCURE UPS

the high performance line-interactive UPS

available in ranges from 200 VA to 2000 VA

corporate communications DT2/96

DATEX

Datex Electronics Pvt Ltd

T-1512/1 Bhism Pitamah Marg, Opp. Sachdeva P T College, Defence Colony, New Delhi - 110 003. Fax: 462 1931.
● Bangalore ● Calicut ● Cochin ● Coimbatore ● Trivandrum ● Dehradun.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Intelligent Anti-Virus Toolkit

STOP VIRUS BEFORE DOS

IAVT

Q : WHAT IS VIRTUAL INDICATOR ?

Ans : "Virtual Indicator" to stop virus before DOS
Ans : Stops even unknown boot viruses
Ans : Will stop boot viruses not even written as yet !
Ans : Security and protection of Hard Disk before DOS
Ans : Does not use any hard disk space
Ans : Leaves precious memory free and is not a TSR
Ans : VI protects the hard disk, even if CMOS is changed
Ans : Visual indicator for a healthy computer

ADVANTAGE

GENERIC SCANNER

STOP VIRUS BEFORE DOS

VIRTUAL INDICATOR (IBVC)

CLEAN WITHOUT CLEAN DOS

GENERIC BOOT/PARTITION VIRUS CLEANER

CLEAN MULTIPARTITE/POLYMORPHIC VIRUSES

CLEAN FILE VIRUSES WITHOUT DESTROYING FILES

STOP VIRUS WHILE COPYING/OPENING OF ANY FILE

100 % INDIAN & ONLINE UPDATES/SUPPORT AVAILABLE

INSTANT PROTECTION AGAINST INFECTIONS FROM FLOPPIES

Protect Your Computer Intelligently

FEATURES	IAVT	RED ALERT	NASHOT
GENERIC B/P CLEANER	YES	NO	NO
GENERIC FILE SCANNER	YES	NO	NO
VIRTUAL INDICATOR (IBVC)	YES	NO	NO
CLEAN WITHOUT CLEAN DOS	YES	NO	NO
STOP VIRUS WHILE COPYING	YES	NO	NO
CLEAN FILE VIRUSES WITHOUT DESTROYING FILES	YES	NOT ALWAYS	NOT ALWAYS
THREE YEAR WARRANTY ON BOOT PATRTITION VIRUSES	YES	NO	NO
PRICE (In Rs.)	1888.00	3000.00	N/A

All names are property or copyright of their respective companies. The above comparison is between IAVT Ver 3.01, Red Alert Ver 4.0 & Nashot Ver 17.0

Partial list of IAVT users

Delhi Stock Exchange
HCL-Frontline Limited
Singapore Airlines
TELCO
TATA Chemicals
Department of Telecommunications
Escorts Heart Institute
IIT, Delhi & Bombay
Voltas Limited
Blue Star Limited
BPL-Sanyo Limited
World Bank
All India Radio
Airport Authority of India
NASSCOM
BARC, Bombay
OXFAM
TATA Export Limited
Ministry of Defence, Sena Bhawan
Nuclear Power Corporation
RITES
Llyod Steel Limited
Hero Cycles Limited
Siemens Limited
Tata Liebert Limited
UNICEF

ANNUAL INTELLIGENT ANTI-VIRUS CONTRACT & DATACARE

Now, even greater protection than IAVT !
Yes, we at FGSL now offer professional protection for your computer, against viruses and data losses around the year.

Contact for Annual IAVC and DataCare contracts

Complete protection against Boot/Partition viruses on Windows 95 machines

FIFTH G.E.N.E.R.A.T.I.O.N™

Fifth Generation Software Limited

Corporate Office : 140, Zamrudpur, Nehru Mkt, Opp. LSR College, New Delhi - 48 Phone : 6452200, -01, -02, -03, 6226805, Fax : 6219
Regd. Off. : 5, Ashoka Park, Rohtak Road, Delhi - 35. Ph : 5103299, 5458018, Mumbai : Raj Villa 2, Outpost Military Camp, Vakola, Santa Cruz (E), Mumbai - 400029 Phone : 8
Ahmedabad : A/3-4, Sakal Apartments, Opposite Naranpura P.O., A'bad - 380013 Ph : 7410232, Secunderabad : 95C, Siddamsetty Complex, Park Lane, S'bad - 500 003 Phone : 8231663, Delhi - 62
North India Distributor (Delhi) : VINCOM - 6926888, NOW !! Also available at : HCL-Frontline Super Store : Madras - 8231662, 8231663, Delhi - 62
Ahmedabad : Gunjan Enterprise - 5359160, Amritsar : Computer Associates - 228769, Bangalore : Link Systems - 3350389, Namratha Electronic Centre - 6619116, Bhopal : I.D.E.A. - 55
Mumbai : Gem Elecomp - (0251)-471322, Gripp Computer Services - 5341301, H.T.P. Systems - 8729989, Micro-Tech Enterprises - 5426728, Sainath Overseas - 5
Answar Software Solution - 711-474447, Calcutta : Jain Computech - 2394374, Lalani International - 260441, 260442, 264819, Delhi : Ansun Electronics - 6414613, Antriksh Computers - 5
BPB Publications - 3325760, Computer Zone - 6227037, Computer Prof's - 6449960, First Computers - 2415743, Lotus Reprographics - 6418046, Omniscent Computers - 5
P. K. Traders - 5550656, Shivom Computers - 5512815, Softman Computers - 6483376, Vikmans Peripherals - 6429547, Goa (Mapusa) : Spectrum Software & Services - 2
Hyderabad : NetCom - 547618, Wisdom Marketing - 314338, 317789, Indore : M. K. Electronics - 435428, Jabalpur : The Computer Shoppe - 391102, Jaipur : MicroPlus Computers - 5
Computer Jyoti - 514107, Jalandhar : Software Solutions- 238476, Lucknow : Rakshit Computers - 240895, The Professional Group - 78313, Madras : Devraj Computers - 5
Moradabad : XL' Brain Computers-317769, Patna : Shree Sati Computers-659806, Surat : Nemji Services-426484, Vapi : Dynamic Computers-32645, Varanasi : Computer Shoppe - 3
Vijaywada : Andhra Computer Services - 431707, Unics Computer enterprises - 66936, 75064, 75034, Dhruva Systems - 5
Vishakhapatnam : Binary Information Systems - 5

DEALERS/DISTRIBUTORS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

VIJAINDER K THAKUR

Digitized by Arya Samaj Foundation Chennai and eGangotri

Publishing Dynamic Data On The Web

Databases evolve to keep abreast of the Net's voluminous growth

The World Wide Web has been in sharp focus in IT circles since VSNL introduced its Gateway India Access Service (GIAS) late last year. However, the Net has different things for different people. It varies from wholesome through myopic and, sometimes, even blind. The distortions evident from some press coverage remind us of the fable of the five blind men and the elephant.

It is estimated that there are over five million documents on the Net, and a deluge of data is incessantly pouring into the Net every minute. Knowledge and human endeavour yearn to be free, and technology has made this possible through the Internet.

As data volumes increase, it will become increasingly difficult to access them. And specialized tools will be needed to manage and retrieve data to keep response times within acceptable limits. Tools such as Oracle's Universal Server 7.3 are already available. Other vendors are to follow suit, and SQL servers may soon respond to Web queries as well as service requests from workstations. However, it's still too early to speculate what will finally emerge—a butterfly or a moth.

Over the next few months *Sequel* will focus on Web-related data management issues. Primarily we will discuss low-cost solutions and see how to set up a Web site to publish live data using a TCP/IP account and Windows 3.1. Later we will also look at what vendors have up their sleeves for the future.

PUBLISHING STATIC DATA

Once written to an HTML document, most data available is static. Suppose your company maintains a Web site and its Index page allows a visitor to obtain a listing of executives. To do so, an HTML link in the Index would point to another HTML document containing their names.

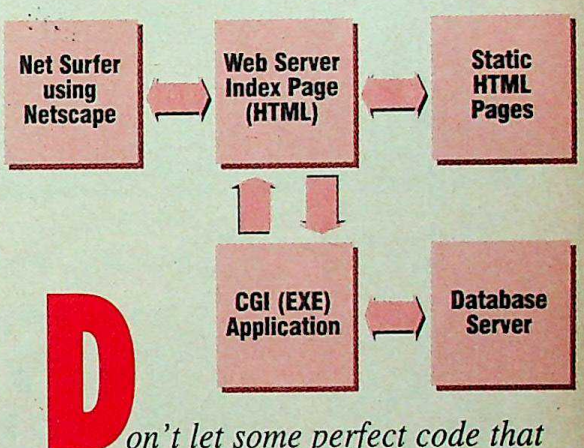
However, to ensure that visitors get up-to-date information, you would need to revise the page every time someone left or joined.

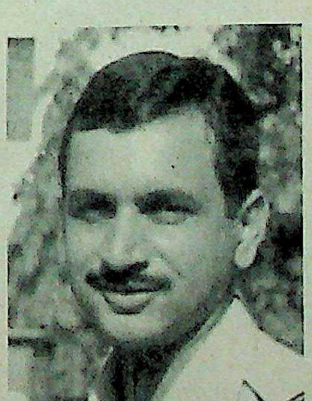
PUBLISHING DYNAMIC DATA

Most executive data is maintained using on-line personnel management systems (PIS). But wouldn't it be nice if the Index's link could query the PIS to get an updated list of executives. This is also known as publishing dynamic data and eliminates manual effort while ensuring that information is authentic. Dynamic data publishing is critical for sites that allow visitors access to structured data, such as stock prices and flight schedules.

The effort and cost of on-line time needed to search the archive is too high for a detailed look before posting a query. Consequently, efficiency drops as questions are repeated. Sheer volume in such cases needs dynamic data access.

The visitor frames and submits a query to the Web server. This converts the query into SQL and routes it to an SQL server. The retrieved information is then re-converted to HTML and returned to the visitor.





VK Thakur is a Delhi-based database and information consultant and runs his company Leading Edge Colutions. You can reach him via the COL forum of PCQ Online (11-6221734)

Don't let some perfect code that you see in Dr Dobb's Journal *or let a book by Al Stevens make you underrate your abilities*

An interactive Web site makes available dynamic HTML pages and its key element is the Common Gateway Interface (CGI). CGI defines how Web servers pass information such as queries or requests to executables, that can retrieve and return information to the primary Server. The CGI specification was originally written for UNIX with C and Perl as the programming languages. Available free at `http://hoohoo.ncsa.uiuc.edu/cgi overview.html`, CGI has been ported to other environments, including Windows.

Next month we will look at CGI in greater detail, especially Win CGI, to help you create interactive Web sites using Delphi and Visual Basic. ■

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Attention decision makers!

Still want to be steps ahead. Welcome to the Victory Multimedia technology zone. We are offering incredibly Fast **CD-ROM Drives**, 3D-STEREO quality **SOUND CARDS**, high tech **VIDEO CARDS**, reliable **CD-ROM RECORDERS**, high - speed Six Disc CD-ROM **CHANGERS**, high quality **3-in-1 SCANNER / FAX / COPIER**, ... for less than you ever thought possible. So with your dreams and our reliable, high - tech value priced Multimedia products success'll be yours.

AST COMPUTER
Authorised Dealer

For Further Details Contact

MEDIA TECHNOLOGIES INDIA LIMITED

H.O : 204, Bhandari House, 91 Nehru Place, New Delhi -110 019. Tel 646 8695, 6420117
Telefax : 642 7241, E-mail - D E L A AC4 7 @ G I A S D L 0 1.VS NL.NET.IN
B.O. : 24-A, Dadyseth House, 44, Cawasji Patel Street, Fort, Bombay - 400 001. Tel. 2853830

DEALERS:
Allahabad : LANSYS Computers (P) Ltd. Tel. 644330, 644473,642152, 640489. **Bangalore** : Premium Logic Systems Tel. 3339602. **Calcutta** : Unique Sales Agency, Tel. 275356. **Chandigarh** : Samson Software Technologies Tel. 690505. **Gorakhpur** : Sam Computers Pvt. Ltd. Tel. 33558. **Jallandhar** : The Computer Concept, Tel. 221637, 236989. **Kanpur** : Multi Business Machines Tel. 290986, 293738, 355731. **Lucknow** : Syber Systems & Solutions Pvt. Ltd., 386325, 76107. **Noida** : COMPUCOMM Services Tel. 522357, 558402. **Patna** : Graphic Traders Tel. 651740.**Udaipur** : Vardhman Computers Tel. 414543. **Varanasi** : Jwala Distributors Tel. 356338, 356319.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tower Of Babel Revisited

Has the programming language explosion ended

While cleaning my basement, I re-discovered *The Fundamentals of Programming Languages* by Jean Sammet course material for a compulsory second-year course for computer science students.

The first chapter contained a duction of the Tower of Babel from the 's cover. Many of the languages shown known today. But these are not all that has obliterated. Most fundamental texts not withstood the test of time.

language's quality was judged on 12 rtant criteria. These were a well defined tactic and semantic structure, reliability, translation, efficient object code, ortho- ality, machine independence, provability, erality, consistency with commonly used tions, subsets, uniformity and extensi- . But where are these criteria today?

well defined syntactic and semantic struc- is now taken for granted. And there is danger of producing an ambiguous or ill- ed language in syntactic or semantic ts.

liability was defined so that language ers could be designed to discourage or detect syntactic and logical errors. This worthwhile goal but it is obvious that grammers assign little weight to it. If this a was given priority, languages such as xBase would never have become so lar.

anslation speeds is longer an issue where languages are concerned. What does er is link speeds while building tables, particularly when designing for environments. Programmers can get truly ed by slow link speeds, but are unlikely itch languages on this basis alone.

icient object code will always remain rtant. The importance of this criteria is by the mind-boggling increase in CPU s over the past decade. Because of high speeds, the penalty of inefficient object is not as severe as it used to be.

rthogonality meant that the language d have only a few basic features, each of is separately understandable and free teractions when combined with other es. Nearly all programming languages thogonal. ADA failed perhaps because it orthogonality.

chine independence was a subject of before the PC became popular. Needless to say, in this case, conventional wisdom was totally out of touch with reality. The market did not want a standard language for different hardware; it needed standard hardware for all languages.

Provability implied a formal definition of the language's features to ease formal program verification. Unfortunately, this was difficult and this criteria died a quiet death.

Generality meant that all features of the language should be composed of different aspects of a few basic concepts. Although rarely mentioned it is nonetheless important even today.

Earlier, consistency with commonly used notations was important in computing with ALGOL different from Lisp and FORTRAN, but not so much today.

Many programming languages have not withstood the test of time and have vanished from memory

Subsets referred to the ability to use parts of the language without the whole. Today this is common with every language, and this criteria along with uniformity are now standard.

Finally we come to extensibility or the ability to define additional data abstractions and operators. The jury is still out on this one, but all object oriented languages are extensible by definition. COBOL and xBase are not, yet their popularity shows no sign of waning. The importance of this criteria will continue to increase.

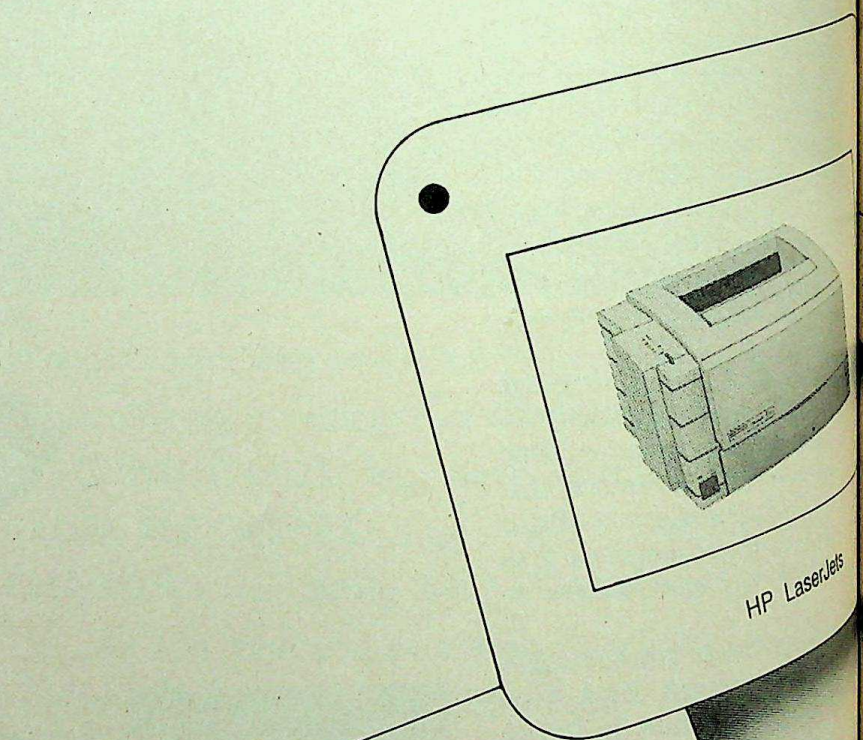
The bottom line—The programming language Tower of Babel is no longer an issue, but the GUI Tower of Babel is. ■

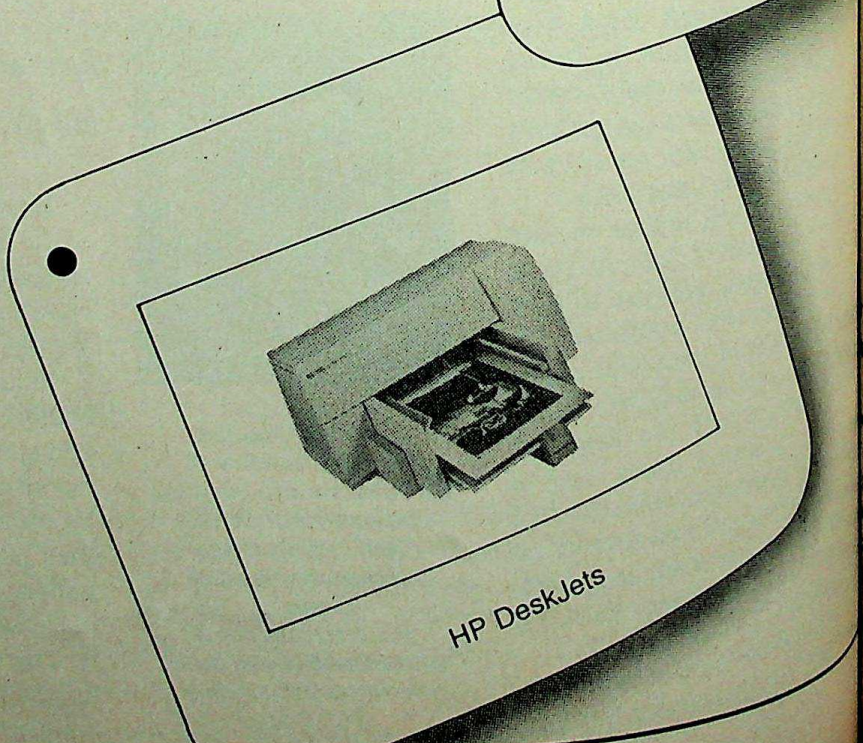
Gautama Ahuja is a contributing editor of PC Quest. He also owns and manages AHC Infotek, a Delhi-based turnkey software development company. You can reach him at sga%dartnet@uunet.uu.net or via the COL forum of PCQ Online

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

World Class Peripherals from Hewlett - Packard



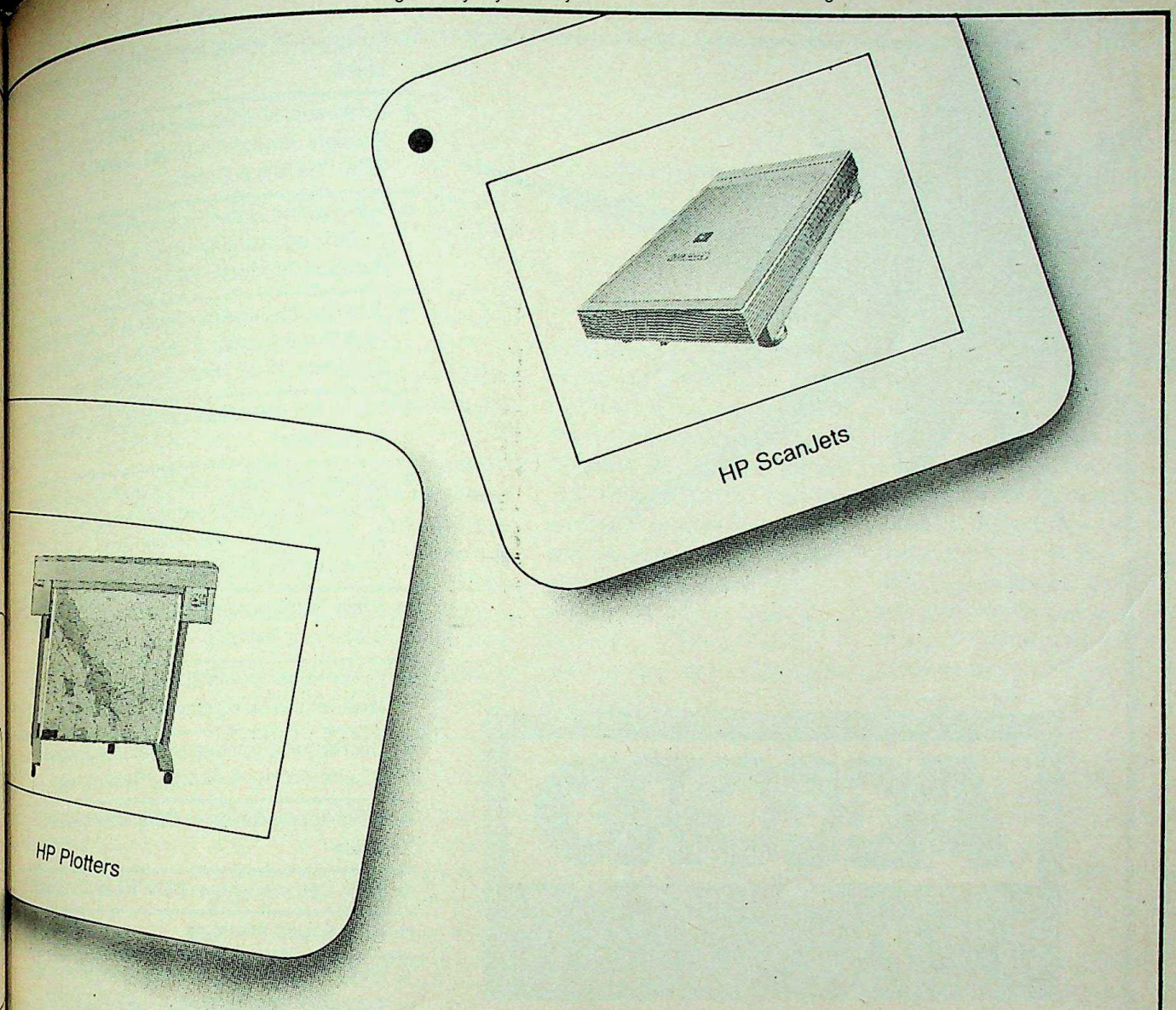


REDINGTON

HEWLETT PACKARD

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Backed by Redington's unmatched commitment.

HP AUTHORISED SERVICE PROVIDER
REDINGTON
HEWLETT PACKARD

the best prices, quick delivery and dependable service on HP peripherals call Redington today.

ington (India) Pvt. Ltd., Madras : Ph : 2353313-16. Fax : 2352790. **Bangalore :** Ph : 5538032-34. 859035. **Bombay :** Ph : 2832478, 2833470. Fax : 2873615. **Calcutta :** Ph : 2407447 / 565. 3898. **Delhi :** Ph : 6923224, 6919600. Fax : 6822854. **Hyderabad :** Ph : 810106. Fax : 819134. **ington Service Centres : Madras :** Ph : 2353491 / 2. Fax : 2352790. **Bangalore:** Ph : 2868217 / 8. 859034. **Bombay :** Ph : 4960796 / 7. Fax : 4963245. **Calcutta :** Ph : 2404224 / 334. Fax : 2408898. Ph : 4842713 / 4. Fax : 4601421. **Hyderabad :** Ph : 819125, 810109. Fax : 819134.

For more details fill up the coupon or attach your business card, and mail it to :
Redington (India) Pvt. Ltd., SPL Guindy House, 95, Mount Road, Madras - 600 032.

Name : _____

Address : _____

_____

Pin : _____ Ph : _____

ULKA - 70500

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NEW VERSION 4.1

ACCORD

COMPREHENSIVE ACCOUNTING SOFTWARE

General Ledger ◆ Sales & Purchase
Inventory ◆ Manufacturing ◆ MIS

- Completely On-line & Integrated up to Balance Sheet
- Comprehensive Document Printing - Vouchers, Receipts, Payment Advices, Sales & Purchase Bills, Challans & Orders
- Full featured Order Processing with fully/partially outstanding Order Register for Purchase/Production Planning
- Opening Documents - Sales & Purchase Bills (with Money and/or ST Form Due), Receipts, Payments, Debit Notes & Credit Notes
- Bill by Bill Adjustment among all types of Documents
- Special MIS Reports for Transaction & Party/Product Analysis, Form Analysis, ABC Analysis, Cash Flow, Funds Flow, Interest Calculations, Expenses Audit
- Sales Tax Register with user selected Columns & ST Form Analysis
- Query Reports with ZOOM down to Document level with NEW Voucher Add/Edit/Delete feature
- User defined printing formats for Sales Bills (Excise Billing) & Account Confirmation
- NEW Appropriation of Other Charges into Item Value
- NEW Comprehensive Bank Reconciliation
- NEW Export Invoicing
- One-To-One, Many-To-One & Many-To-Many type BOM and Production Log entry with Rejection & Production Loss computation to give powerful Contractor-wise Analysis & Production Centre Analysis
- NEW Multiple Godown Inventory
- NEW Multiple Currency Accounting
- Fixed Assets Reporting
- Intelligent Transaction Tracking & Renumbering by Voucher Series
- Compressed Backup with verified write & diskette signature
- Extended Narration of 7x35 characters with NEW automatic Word Wrapping
- NEW Reduced Conventional Memory requirements by in loading high memory
- True Multi-User (LAN) Version available on DOS 3.3 & above
- Multiple Concurrent Financial Periods with inter-period utilities
- NEW Data Freeze feature to secure checked Vouchers against modifications
- NEW User Access Rights for individual Options

EDP CORPORATION

216/2H, AJC Bose Road, Calcutta 700 017
Phones : (033) 240-8776, 247-7147 Fax : (033) 240-8776
N-11 Market, Greater Kailash I, New Delhi 110 048
Phones : (011) 646-9983, 641-2345 Fax : (011) 647-6983

Dealers : Ahmedabad, Bombay, Calcutta, Cochin, Goa, Guwahati New Delhi, Patna, Raipur, Ranchi, Siliguri, Surat, Vizag and Kathmandu

DEALERS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AM CD TO CD-ROM

response to a query from ajra and P Vishnu in *PC* , September 1995, you ioned that ordinary CD ers could be used as CD- drives, and that a par- r model of the Sony kman could work. I've pur- ed a DiscMan D-137CR MAC. Can you tell me where can I get the re- ed cables and cards, and much will it cost. I have a X2/4 MB/540 MB.

Harsh Aggarwal
New Delhi

Nehru Place or Lala Lajpat rket in Old Delhi. You could ntact Sony India for more rmation on the possibilities rting the necessary cables prove unavailable in India.

L AND ITS LICATIONS

n doing my postgradu- tudies in Computer Ap- ons from Bombay Uni- y. I'd like to know more Hypertext and its appli- s. What is HTML?

Anup Narang
Mumbai, MH

pertext is a method to link with one another across ents. A good example, is s Help, where a click p a dialog box or takes a different file. It is also create home pages on . HyperText Markup Lan- (HTML) is a standard prepare Web pages. It format text, specify links pages, and insert graph- too can be linked with ocuments. HTML is quite learn, and there are lots , including one in the s series (see Web Lan- PC Quest, February

CAD YOU HELP ME

✉ Is AutoCAD LT available in India. In what respect does it differ from AutoCAD. Is a CAD package with 3D graphics, and AutoCAD features available for Rs 40,000 ?

Shailendra Rane
Mumbai, MH

AutoCAD LT (Lite) is unavailable at present but there are other CAD apps close to or within your limit. AutoCAD 11/DOS costs Rs 46,500 and DesignCAD 3D/Win 95 costs Rs. 25,550). You can also try Visio Technical to prepare your drawings and save them to AutoCAD format.

DESIGN BLUES

✉ I have a 386 and I want to know which app will help me to make monograms and what else is needed. I have packages such as Lotus 1-2-3, Foxbase, and word processors.

Anupam K Varshney
Aligarh, UP

You don't need any special hardware, your 386 will do if it has at least 4 MB RAM. There are plenty of DOS and Windows apps such as MS Publisher, Print Shop Deluxe, CorelDRAW!, and PageMaker to design cards and logos. The PCQ Spring 96 CD-ROM contains a shareware app Cards and More. Although you have not specified your word processor, Word for Windows can do an excellent job.

FOXPRO PROGRAMMING

✉ I would like to know if there is any function in FoxPro 2.6 for Windows which will allow me to create Windows-like message boxes. Also, how can I create standalone executables in FoxPro 2.6 for Windows ?

Pramod Kumar P
Coimbatore, TN

To create Windows-type message boxes in FoxPro for Windows, use the function library FOXTOOLS.FLL supplied with FoxPro. To create a standard Windows OK box with the title "OK Window Demo" and the message "Please Press OK", your program code should read:

```
mtext="Please Press OK"
mtitle="OK Window Demo"
micon=0
set library to sys(2004)+"-
foxtools.fll"
=msgbox(mtext, mtitle, micon)
set library to
```

Varying the value of the variable micon to 1 gives you a Windows OK/Cancel box, a value of 2 gives you Abort/Retry/Ignore. Thus you can go up to a value of 5. If you're really interested, get hold of The FoxPro 2.6 Codebook. It has lots of tips like this, plus code. To create standalone executables with FoxPro, you need the more expensive Professional Edition.

BAD COMMANDS ARE TOO BAD

✉ According to you, to change the "Bad command or file name" you have to open COMMAND.COM in Norton Diskedit (earlier versions of NU). But I don't know how.

S Kishore
Nandyal, AP

NU DiskEdit (DE) prior to Ver 7 has this feature. Select the file and then use Tools Find to search for the string 'bad command' while making sure that Ignore Case is on. Once the string is found, check the Tools Configuration dialog to disable the Read Only check box. Now use View Hex to switch to Hex mode and press Tab to enter the text window. Go to the section with "Bad command or filename" and type over it making sure to enter the same number of characters.

MOVING UNIX

✉ I have a 486SX/4 MB/540 MB on which I have installed UNIX. Now I have a new 486DX2/8 MB/1 GB and want to use UNIX on this too. But the problem is the PCs are at different locations and it is not possible to use my new PC as an extended terminal. It is necessary to load UNIX on my new PC, but I don't know how.

Please tell me how to transfer the UNIX system on floppies from my old PC and load it on the new one.

Miki Patel
Ahmedabad, GJ

Take your original UNIX floppies and use them to load UNIX onto your new machine. Alternatively, get a tape drive and backup your UNIX system directory to it. Take this tape and copy it onto your new PC. You could also try the tar command to archive your current system to floppies and use the same command to transfer UNIX onto your new system.

Alternatively you could load Linux, the world's largest installed freeware, from the PCQ Spring 96 CD-ROM onto your machine. Linux can be loaded onto a DOS drive and gives you the best of both worlds. Plus there is a lot of free software for LINUX including X-windows.

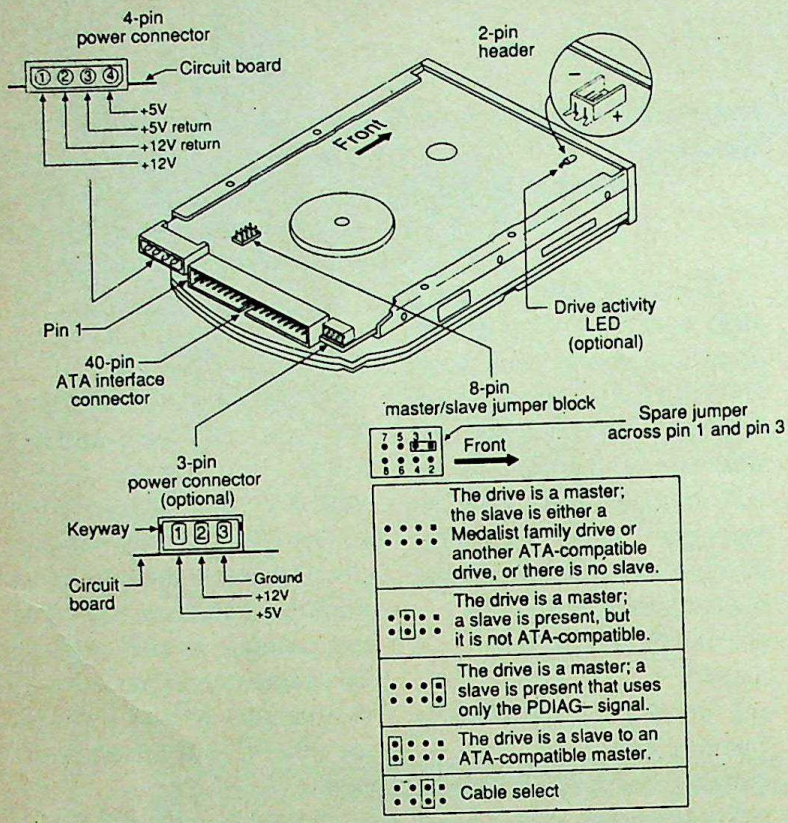
THE DISK SIZE BARRIER

✉ I wish to know about the 528 MB barrier experienced by DOS/Windows. What is it and why is it there?

PCQO: Mahender Singh Yadav

CC-0. Mumukshu Bhawan Varanasi Collection. http://cc.gangotri.org

Digitized by Arya Samaj Foundation Chennai and eGangotri



The so-called 500 MB+ barrier on DOS/Windows is a result of disk interface, BIOS and DOS problems. Early disk controllers were limited to 16 heads, and the PC's BIOS disk interface (INT 13) was meant only for floppy drives. Later, when this was upgraded to support hard disk drives and allows 256 cylinders, 256 heads, and 256 sectors at 0.5 kB/sector that add up to about 8.4 GB. This should have been okay, except that there are a few hard disks with more than 16 heads and many with more than 256 cylinders.

There's more—the hardware register that stores the sector number was partially used for storing cylinder values that leaves you with a maximum of 1,024 cylinders from 0 to 1,023 (the largest value you can represent with 10 bits—8 from the CH and 2 from CL). This limit can be bent by using a third-party utility such as Disk Manager, EZ Drive or a BIOS chip on the disk interface board but you could lose compatibility. So when you multiply all the numbers involved here, 1,024 cylinders limited by the BIOS multiplied by 16 heads (early PC disk controller limit) multiplied by 63 sectors/track (BIOS limit—only six bits are left in CL after 2 are needed to keep count of the number of cylinders) multiplied by 0.5 kB (software), you get a limit of 504 MB.

EZ Drive is bundled with Seagate hard drives and is also available separately. It allows you to circumvent the 504 MB barrier by taking control of the computer before DOS boots, translating the actual drive geometry to one acceptable to DOS/BIOS. But with EZ Drive, you can't access your hard disk if use a standard DOS boot floppy—you need a special EZ Drive boot floppy created during installation. LBA (Logical Block Addressing) is a feature supplied with the disk I/O controller and in some cases can be set using jumpers. LBA bypasses DOS's objections to drives larger than 504 MB and rearranges the disk's geometry to show more heads and less cylinders to DOS/BIOS.

CAMERAS AND COMPUTERS

✉ We want help on devices available for attaching a 35 mm camera to a PC for making 35 mm slides from software such as PowerPoint, Freelance Graphics or Harvard Graphics. Please advise us on suitable devices that we can use.

PCQO: Abhijit Barua

Using a camera with a monitor is not worth it, because the distortion, reflections, and general lack of clarity are severe. You need instead a "film recorder", a device meant for just such applications. Companies that make these include Mirrus, Agfa and Nikon. These devices have inside them a flat, extremely high-resolution CRT-type device, and an optical system with mounted 35 mm film transport (basically, a camera; some let you mount a conventional SLR camera). They connect to a normal VGA port and let you shoot off slides on 35 mm (C41 or E6) film. Some DTP bureaus in most cities in India offer such services for a fee.

✉ We have a 486SX/4 MB RAM and want to know if we can use our PC for still photography.

Please let us know in detail about the equipment that we have to add and also whether there is any software for taking photographs, manipulat-

ing them and print... Please send details of ... ers of these equipm... software.

Bansal Raj, Trade ...

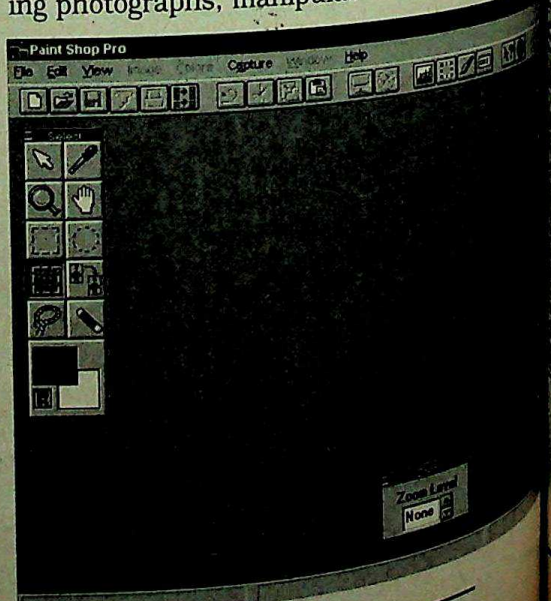
There are digital cam... backs available (see ... Forum, PC Quest, April ... Two examples are thos... Logitech (via Vintron in ... Apple Computer. You ... use a scanner to sca... graphs and other visu... digital format. As for p... color, a good color ink-j... will do for draft work (s... story in this issue for m... tails), but only a few p... ing special paper are s... anything like serious p... put. Among them are d... mation printers, not re... this issue.

SCREEN CAPTURE UNDER WINDOWS

I'm looking for a utili... ture the working s... Windows and save ... files so that I can use ... preparing my docume... anyone suggest such ... please?

PCQO:

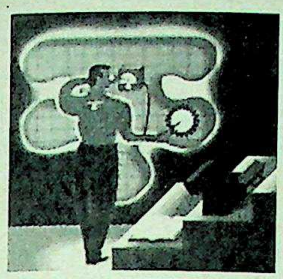
Use PrintScreen ... the desktop scre... Alt+PrintScreen for ... window, one image ...



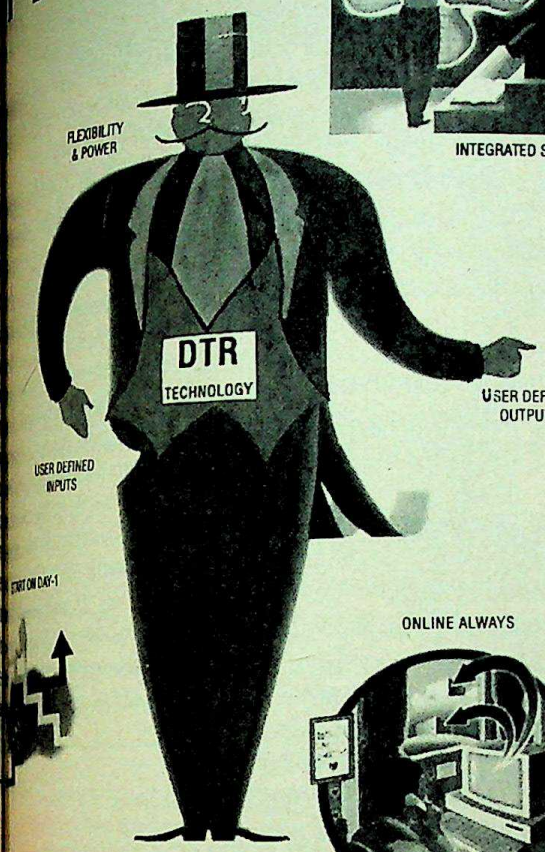
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INTEGRATED SOLUTIONS THAT DRIVE BUSINESS OF TODAY!



INTEGRATED SYSTEMS



WORKHORSE

INTEGRATED BUSINESS SYSTEM

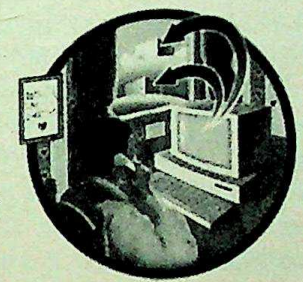
India's ONLY business system with focus on INVENTORY. It can handle manufacturing / trading inventory, costing, invoicing, ordering etc with ease! Its accounting module is more powerful than most so-called accounting packages!
User-definable inventory item, transactions and documents!

VETAN

OPEN ENDED PAYROLL SYSTEM

India's ONLY integrated PAYROLL system with inbuilt capacity to handle I. Tax estimation, deduction with Form 16 & 24. Handles loan & incentive calculations, Arrears, PF, Bonus, Gratuity, etc. with ease. Any number of Pay-heads with user configurable formulas can be created.

ONLINE ALWAYS



- Systems based on state-of-the-art DTR technology. This gives the user undreamt of power and flexibility. It ensures that the systems have capacity to remain in sync with ever-changing needs.
- Available in Stand alone / LAN, DOS/WINDOWS versions!!!
- Systems are priced in-line with non DTR / Non Integrated systems.

SOFTLINK (TM)
EXPORTS

310, Kharek Bazar, Mumbai - 400 009. **Tel.: 343 0148 / 343 9545 / 72 / 342 1268. Fax: 415 3054.**

TRIBUTOR: Gujarat - Nikka Computers, Baroda. Ph.334796.
LERS: *Bombay* - Astromac Computer, Ph. 8066045. Kolte Computers, Ph. 6140520. On Track, Ph. 6480074. Soft Tech sultants, Ph. 2675958. Prime Systems, Ph. 5167181. ***Bangalore*** - Complete Solution INC, Ph. 6676177. M & M Marketing, 2256298. ***Madras*** - Adrisc Computing Solution, Ph. 4349487. ***Ludhiyana*** - World Link Computers, Ph. 36944. ***Delhi*** - Kernal ems, Ph. 6447348. ***Goa*** - Professional Computer, Ph. 250701. ***Ankleshwar*** - Shrofftech, Ph.24005.

DIPLOMA IN COMPUTERIZED BUSINESS SYSTEM (DCBs)

TC enquiry welcome from existing training centres conducting the popular DCBS (Diploma in omputerized Business System) course. A first ever month diploma course that teaches total omputerised business from accounts to inventory & dering on an Industry standard system.

OURSES ALREADY BEING CONDUCTED IN OVER ATC's ALL OVER INDIA.

DEALERSHIP ENQUIRY WELCOME FROM THOSE WITH SOFTWARE SUPPORT EXPERTISE. PREFERABLE: SOFTWARE DEVELOPERS. UNHEARD DEALER MARGINS.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

the clipboard and then save it as a .PCX or. JPG file. For this you can use PaintShop Pro—that's an excellent shareware for such applications. PSP lets you capture the whole screen, a particular window, a rectangular area of the screen and so on. You can then manipulate, edit or distort the image as you want. You will find this full-featured shareware package in the PCQ Spring CD-ROM in March 96 and on PCQ Online in the PUB Forum.

PCI VS VESA

✉ I was quite confused when I wanted to upgrade my computer and the dealers kept asking me whether I wanted a PCI or VESA bus. So I'd like to know what a PCI bus is and what's the difference between them, and which should I get?

PCQO: Amit Agarwal

ISA is a 16-bit standard popularised by 386 boards. VESA and PCI are 32-bit formats; VESA is older and slower, PCI faster, and now standard for Pentium systems. A PCI network or hard disk controller, or a SCSI card can give you significantly higher throughputs than an ISA or VESA card. For apps where data bus throughput is not a spec, such as for most sound cards, you can put the add-on card to the 16-bit ISA slots on the motherboard.

If you upgrade to a Pentium, you will have to get a PCI system—in fact, they don't come any other way today. —Ed

MEMORY MANAGER TROUBLE

✉ I'm having problems using the EMM386 memory manager supplied with DOS 6.2. Whenever I enter any command at the DOS prompt, the system hangs after displaying "EMM386 Privileged Operation Error #00. Deactivate EMM386 and Continue (c) or Reboot (r)?" I've inserted a REM before EMM386 in my CONFIG.SYS file. This problem started after I tried to use Norton Commander. How can I make EMM386 work properly again?

PCQO: Sunil Thulasidasan

Re-copy EMM386.EXE from your original DOS floppies (you'll need to expand EMM386.EX_). If it still doesn't work, you could have a localized memory error, in which case you need to perform a full check on your RAM (enable all checking in your Setup.)

Incidentally, you don't really need to use EMM386.EXE, most of the time. You only do when you need extra conventional memory for DOS apps, and need to run DOS apps in higher memory. Or when you want to allocate the EMS (expanded memory) to some older apps (in the latter case, Windows itself would do the same thing just as well). So if you make sure that you have loaded HIMEM.SYS and have the statement DOS=HIGH after it in CONFIG.SYS, you'll be fine.

CHECKMATED BY IAVT

✉ I am a licensed user of IAVT Ver 3. However, when I installed IBVC, its Boot Sector Virus Indicator, I lost one of my existing software packages, CHKMATE (from Midpoint Software). What actually seems to have happened is that CHKMATE makes certain installation changes in the Boot Sector and when I installed IBVC, these changes were overwritten and CHKMATE got un-installed. However the problem worsened because CHKMATE provides you with just one installation count and I am unable to re-install it. As student I can't let my resources go down the drain. Please tell me whom to contact.

PCQO: Puneet Nanda

Checkmate doesn't actually get un-installed. You can recover your installation using the second floppy. As both CHKMATE and IAVT make changes in the Master Boot Record (MBR), a copy of the original MBR is written to CHKMATE's second diskette. You can recover this MBR from the second diskette and return your install count to zero and install again.

RAR(E)

✉ What is RAR? How do I use it? Where can I find it?

PCQO: Abhay Pradhan

RAR is a freeware compression program of Russian origin, developed by Eugene Roshal. It is considered to be among the best of today's compression programs. RAR was also the first to include multimedia compression and packs .BMP and .WAV files tighter. Considered even better than PKZIP, it's fast, and gives you a familiar Norton Commander-like interface. It is available on major BBSes in Delhi and on the Internet.

OFFICE PROBLEMS

✉ I have a 486/4 MB/260 MB. When I try to open FoxPro for Windows 2.6 using the MS Office Toolbar, I get the message "Cannot find FOXPROW.EXE. Please start the application another way. While the application is running click on the toolbar button or choose the menu command again." I tried this, but it only works for the current session. The next time I start work, the problem reappears. Sometimes FoxPro also reports "Insufficient memory" when I try to open it.

Arun KS
Bangalore, KT

Right click the Toolbar and click Customise. In the dialog box, select the FoxPro option and click on Edit. Now click Browse

to find the physical [illegible] FOXPROW.EXE (wher[illegible] in your \FOXPROW [illegible] When you locate the file [illegible] and click OK till you [illegible] Toolbar. Clicking the Fo[illegible] will start the system. If the [illegible] lem continues, check [illegible] MSOFFICE.INI file in yo[illegible] dows directory is not [illegible] tected, or corrupted. A[illegible] sufficient Memory", use [illegible] Memmaker utility to o[illegible] upper memory, or en[illegible] you';re loading DOS hig[illegible] your Windows Virtual [illegible] Your swap file should be [illegible] nent with a capacity o[illegible] double available RAM. [illegible] able, activate 32-bit file [illegible] access, for more speed [illegible] dows with MS Office is [illegible] on a 486 with 4 MB. U[illegible] your RAM to 8 MB.

✉ I have a 386DX[illegible] 270 MB and use N[illegible] 3.11, MS Office 4.[illegible] sional with DOS 6.22[illegible] mary command proc[illegible] NDOS. Each time I t[illegible] MS Word or Power P[illegible] a message: "Applica[illegible] ror. Insufficient memo[illegible] this application. Q[illegible] more Windows ap[illegible] and try again." The [illegible] occurs even if have [illegible] applications open. As[illegible] I double-click my Of[illegible] icon, I get "Error in [illegible] tax, Top level. Bad S[illegible] sion field; Setup Er[illegible] cessing Top level [illegible] failed." I recently got [illegible] to register Server [illegible] opened Paintbrush [illegible] execution continued [illegible] with Object Packager [illegible] the same message [illegible] cation crashes.

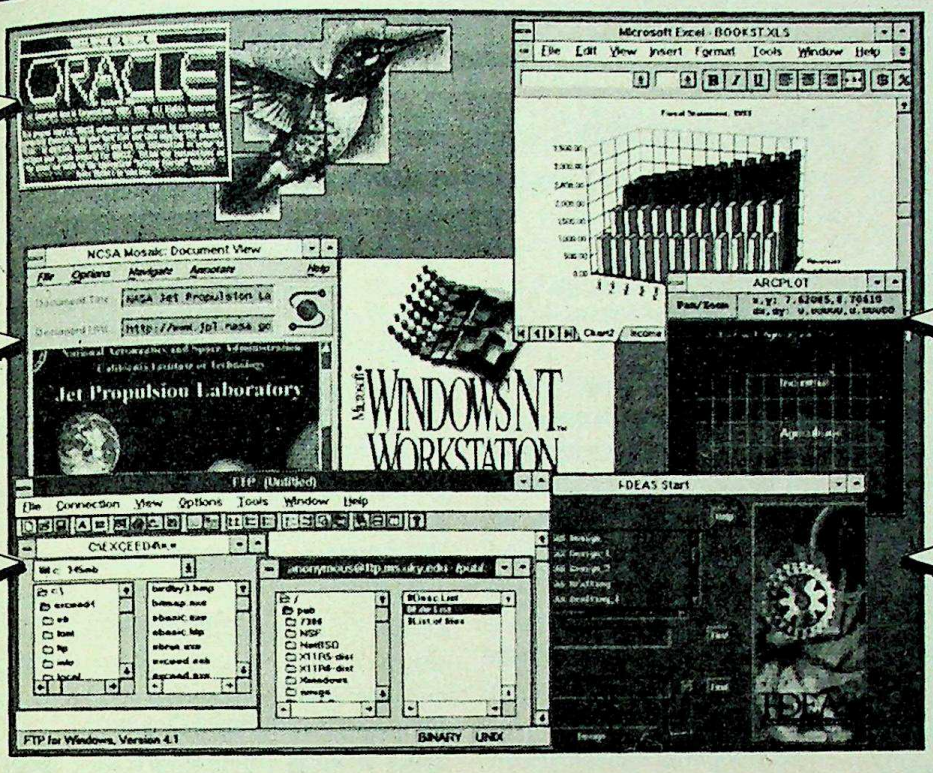
I do not have a [illegible] and have tried r[illegible] Office after remov[illegible] my TSRs yet the [illegible] persist. I have [illegible]

(Continued on [illegible])

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Integrate UNIX Power with PC Flexibility



Access ORACLE, MOSAIC, SYBASE, IDEAS, VISUALA, C++, MOTIF, HWM, VISUAL and BASIC *Simultaneously* on a PC with

Exceed

The largest selling PC X Server worldwide.

HUMMINGBIRD COMMUNICATIONS LTD.

xceed is the product of HUMMINGBIRD, the undisputed chnology leader with the largest market share worldwide.

ow, access all your multiple UNIX applications from ywhere in your network simultaneously on a PC.

e range of Exceed PC X Servers.

- **Exceed 5 for Windows 95**
  - PC X Server for Windows 95
- **Exceed 5 for Windows**
  - PC X Server for MS Windows
- **Exceed 5 for Windows NT**
  - PC X Server for Windows NT
- **Exceed/Xpress for Windows**
  - PC X Server over serial lines
- **Exceed/W-MDK**
  - OSF/Motif Toolkit for Development of X application
- **Exceed/NT-XDK**
  - X Development kit for Windows NT
- **Exceed/DOS**
  - PC X Server for MS-DOS
- **Exceed/OS2**
  - PC X Server for IBM's OS/2

xceed is a registered trademark of HUMMINGBIRD COMMUNICATIONS Ltd.
copyrights, trademarks and tradenames are the property of their respective owners.

Exceed advantages:

- Share your UNIX resources across the network.
- Leverage your existing PC investment.
- Heterogenous interoperable computing environment.
- Maximum returns from your UNIX investment.

Exceed is brought to you by

Logix

MICROSYSTEMS LTD. Master Reseller

P.O. Box No. 845, Bhramalingeswara Complex,
493/3, Airport Road, Bangalore-560 008.
Tel: 080-527 8439 / 526 0127 / 529 6532, Fax: 080-526 3429,
email: 72102.2056@compuserve.com.

LOGIX provides you complete sales and technical support for installation of Exceed on all platforms. LOGIX also provides training on X Servers.

sk for a FREE DEMO DISK* TODAY

AX/MAIL information about your UNIX systems, PC network nd applications and qualify for a free demo disk.

Dealership Enquiries Solicited

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LINUX Q&A

News and advice on the Linux operating system from PCQ Online

✉ That is a pretty old Linux you've got on the PCQ Spring 96 CD-ROM. Version 1.2 is more than a year old. I was looking for at least 1.3.20

Deepak Mehta

Do you really think that a magazine as progressive as ours would hand out old stuff? Kernel 1.2.13 is the last stable kernel and is used as a reference point. I just installed Linux on four machines—all off the PCQ Spring 96 CD-ROM. All with kernel 1.3.20 which is very much on the CD, too.

The point is that to get you up and going, the Slackware install uses the stable 1.2.13 kernel. You can then go and compile the 1.3.20 kernel. Just make sure that you install the 1.3.20 kernel sources.

One more thing. I have faced some problems compiling stuff under 1.3.20 because the kernel sources have changed their directory layout. You won't face any problem with 1.2.13. Still it's nice to have an updated Linux—it handled my gigabyte Seagate drive without requiring too many tricks.

PK Roy

✉ I installed all the X-packages. And I've been trying to save my workspace (I think it's on the utilities menu) in Open windows. I get a failure message saying it isn't possible because "owplaces" doesn't work. So I took a look at owplaces and found it calls up xtoolplaces. And xtoolplaces isn't installed anywhere. How can I save my workspace in Open windows?

You need to install xtoolplaces and libX11.so.3.1.0. They are missing in the PC Quest distribution: I've uploaded these binaries into the PCQ Linux forum of PCQ Online, in a tar file with the two gzips inside. Un-tar, unzip them.

Now login as root and put the xtoolplaces file in /usr/openwin/bin.

Get into the /usr/X11R6/lib directory and copy the 320kb file libX11.so.3.1.0 into that directory. Then type

ln -s libX11.so.3.1.0 libX11.so.3

to link calls to libX11.so.3 to libX11.so.3.1.0 cd to the /lib directory and type the same statement once again.

Then at /lib type:

ln -s /usr/X11R6/lib/libX11.so.3.1.0 libX11.so.3

And that's all, really.

Pawan Jaitly

✉ We have been using Linux version 1.2.3 on a Pentium/90 MHz 32 MB 1.2 GB SVGA system since Jan 96 and it works *great*!! In fact we use its Seyon package to access PCQ Online. We would like to get in touch with other Linux users.

I tried the fix for X-Windows given above and it does *not* work. I am using a different distribution of Linux 1.2.3. Still it ought to work. Any suggestions?

Niraj Upadhyay

It should work, because I picked it up from version 1.2.3. Try starting Open Look with the openwin command rather than startx?

Pawan Jaitly

Yes, I start Open Look with the openwin command. Openwin looks for a file ".openwin-init" in the home directory which can contain commands like "toolwait cmdtool -C -fg black -bg red -font 10x20" "toolwait xfm" "xterm -fg yellow" etc. But I'm still stuck with it.

Incidentally, the Open Look window manager is not as robust as that on other machines like Sun (we have two SparcClassics with Solaris 2.2 OW 3.1) and is problematic. For example, it unceremoniously throws you out of openwin (with appropriate message) if there is a syntactical error in your /usr/openwin/lib/openwin-menu or ~/.openwin-menu file. However, still worse is the fact that some errors in these files just hangs the system.

"Save workspace" didn't work previously on our Linux installation. Finally it turned out that owplaces/xtoolplaces used to put in illegal command-line arguments into ".openwin-init". We manually edited .ope to remove these helps.*

Niraj Upadhyay

The default kernel installed with Linux is definitely not optimized for your system. To get best performance, you should recompile the kernel. Here's how:

```
cd /usr/src/linux
make config
make dep
make clean
make zImage
cd arch/i386/boot
cp zImage /
cd /
mv vmlinuz vmlinuz.old
mv zImage vmlinuz
sync
sync
reboot -n
```

The difficult parts are the drillion questions asked during "make config". Here are a few pointers:

** Most defaults work fine, so you can just press <enter>*

** Pay attention to things like CD ROM drives though. Select the correct one for your system and not any other.*

** Network cards: Ensure you enable Networking, and accept all defaults, except card type. Most of you will have NE2000 clones as network cards. Answer no to all cards except "ISA cards", which you should answer yes to. Now again answer no to the option for NE2000 if it shows up - mark that with an N.*

** Remember that all the choices you make are recorded so that next time you want to recompile/reconfigure your kernel, the choices you made last time will be the default this time.*

Ashish

✉ Whenever I try to run X-Windows, I get an error message that my mouse is incompatible. I have a Microsoft point mouse and in setup I've defined my mouse as a Microsoft serial mouse. But X-Windows still doesn't run.

Vivek Chopra

Is the mouse connected to the serial port (9/25 pin) or the PS/2 port (small round one)? If it is the latter, you have

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...mouse and need to config-...for that. Else, plug in another ...use that is MS compatible ...gitech or even Microsoft) and ...if things go right. If it does, ...Ball-point is kaput; if it ...n't, then your serial port is ...d.

Atul Chitnis

...I have a 486 DX2/16 MB ...M system and Win 95. The ...tem is setup for running ...ter Windows only. While ...ning the Linux programme ...recommended in your is-... I am getting the message: ...o BIOS32 extension ...sent, sorry this version ...ds this extension". When I ...ed to reload it, the system ...ed to recognise my CD-...M drive.

SK Aggarwal

The message that you're get-...implies that the Linux kernel ...t yet optimally configured for ...r machine. We are covering ...aspect in PCQ very soon.

As for the non-recognition of ...r CD-ROM drive—please ...e sure that you select the ...kind of drive during the boot-... creation. As some drives ...re special parameters that ...may not have supplied. For ...er information about Linux ...se try the Linux FAQs on PCQ ...ce (011-6221734) and the ...(080-3341137) BBSs free of ...ge.

Atul Chitnis

...d I switch to a different ...al console when I am run-... X-Windows on one vir-... console (using Ctrl-Alt-... I can't switch back to the ...al X-Windows display. ...er, I get a text display, ...have to abort the process ...ill it to get access to that ...ole. Is it OK?

Rajesh Thukral

There's nothing wrong. X-Win-...takes over the next pos-...virtual console. Since Linux grabs consoles 1-6, X-Windows is on 7, so try plain old Alt-F7.

Atul Chitnis

You need to have a VC with no login: process going. Open your .login or inittab or something and comment out one of the getty lines. For instance, on my set up I start up X on VC1, have VC's 2-6 spare, and VC7 is the X display itself.

Pawan Jaitly

If you have x number of virtual consoles then press Alt-F(x+1) to get to X.

Vipul Ved Prakash

✉ Neither can I run DOOM! nor xdoom. I get a message "can't open /dev/dsp". What's up?

Also I have a 15 MB Linux swap partition, but to enable it, I have to manually "swapon /dev/hda4" each time. How do I make it enable it automatically. I can't find a .login or .profile file anywhere!

Girish Karira

The first problem, possibly, because you lack access to your sound card— please check permissions. Try running an .au file on your machine. I've uploaded a short excerpt onto the Linux online forum—pj.au. Type: cat pj.au > /dev/audio (or maybe /dev/au). If you can hear it on your speakers then Linux should handle Doom sounds OK. Also look up RTFM (or FAQ if any).

To solve the other problem, look for a "profile" file, not .profile—profile is the one for all users. cp it to your home directory and put a . in front. And alter to taste. (You should mount the swap file system via your /etc/rc and /etc/fstab file and not via your own .profile file, or the system profile file. As root you can mess around with /etc/rc and /etc/fstab, and do personal/non-root stuff with .profile.)

Pawan Jaitly

Put it in one of your rc.(x) files. I enable swapping in my rc.S file.

Vipul Ved Prakash

✉ Every time I replace a CD-ROM in the drive, I have to unmount and remount it to make it display the directory of the new CD-ROM. Is this normal? I faced the same problem with my FDD too. Is that OK? How can I use an FDD for copying Linux files onto it?

Rajesh Thukral

Yes, you have to mount/unmount the CD-ROM device, because this is the way UNIX operates. And the similar solution applies in case of FDDs also.

I use this small shell script called chcd to ease the task:

```
#!/bin/sh
cd /
umount /cdrom
echo -n CD Unmounted,
press Enter to remount
read
mount /dev/sonycd /cdrom
-t iso9660 -o ro
echo Done.
```

Note that this is specific to my Sony drive—you will need to modify the script for your own drive.

However, I stick to DOS formatted disks and use the MTOOLS (mcopy, mdir, etc.) to use the floppy diskettes. To format a floppy and copying Linux files on to it run "man format".

Atul Chitnis

✉ While installing Linux in our computer we have been facing the problem of mounting our Sony CD-ROM (CDU55E) as we couldn't find that option during the installation.

Division of Biostat and Med. Information.
UCMS DU

Though there are four Sony CD-ROM drives listed as supported by Linux yours isn't one of them. However you can make a directory on your hard disk, say, "slackware". Then use the Xcopy command under DOS to copy the disk sets from the CD-ROM to the "slackware" directory and then run the Linux setup program (in the dialog box tell the program to install it from your hard disk.

Prashant L Rao

✉ Can two severs running on Linux be connected so that, from one server a user can log-on to the other? Can I connect a Linux server to the Novell NetWare 3:12/4.1 server?

Sushil Sharma

Linux can be configured as a SLIP Server. If you have a machine that is on a network and you'd like other users to dial into, and provide network services, then you will need to configure your machine as a server. If you want to use SLIP as the serial line protocol, you can use sliplogin.

Sliplogin is a program (download from sunsite.unc.edu/pub/Linux/system/Network/serial/sliplogin-1.3.tar.gz) that you can use in place of the normal login shell for SLIP users that converts the terminal line into a SLIP line. It allows you to configure your Linux machine as either a static address server where users get the same address every time they call in, or a dynamic address server where users get an address allocated for them which will not necessarily be the same as the last time they called.

As far as connecting a Linux server to NetWare, it's easy if you have the Novell NFS Daemon code. Just NFS mount the Novell volume that you wish to use. Else, if you have a spare PC, you can run Stan's Own Server program on it. First, configure the PC as a Novell workstation with maps to the directories you want to NFS mount, then run SOS, and export those drive maps. SOS is available at spdcc.com:pub/sos/sossexe.zoo.

Prashant L Rao

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

(Continued from page 32)

VX2000 for possible viral attacks but found none. So please tell what to do and why this problem occurred.

R Karthikeyan
Madras, TN

If you have DOS 6.22 try and use its COMMAND.COM; it is newer than NDOS. Besides, Windows can be picky about command processors such as NDOS. Your installation of MS Office seems to have been corrupted; you need to reinstall it. As for the failure to register the server, try running the REGEDIT utility (\Windows\System) to fix the problem. And finally, upgrade your RAM to 8 MB, and consider a 486.

VIRUS PREVENTION

✉ To prevent viruses is it better to use hardware cards or software? Please advise me and give names of hardware card vendors.

B Subash Chander
Dindigul, TN

The normal way to combat viruses is to run anti-virus software such as Norton Anti-Virus, McAfee Scan, or home-grown products such as Nashot, IAVT and Smartdog. Hardware cards such as those from Red Alert and others are available, but their necessity is questionable. The best way to prevent infections is to control access to your HDD and religiously scan each floppy or file received—or block write access except to specified areas, easy with a network.

✉ The hard drive of my PC/XT is not booting, except from a floppy. I have been unable to use the SYS C: command as my XT hangs. I have even tried utilities such as PC Tools and Norton Utilities. I have even reformatted the hard disk. Could a virus attack make a hard disk unbootable? If so, what vaccine should I use.

Vivek Sharma
Vidisha, MP

Viruses such as Discwasher can destroy your FAT, and if not detected in time even your physical drive. Try running FDISK, removing all partitions, and re-creating them and then running a FORMAT. But if it still doesn't work even after a complete reformat, your drive controller could have died.

XTs are so obsolete that getting spares is very unlikely. Try and get the best trade-in you can on your monitor, keyboard and drives, and upgrade to a 386 or 486.

DISKCOPY WIN 95

✉ When I received my first copy of Windows 95, I noticed that it is mentioned on every disk: "Format: High Density (DMF)". What is a DMF disk and how can I backup such disks because DOS's "Diskcopy" fails.

Ranjan Datta
Calcutta, WB

Use Win 95's DISKCOPY to make a copy of your original disks. DMF is a proprietary format that stores more data on a 1.44 MB diskette.

✉ I've bought a 486/8 MB for DTP. I am planning to buy QuarkxPress 3.2 or Aldus PageMaker 5.0. Please tell me which is the best, and why. Also what is the difference between Internet and the Information Superhighway?

Dr Sikman Singh
Kathmandu, Nepal

If you are new to DTP, opt for PageMaker, as QuarkxPress has a higher learning curve. We would recommend 16 MB for PageMaker (more if you will use heavy graphics).

The Information Superhighway is a metaphor for a worldwide computer network for information exchange. It allows users to 'surf' (see Comversations for more information) or access sites, mostly for free. The Internet is part of the Superhighway vision, except that it's here today.

PROGRAMMING LANGUAGES OR AI

✉ I'm a software engineering student at Aptech. I've read "AI—The Second Coming" in the January 1996 PCQ. This is my first semester and I would like to know if C, C++, Oracle 7, Visual C++, Visual Basic and Power Builder (to be taught in coming semesters) will be obsolete when AI systems become standard. If that is true, then what do I have to do to be fully armed for the future and how far away is it.

Himanshu Shekhar
Delhi

The programming software you've listed will not become obsolete in a hurry. AI has decades to go before it becomes part of the mainstream. It will continue to be used in specialized systems, not in mainstream apps (whatever washing-machine vendors may claim). What you're learning should stay current although new versions of these software will appear in rapid succession, and the paradigm shift to graphical development and to objects will even stronger and well-defined.

MISSING GROLIER'S

✉ We had bought Aztech's Sound Galaxy Voyager Multimedia Kit, from Digital World India, Mumbai. Unfortunately The New Grolier's Multimedia Encyclopaedia was not shipped with our unit. We had also written to Digital [illegible] in this regard but [illegible] received any reply.

TS Mohana [illegible]
[illegible]

The CD-ROM in question [illegible] *tained a map of India* [illegible] *parts of Kashmir in* [illegible] *Customs detained the* [illegible] *ment, pending clearance* [illegible] *Delhi. The distributors* [illegible] *for a speedy resolution* [illegible] *problem (see PC Quest,* [illegible] *1996), but apparently* [illegible] *get one.*

SCANNERS AND OCR

✉ How does a scanner [illegible] and what is the concept [illegible] hind developing a [illegible] software like OCR?

AD Fern [illegible]
Coimbatore

A scanner makes an [illegible] *tronic copy and stores* [illegible] *graphical file format.* [illegible] *plest example of a scanner* [illegible] *fax machine that transmits* [illegible] *ture of the contents of* [illegible] *across telephone lines* [illegible] *fax. There are both monochrome and color scanners available, flatbed, hand-held and other models.*

OCR is Optical Character Recognition, and it involves intelligent software that searches for patterns in the scanned image which correspond to a stored character image. OCR can convert printed documents into text most of which can be imported into your favourite word processor and spreadsheet. Each symbol scanned is compared with a library of characters and numbers and then identified as the letter "A", "B" etc. It isn't easy to develop OCR software, as most OCR like techniques are applied [illegible]

(Answers by T S [illegible] *Kumar, Royans K Thomas, Prasanth P, Prashanth G.M. PCQ Bureau)*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PICK OF THE MONTH

A compilation of positions advertised between 1st May, 1996 and 20th May, 1996 in various Newspapers

Job, Company & Location	Ednl Qlfns, Experience & Salary Offered	Write to :
SOFTWARE COMPANIES		
SOFTWARE ENGINEERS MI SOFTWARE LTD. HYDERABAD	GRADUATE/POST GRADUATE IN STRUCTURAL ENGG.	MANAGER-PERSONNEL, KAUTILYA, 6-3-652, SOMAJIGUDA, HYDERABAD-500082 (HIN-18/5/96)
SOFTWARE PROFESSIONALS PATNI COMPUTER SYSTEMS PVT. LTD. BOMBAY	GRADUATE WITH MANUF. 3 YEARS	UNIT NO.-55, SDF-II, SEEPZ, ANDHERI-E BOMBAY-400096 (TOI-16/5/96)
COBAL PROFESSIONALS SQUARED SOFTWARE LTD. MADRAS	B.E. 3-4 YEARS	G.R. COMPLEX, 407-408, MOUNT ROAD, MADRAS-600035 (HIN-15/5/96)
PROJECT LEADER TATA ELXSI (INDIA) LTD. BANGALORE		HUMAN RESOURCES TEAM, 123, RICHMOND ROAD, BANGALORE-560025 (DCH-14/5/96)
IT PROFESSIONALS PSG INFOTEK COIMBATORE	BE/M.SC COMP. SCIENCE/MCA/MBA 2 YEARS	DIRECTOR, POST BOX NO. 1609 COIMBATORE-641004 (HIN-11/5/96)
PROJECT MANAGER XTEC SOFTWARE PVT. LTD. CALCUTTA		Y-14, BLOCK EP SECTORS-V, SALTLEC ELECTRONICS COMPLEX, CALCUTTA-700091 (STMN-10/5/96)
SOFTWARE PROFESSIONALS LEADING EDGE SYSTEMS LIMITED BOMBAY	BE 3 YEARS	27, SDF-1, SEEPZ, ANDHERI EAST BOMBAY-400096 (HIN-8/5/96)
PROGRAMMER TATA CONSULTANCY SERVICES BOMBAY	DEGREE IN COMPUTER SCIENCE/ENGG.	LOTUS HOUSE, 6, NEW MARINE LINES, BOMBAY-400020 (HIN-8/5/96)
SYSTEM SOFTWARE PROFESSIONALS VERITAS SOFTWARE INDIA PVT. LTD. PUNE	2+	1179/3, SHIVAJINAGAR, MODERN COLLEGE ROAD, PUNE-4110005 (DCH-7/5/96)
SOFTWARE PROFESSIONALS CODE ORG SYSTEMS LTD. BANGALORE	MCA/B.E.	THE GENERAL MANAGER MARUTHI TOWERS, 3RD FLOOR, 3/4 HOSUR ROAD, BANGALORE-560068 (DCH-7/5/96)
HARDWARE COMPANIES		
SOFTWARE PROFESSIONALS PATNI COMPUTER SYSTEMS PVT. LTD. BOMBAY	GRADUATE IN SOFTWARE DEV. 2 YEARS	UNIT NO. 134/135, SDF-V, SEEPZ ANDHERI (E) BOMBAY-400096 (TOI-9/5/96)
USERS COMPANIES		
MANAGER SYSTEMS MODERN GROUP BOMBAY	GRADUATE WITH DEGREE/DIPLOMA IN COMPUTER & SYSTEM 3-5 YEARS	SR. PRESIDENT-HRD, 208, NAV NEELAM, DR. R.G. THADANI MARG, BOMBAY-400019 (TOI-20/5/96)
SOFTWARE PROFESSIONALS RAYMOND LTD. THANE	GRADUATE IN DESIGN & DEVELOPMENT OF SOFTWARE 3-5 YEARS	DIRECTOR CO-ORDINATION, 2ND FLOOR, MAHINDRA, TOWERS P. BUDHKAR MARG, BOMBAY-400018 (TOI-20/5/96)
ENGINEER VSNL TELECOM LIMITED BANGALORE	BE/ME 2-4 YEARS	1ST FLOOR, 1/1, PALACE ROAD, BANGALORE-560001 (DCH-7/5/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Our client, a reputed and distinguished International organisation and a world leader in its sphere of operations is setting up a base in India with their corporate office in New Delhi. The company's product would be made available to the masses through a chain of retail outlets employing state-of-art IT configuration.
We are looking for dynamic, ambitious and result oriented personnel to join in the early exciting phase.

TECHNICAL PROJECT MANAGER

Job Profile

- You shall be working in close coordination with an expatriate senior executive and shall be responsible for managing, the implementation of a very large state-of-art distribution network within a stipulated time and budgetary framework.
- Establish procedures and technical specification for installation of point of sale terminals at various locations.
- Establish and implement quality control and test plans for all outlet based system.
- Maintenance of all site documentation including configuration management.

Qualifications

- B.E./B.Tech. in Electronics and Telecommunications with about 8 years relevant experience including 3 years as Project Manager.
- Excellent track record in commissioning of Communication/Networking project. Good exposure to **VSAT** Technology, **On-line** Communication Network would be an added advantage.
- Should be conversant with Networking and Communication Hardware including VSAT, Routers, Bridges, and Hubs.

PROGRAMMER APPLICATION SUPPORT

Job Profile

- Would be required to assist the Australian Managers with the development and customization of all OLTP applications.
- Maintenance of applications and host computers system including fault detection, diagnosis, correction & testing.
- Maintenance of all system and application documentation including configuration management.

Qualifications

- M.Sc. (Comp. Sc.)/B.Sc. (Engineering) with 2 to 5 years relevant experience with OLTP/Real Time transaction processing application.
- Familiarity with **RDBMS** system, preferably **Oracle** & **Unix** environment.
- Excellent programming skills in C.
- Knowledge of **WAN** Communication Concepts and Networking Hardware including Routers, Bridges/Gateways/Hubs.

Successful applicants would initially be based in New Delhi and eventually at the Data Centre located in the vicinity of Chandigarh. Both the positions would entail formal orientation and training in Australia. Compensation package is designed to attract the best talent in the industry and no constraints for the deserving candidates.

Send your resume to:

SUDIPTO BASU
Unit # 611, Paharpur Business Centre
21, Nehru Place, New Delhi - 110 019
Fax Nos. : 91-11-622 7915/743 8479

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BANYAN
Networking Without Limits™

Kind Attn. : Computer Freelance Trainers/Training Institutes & Centres

Sub. : To impart training on Banyan VINES Software

Client : Corporate Giants

Banyan is a leader in Enterprise Networking Software products, with flagship solutions based on Banyan VINES. Its products enable customers to integrate a broad range of PC-based and UNIX-based platforms in a united global network, that is easy to use and manage. *Being a technology leader in the Network Operating Systems (NOS) arena, it enjoys 67% share of the WAN market.*

Datamatics Information Technology is one of the Asia's leading Premier Network Integrators of Banyan Systems Inc., USA. We are also the recipient of the Reseller Excellence Award '95. We have installed various Banyan LAN/WAN products at Reserve Bank of India, Deutsche Bank, Thermax, Mudra, The Times of India & Siemens to name a few; doubling our installed base from year to year.

To extend our invaluable support to our clients, we require Computer Freelance Trainers/Training Institutes & Centres, to conduct comprehensive and advanced training in Banyan VINES and other products and services related to Banyan.

Interested competent Persons/Parties should contact :

Datamatics Ltd.

Datamatics Information Technology, (DIT), 106, Embassy Centre, Nariman Point, Bombay - 400 021. Tel.: 283 1188, 285 3107. Fax : 22-285 3108.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

APPOINTMENTS

Digitized by Arya Samaj Foundation Chennai and eGangotri

Stone India Limited

CALCUTTA 700 088

DUNCAN GOENKA

Stone India Limited, a part of the DUNCAN GOENKA group is setting up a unit to manufacture Computer Colour Monitors with technical know-how from renowned foreign Company.

For this unit, it needs the following personnel :-

1. BUSINESS MANAGER — LOCATION : CALCUTTA

The incumbent will be responsible for development of the business catering to both the OEM's and retail segments of the market. He will also be responsible for diversifying into allied activites in future.

The candidate should be an Electronic/Electrical Engineer, aged around 35 years, with 6 to 8 years relevant experience in Computer peripherals business. Those with management qualification and multi-function exposure will be preferred.

2. SALES EXECUTIVE — LOCATION : METRO CITIES / BANGALORE

He will be responsible for generating orders, customer relationship. Candidates, aged around 25/28 years, should preferably be an Electronic Engineer with management qualification and 2/3 years relevant experience.

3. PURCHASE MANAGER — LOCATION : CALCUTTA

He will be responsible for vendor development, sourcing components from International markets, tracking technology trends and sub-contracting.

The candidate should preferably be Electronic Engineer with management qualifications and 2/3 years relevant experience.

Remuneration package for all positions will commensure with qualification and experience. The Company offers good career advancement prospects within the Company and in other group units.

Please send your detailed resume within 15 days superscribing the envelope with the position applied for to:

GENERAL MANAGER- PERSONNEL
STONE INDIA LIMITED
16 TARATALLA ROAD
CALCUTTA 700 088

PRESS

DTP OPERATORS WITH A FLAIR FOR TYPE

A leading New Delhi based magazine publishing firm needs DTP operators familiar with Type 1 fonts under ATM, application of process colors in Page Maker 5.0, Corel Draw 3.0 and Magazine layouts. Operators need to have 2-3 years experience in such environments.

Local candidates and excellent outstation candidates need apply to the address below:

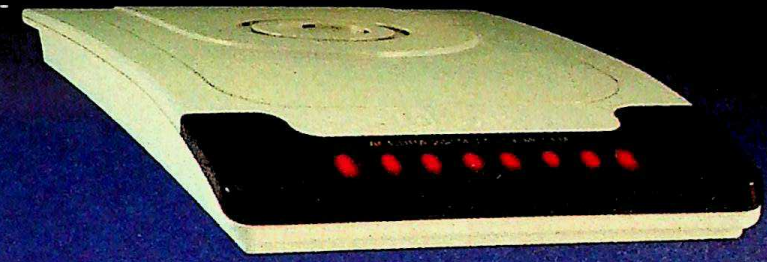
C/o BOX No 543-95/1
PC QUEST, 701 Meghdoot, 94 Nehru Place, New Delhi 110019

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Accura
Modem

288

Always!

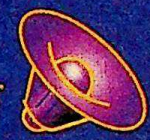


When the first Smartmodem™ shipped in 1981, Hayes opened the on ramp to the information highway, setting the standard for modem communications. Today these standards are adopted by other manufacturers and software developers. Hayes has been chosen by Fortune 1,000 companies 3 to 1 over Hayes-Compatible modems for reliability and compatibility. Put that same quality to work in your home or office.

Installation and Set-up is a Snap

- Modem installation as easy as one-two-three, with Windows™ 95 Plug-n-Play compatibility.
- Move from function to function quickly and easily using intuitive Windows™ interface in this Data/FAX/Voice software.

Let Your Computer Speak For You



- Choose one of the pre-recorded Voice Mail Messages or record your own.
- You determine the Voice Mail Message your callers hear and how they can reach you to prioritize messages.

Transmit Data in the Blink of an Eye

- Save time and money by using 28,800 bits/s data speed.
- Transfer 100 pages of text in 30 seconds with throughput up to 115,200 bits/s.
- Protect data with the international V.42 error control standard.
- Supports the Hayes Standard AT Command Set—the industry standard.

FAX at Your Fingertips

- Send and receive Data and FAXes on one line.
- High speed FAXes at 14,400 bits/s.
- FAX-on-Demand provides an automated service that will FAX your customers back with requested information.
- Send and receive Group 3 FAXes with support for both Class 1 and Class 2 modem standards.

Unsurpassed Hayes Reliability

- Our legendary Customer Support team will answer all your questions.

Digitized by Arya Samaj Foundation Chennai and eGangotri

Datamatics Ltd.

BOMBAY : 106, Embassy Centre, Nariman Point, Bombay - 400 021. Tel.: (022) 283 1188/285 3107. Fax : (022) 285 3108.

DELHI : K-1/78, II Floor, Chittaranjan Park, Main Road, New Delhi - 110 019. Tel.: (011) 646 4455. Fax : (011) 621 1030.

BANGALORE : No. 26 (Old No. 32/2), Spencer Road, Frazer Town, Bangalore - 560 005. Tel.: (080) 554 4600. Fax : (080) 554 6266.

CALCUTTA : 63, Rafi Ahmed Kidwai Road, Calcutta - 700 016. Tel.: (033) 244 6211/244 6212. Fax : (033) 244 6213.

Hayes™

Increasing the Speed of Business.™

All the trademarks are of their respective owners.

Yes, I am interested in the Hayes Accura 288 and would like ☐ to purchase it ☐ to receive more details.

Name : _____

Designation : _____

Company : _____

Address : _____

_____ Tel.: _____ Fax : _____

Mail / Fax to Datamatics Information Technology, 106, Embassy Centre, Nariman Point, Bombay - 400 021. Tel.: (022) 283 1188 / 285 3107. Fax : (022) 285 3108.

: UBIQUITAS850 :

Digitized by Arya Samaj Foundation Chennai and eGangotri

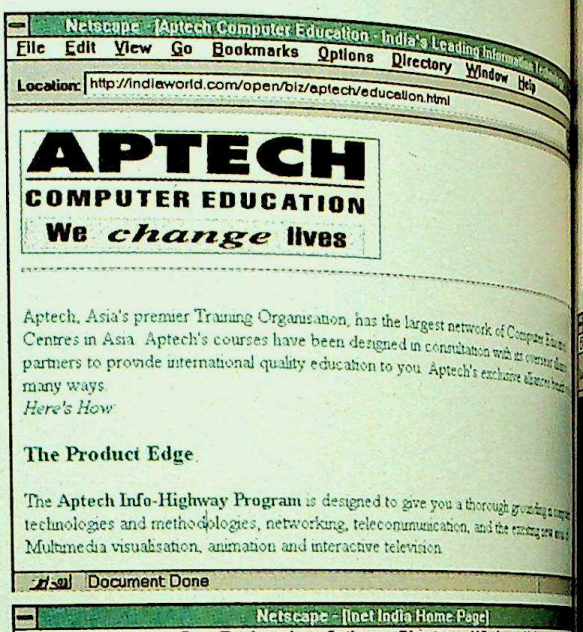
INDIA Internet

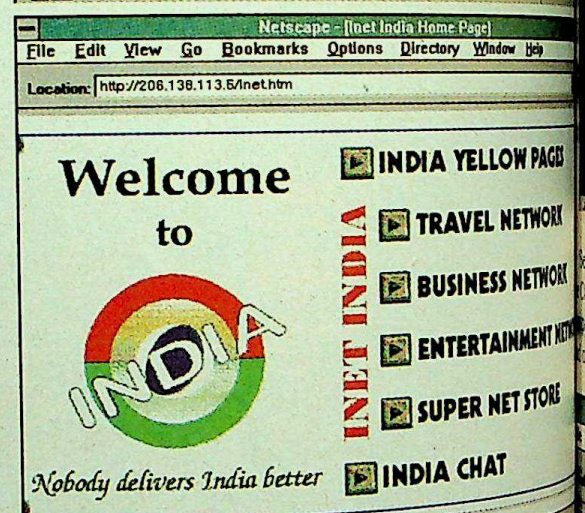
India's representation on the Web gets bigger every month

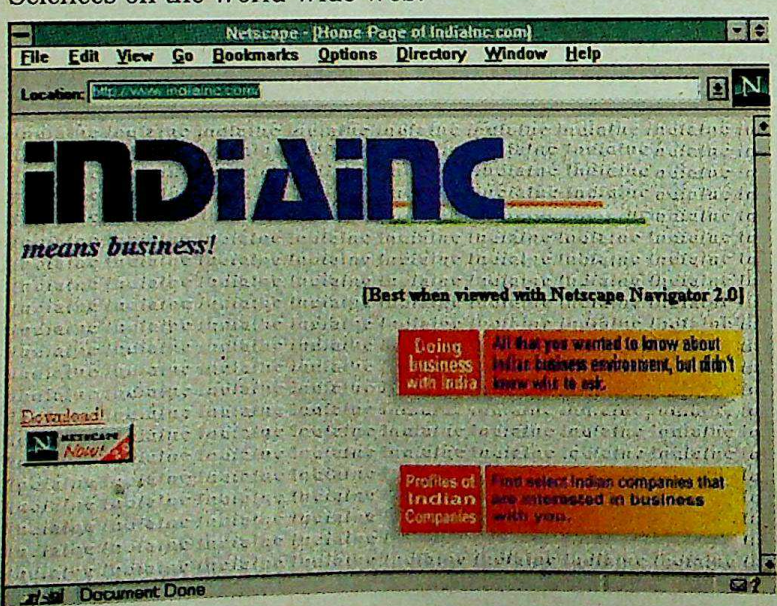
Get past the challenging full screen ISMAP, and you're at Aptech's web site (http://www.indiaworld.com/aptech). The rest is easy enough to navigate. With this site, Aptech announces the Internet launch of its education programs. It explains the edge given by its courses, and introduces some of its partnerships and the opportunities they bring to Aptech students. Hexaware Technologies and Aptech's Year 2000 service are described and so is Hardcore—an Aptech venture set up in 1994 to provide education in networking and telecommunications. Also featured is Aptech's Centre for Business Transformation and its training and consultancy solutions for the corporate sector with selections from Ganesh Natrajan's column.

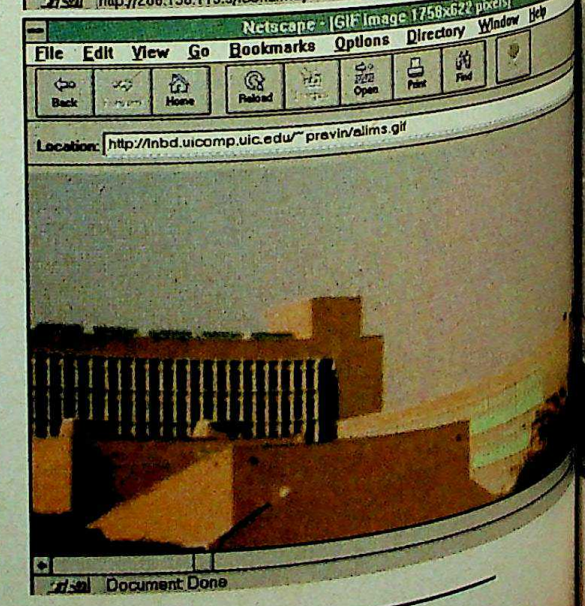
Business web sites offering advertising, directories and business related information of all kinds are on the increase. IndiaInc (http://www.indiainc.com/) plans to put up India-related information including the strengths of its economy, procedures for investing, trade policy, and company profiles. Another business site, I-net India (http://206.1.38.113.5/inet.htm), plans on providing information on India through a Yellow Pages section, a Business Network with a Business Assistance Centre for information on trade promotion organisations in India, a Travel Network and an Entertainment Network. Also planned at this site are an on-line store and live chat.

An absolutely colossal photograph (http://lnbd.uicomp.uic.edu/~pravin/aiims.gif) places the All India Institute of Medical Sciences on the World Wide Web.



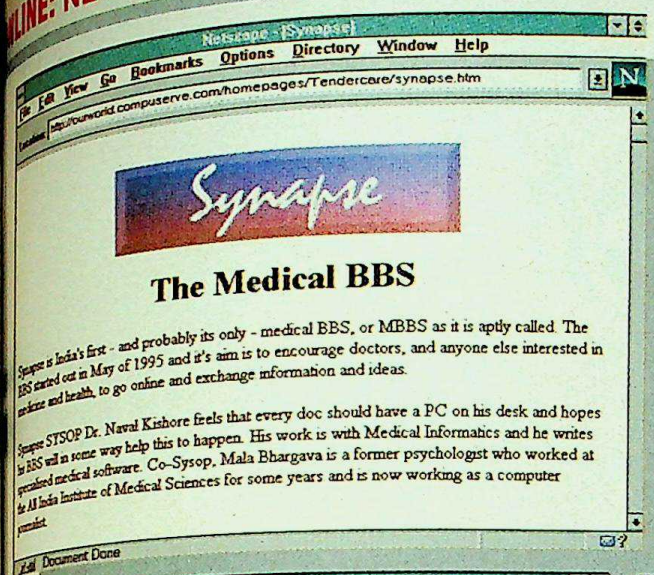


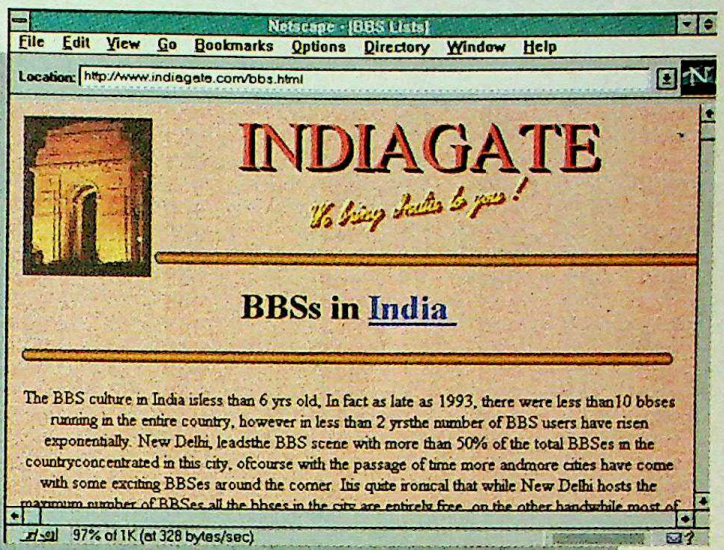


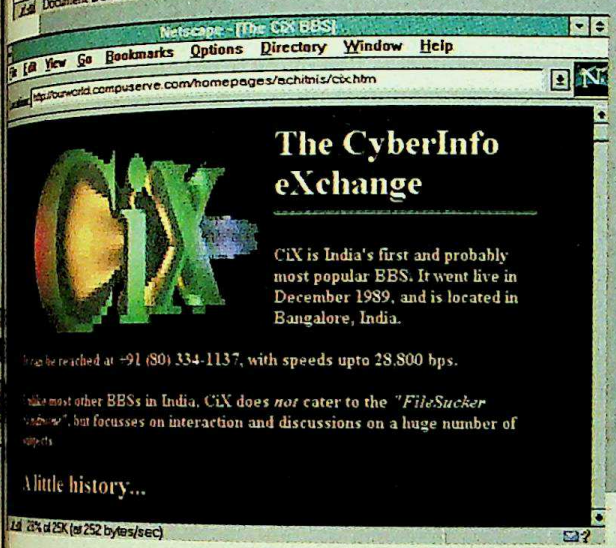


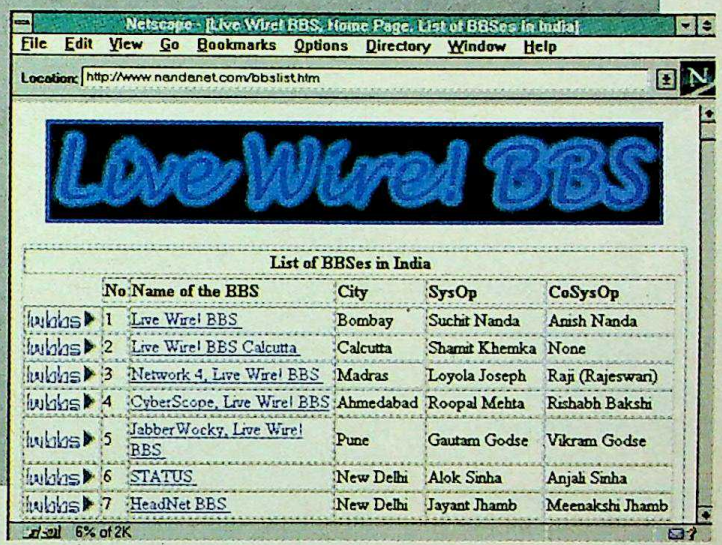
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

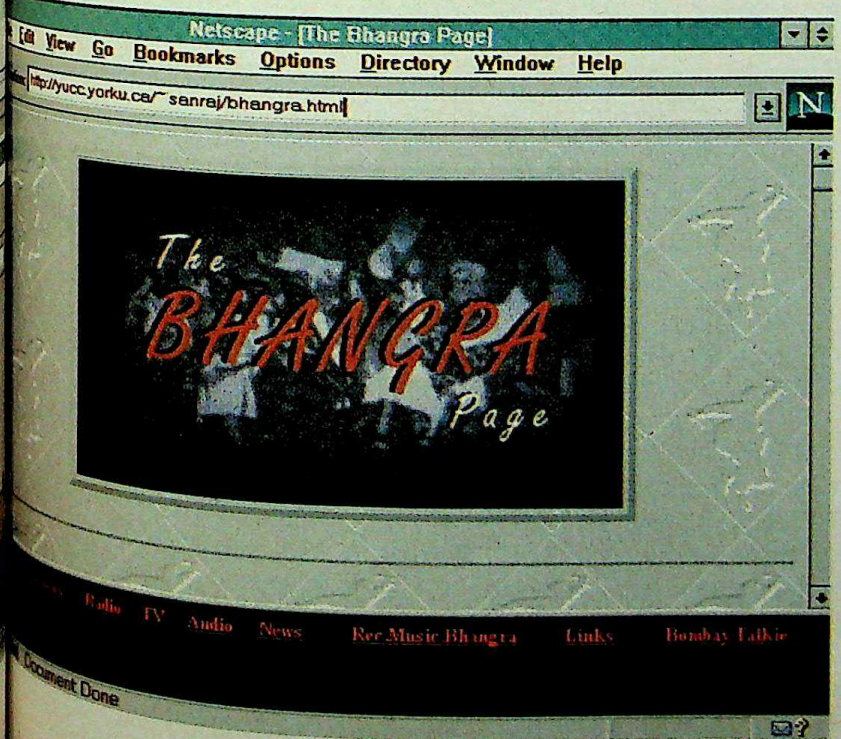








Several of India's BBSs have home pages on the Internet. At CiX Bangalore home page (http://ourworld.compuserve.com/homepages/achitnis/cix.htm) you can read a little CiX history, about what happens to Filesuckers, and get information on and how to connect to CiX. Live Wire athttp://www.nandanet.com/bbslist.htm hosts a list of BBSs in India. Synapse, the Medical BBS at (http://ourworld.compuserve.com/homepages/Tendercare/synapse.htm) lets you read about its various forums. Indiagate (http://www.indiagate.com) features several BBSs including Status, Headnet, and Poison Den.



Bhangra on the Net (http://yucc.yorku.ca/~sanraj/bhangra.html) is fairly well developed, and has news and reviews, Bhangra gigs, radio and TV shows, and even some audio. This site also features quite a few personal home pages as well. It also offers you a sizeable list of Bhangra links including the Desi Dance Music Page (http://www.uwm.edu/~qazi/dance2.html), The Bhangra Dimension (http://www.ece.utexas.edu/~bhogal/bicky.html), a link to the Bombay Talkie page (http://yucc.yorku.ca/~sanraj/talkie/index.html), the interactive Bhangra Page, and the Bhangra Network (http://www.bhangra.co.uk/) plus several others.

Mala Bhargava
<mala@pobox.com>

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

VSNL Watch June 96

VSNL's Internet service gets smarter, faster and (probably) cheaper, though it stays inconsistent across cities

The VSNL juggernaut has been plodding on, gaining in strength, while making the prospects for private Internet providers look even bleaker in the Indian market.

At the recent Internet India '96 show in Bangalore, VSNL Internet service operations chief Amitabh Kumar effectively ruled out private ISPs, while acknowledging that VSNL was using only around 30 percent of the bandwidth available to them.

The good news is that things are beginning to shape up at VSNL. The month of May saw an overnight appearance of 28.8 kbps V.34 lines (32 of them in the capital) at all VSNL GIAS locations all over the country except Bangalore. While the quality of the modems and/or lines used is suspect, it's a step in the right direction. Unfortunately (or maybe fortunately, depending on point of view) 28.8 kbps access is limited to the TCP/IP accounts.

All is not well on the VSNL shell-account front, though. Inspite of VSNL's insistence that a "hung" account would not result in depletion of a users on-line time allocation, it has now been proved without doubt that this indeed happens. Basically, VSNL's shell account tracking happens via the WTMP file. We have checked various accounts which had "hung" (that is, the user had disconnected but the process was still running) and found that the entries were made in the WTMP file, thereby causing in that user's time allocation to deplete until someone at VSNL killed the task.

VSNL is still unable to get a grip on the coordinated functioning of the various GIAS sites. No two GIAS site anywhere in India have the same setup and facilities. For example, while Delhi has incoming finger and FTP services, Bombay and Madras do not. Bombay has IRC (Internet Relay Chat), Bangalore does not.

The much-lauded "guest" account feature which we wrote about last month has been changed—the default password for the "guest" account (which allows travelling users to access their VSNL accounts in their home cities from any other VSNL site) was recently changed from "GUEST" to "gias123". At press time, however, it is still "GUEST" at GIAS Bombay.

VSNL has now made it easier to access the GIAS centres via I-Net—they have added several I-NET address which allow users to connect to some of the major VSNL sites. They have also finally put out instructions on how to use the I-NET accounts to connect properly—information that has been available on the various BBSs around the country for several months now.

Basically, once you connect via I-NET to a VSNL GIAS server, you need to press Ctrl-P, and wait for the * prompt. Then, if your I-NET NUA starts with "3" (which means you are using I-NET Phase 1, which is a bad idea since it only supports 2,400 bps—change to phase 2 ASAP), you need to enter "PROF D0" and press Enter twice. If your NUA starts with "4" (which means you are on Phase 2, which allows up to 14,400 bps a[t] cities), you need to enter "PROF [I]" press Enter twice. This returns [you] the login prompt, and you can [log] usual.

One word of caution—many [people] seem to believe that I-NET is a [flat] not, you are paying Re 1 per [minute] Rs 50 per 64 kB of data, so keep [that in] mind. If you tried to transfer [the] CD-ROM that you got with this [issue] over I-NET, you'll pay Rs 390!

The final piece of news [which] were going to press—the 250 [hour limit] has been raised to 500 hours for [new] accounts. This is not yet confirmed, [how]ever.

One suggestion we would [like to] VSNL, though—sell TCP/IP [accounts] smaller batches at lower prices. [For] ample, if someone could, say, [buy a] TCP/IP account for 50 hours at [Rs 250], it would encourage a lot of people [to try] it out, and if they like it (and [know] they can extend it further. This [makes] sense especially at individual [level]—few individuals can afford to [pay] Rs 15,000 in one go, but Rs [1,500 per] month is affordable.

Nevertheless, if the rate change [does] happen, this is one time when [we can] without hesitation say "Welcome [back] VSNL!". The 250-hour limit [didn't] make any sense, but at 500 hours [the] IP accounts now seem very [attractive] for money, and few people [will] twice about taking switching to [the] much more powerful accounts [at] [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Total Protection

EPOWER COMMANDO entry level 280 VA & 425 VA UPSs are upgradable to 650 VA to modate your enhanced power needs. And this, by paying only the differential in the prevailing List es of the models ! SAFEPOWER COMMANDO is a LINE INTERACTIVE RANGE and comes in four gs: 280 VA, 425 VA, 650 VA and 800VA. **SAFEPOWER INTELLIGENT** is an off-line range and es in 500VA, 1000VA, 1400VA ratings. **SAFEPOWER SLIMLINE** with its sleek looks is line-active and comes in 625 VA rating.

ensive SAFEPOWER range comes loaded with features •150 V - 275 V input voltage range •Long d battery back up • Power-fail warning & automatic shutdown with Safeware Lite (optional)•Competent o team to provide the full level of the pre-announced service options.

SAFEPOWER COMMANDO

SAFEPOWER IS ALSO AVAILABLE ACROSS ALL COUNTERS OF HCL FRONTLINE LTD., DELHI.

DIANT
ER SYSTEMS
TE LIMITED

AJMER : 423453 / 4235 NDIGARH: 40465 CUTTACK : 614292 DEHRADUN : 657119 DHANBAD:302147 GHAZIABAD : 754851 GURGAON:330378 GWALIOR : 322911 INDORE:430194 JAIPUR : 601953, 565466 JALLANDHAR : 271872 / 3 JAMSHEDPUR:426685 JODHPUR : 37586, 32585 KANPUR : 210130 KOTA : 421247 LUCKNOW : 218351, 218409 LUDHIANA : 456891 MEERUT : 540874, 540894, 642012 NOIDA : 8554656 PATNA :651692 RAIPUR :535070 RANCHI : 205306 SONEPAT:40228 UDAIPUR : 526987 VARANASI : 351133, 355288

84, Khijrabad, New Friends Colony, New Delhi - 110065.Ph.: 6835523, 6919387, 6918908, 6911566.Fax: 6918908, 6834299

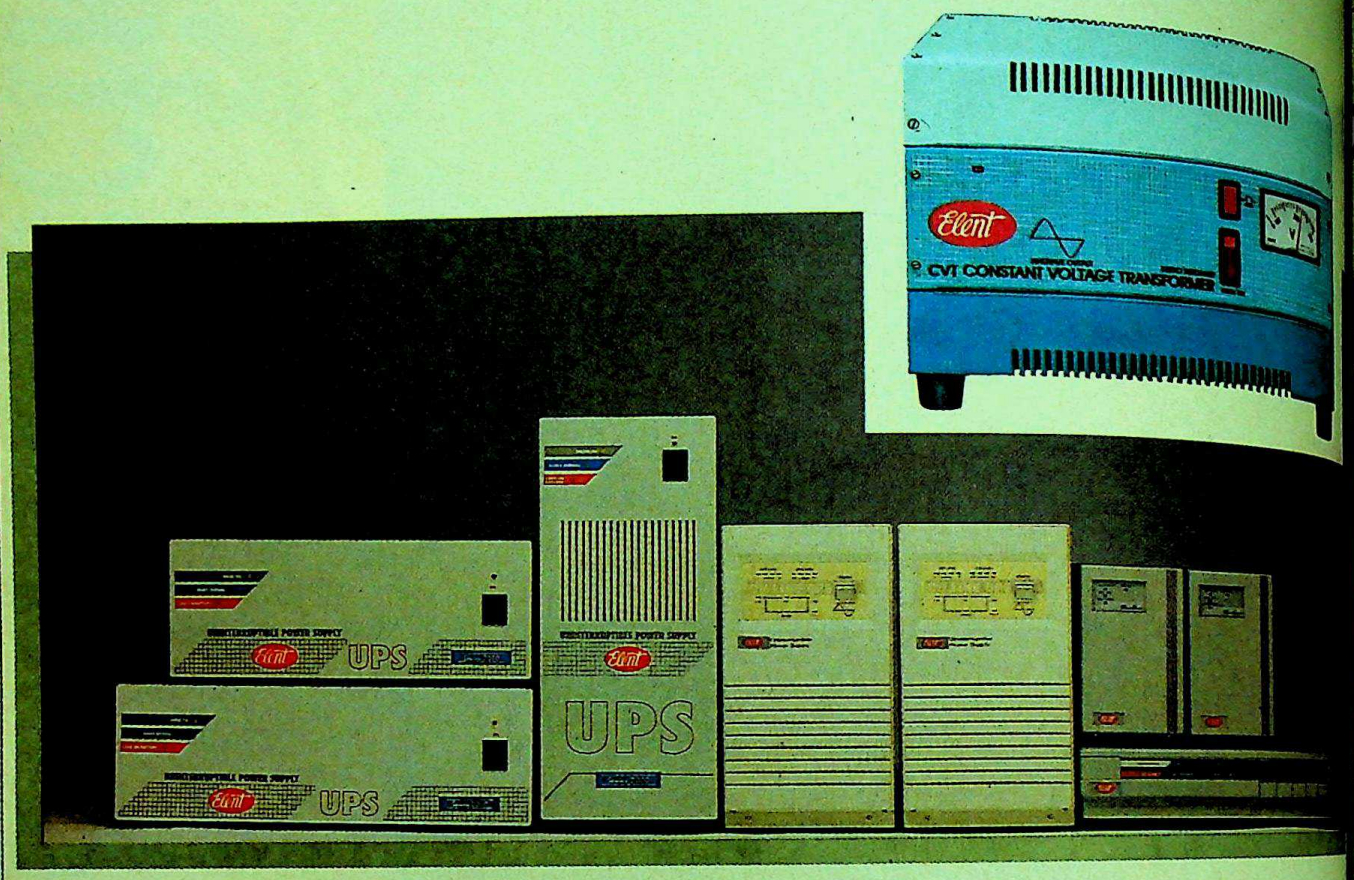
Trademarks appearing above are the property of their respective owners.

ANDY DIRECT/RP.96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

If the state of main-line power is messing with your happiness...



Rely on Elent.

While computing don't let the state of main-line power dictate your state of mind. Let Elent's state-of-the-art range of Power Conditioning equipment -

HIGHEST QUALITY Elent

UPS & CVTs in a wide ra... take care of all the has... and let you carry on ... worry-free. Get Elent on y... side and ensure your happin...

ELECTRONIC ENTERPRISES

67 DSIDC Complex, Okhla Ph. I, New Delhi 20 Ph.: 6810515, 6811774, 6818608 Fax : 91-11-6818608 Grams : STAGE...

Authorized Dealers:

NORTH •Chandigarh: 702395, 704138 •Faridabad: 289367, 289902,218696 •Hissar:76930, 79416 •Karnal:252769 •Shimla: 78438,204201, 204026 •Palampur (H.P.):31059 •Jammu: 44773, 548854, 43547, 546805, 533154 •Srinagar:72528,52056 •Ambala:643122 •Amritsar: 55547... 548852 •Bhatinda:210701 •Jalandhar:227124,252975 •Ludhiana:31856,400765,475568,471402 •Patiala:71849 •Agra:52580,54760,51313 •Allahabad:609192 •Bareilly:78585, 473033, 478707, 470838 •Dehradun:28016 •Ghaziabad:717131, 714617,718612 •Gorakhpur:333... •Kanpur:319056,319916,210130,210993 •Moradabad:317769 •Muzaffarnagar:405123 •Saharanpur:3440 •Varanasi:57212,57254, 352... •Jhans...

CENTRAL •Bhopal:555955,553030 •Gwalior:325965 •Indore:432902, 550649, 554080,494499,400455 •Jabalpur:20086, 26395 •... 442207 •Raipur:535817, 533882 •Ratlam:20088, 31088 •Sagar:22234 •Satna: 3625,2097 •Ajmer:32988 •Alwar:71330 •Bhilwara:26216 •Chittorgarh: 42468, 40672 •Jaipur:366862, 369818 •Jodhpur:27958 •Kota:20952 •Udaipur :413311

EAST •Guwahati: 31250, 540845 •Jamshedpur: 428381 •Patna: 230007 •Ranchi : 205795 •Imphal: 310783 •Shillong:223949, 222847, ... 221817 •Calcutta:298295, 297175 •Darjeeling:2040 •Siliguri:430146 •Berhampur (Orissa): 203187

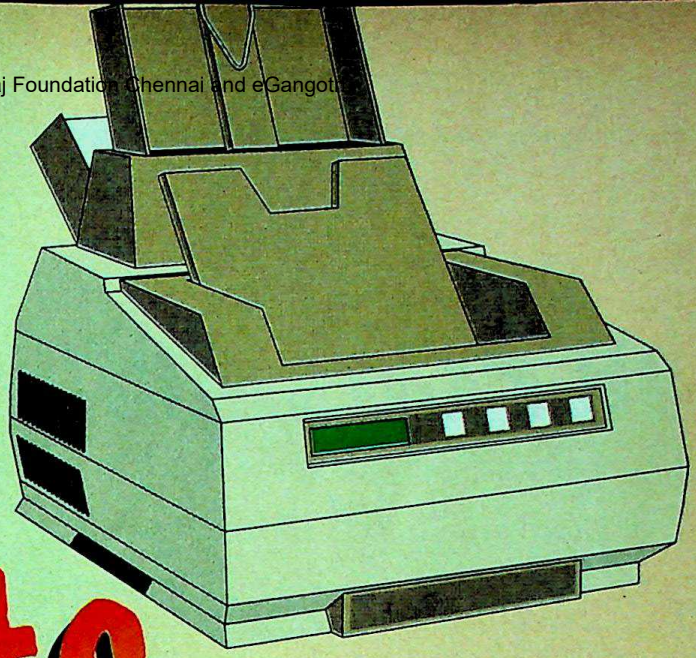
WEST •Goa: 223712,228644 •Ahmedabad:6638575,460883 •Rajkot:42955 •Jalgaon: 28470 •Vadodara: 338039,341364, 557542 •Chandrapur: 32101, 32662 •Akola:40781, 28710 •Amravati:74105 •Bombay: 5554830, 5555218 •Nagpur: 526862 •Nasik:579510 •... 346690 •Kopargaon: 23206, 22168 •Ulhasnagar: 550401, 551402

SOUTH •Belgaum:32482 •Madras: 8256893, 8277729, 458664, 453512, 512808, 5230195 •Madurai:31615, 35533 •Pondicherry:... •Salem:448271 •Tirupur:28790, •Trichy: 48400 •Port Blair (Andaman):30873 •Hyderabad:216850 •Vijaywada:72217,77248 •Visakhapatnam:547131, 53555 •Bangalore: 5591843, 8396561,5530791,5531841 •Mangalore:458852 •Cochin:368461 •Kollam: 204... 204115 •Coimbatore:231736,232087

For Dealers in Delhi, please contact our Office

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



The PC Quest products annual 96

On the stands July 15, 1996

It's the most comprehensive directory of products ever in India.

It vanishes from the stands in hours.

It's referred to by PC Quest readers throughout the year, before they buy new products.

Don't miss your copy.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The PCQ Internet CD-ROM

A quick look at the Internet goodies on the CD-R... free with this is...

This issue's CD is full of Internet-related material, including articles, utilities (both for shell account and TCP/IP account users) and lots of reference material that you will find useful as you travel through Cyberspace. There's also Internet material for those who aren't yet on-line—Web pages that you can browse through Internet Explorer or Mosaic.

The PC Quest Browser

This CD premieres The PC Quest Browser, specially tailored to let you browse through the Internet section and its utilities, and launch and install applications. This is a multimedia-capable hypertext reader, designed to display HTML pages. That's like a Web-browser such as Netscape or Internet Explorer, except that it is aimed at local, off-line usage—it displays HTML pages from disk, not the Internet.

The Browser is easy to use. It works with Windows 3.1, though Windows 95 is preferred, and you will need a mouse and at least a 256-color video driver (even if you have a mono monitor), though a 64k or 16 million-color driver is preferred.

The "base" material that the Browser uses is the Internet standard HyperText Markup Language (HTML)—the language used to create all Web pages. It supports HTML 2.0 with some HTML 3.0 extensions. The Browser also has multimedia support, including sound and video.

You will find some text that are underlined and highlighted in blue—these are "pointers' or "links". If you bring the mouse cursor over these links, you can see the status line at the bottom changing. Click on a link, and you'll see some action—a program, or another information screen. It's that simple.

This is version 1.00 of the Browser, written from scratch in whatever leisure-time the authors could squeeze in into five days. As such, it has a few limitations, the major one being that it can only display .BMP images, not the Internet-standard .GIF and .JPG ones.

The Contents

All the items in the Internet section are instantly accessible if you use the PC Quest Browser. If, however, you wish to access the files themselves—just look at the bottom line with your cursor on the link, and you will be told where the file is and what its name is.

Reference Material

This section contains a lot of useful information about the Internet, and the Online World in general: Comversations (selections from Atul Chitnis' PC Quest column that deal with effective Internet usage); A Cruise of the Internet (a colorful presentation on Internet resources); A Guide to the Internet (a Windows help file with lots of useful information, addresses and Internet documents).

In addition, there's a tutor on Setting Up Your Own Web site, including a basic HTML reference. There's a detailed HTML 2.0 Primer, with lots of examples, and information about various e-mail address formats. There's a section on Accessing The Internet By E-mail—those who have only e-mail accounts, not live Net access, will be amazed at what they can do. And there's lots of information about the Online World—a book about the on-line world, in ASCII text form.

File Catalogs

This CD-ROM has megabytes o... organized and documented ... Internet programs.

Win 95 Software

A host of Windows 95 softwa... cluding the Java Development K...

Win 3.1 Software

Many of you are still runn... dows 3.x—this section is for y... these apps will also run under W...

DOS Software

For those of you who only hav... account and don't use Windo... section offers you some useful pr...

Linux Software

In March 96, we gave you Li... UNIX-like operating system. This ... contains a few programs for Li... we missed out last time, and als... more that we think will be useful ...

Video For Windows

To view .AVI video files, some ... are also on this CD, you must ins... runtime version of this software p... on the CD-ROM—just click on ... near the bottom of the title page ... you've installed Video For Win... special "tech tip" from the PCQ ge... Pay close attention to this and le... his experience. To play the sound ... files you'll need a PC equipped ... sound card.

Atul Chitnis <achitnis@pcqu... datacom and networking consu... contributing editor of ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

exciting prizes!

2 DeskJet 200 printers from Hewlett-Packard

5 SmartSuite packages from Lotus

50 T-shirts from Apple Computer

No contests, captions or slogans. Help us improve the PCQ CD-ROM with your feedback, and you could win any of these prizes. It's easy. Simply click on the Launcher's second icon (marked "Response form..."), fill up the feedback form, print it out, and mail it to us. Or print to a plain text file and e-mail that to us. Your forms will go through a draw of lots, to decide on the winners of these prizes. Good luck!

july 1996 — **The Products Annual**
The definitive Indian computer products guide

august 1996 — **The Notebooks shootout**
+ High-speed networking

september 1996 — **User's Choice Awards**
+ The PCQ Fall '96 CD-ROM

october 1996 — **The Online World**
+ Review of modems and e-mail services

PC Quest India's personal computing magazine

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

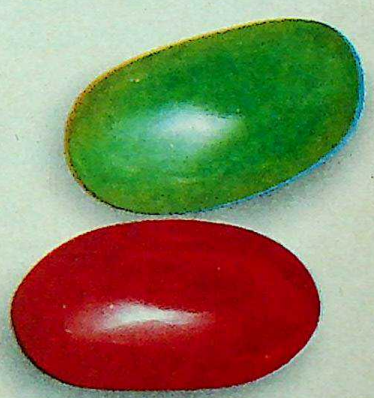
No Lord, gimme bread.

You've heard it all before.

Big budget ideas. Tight budget realities. Every client, big or small, comes up against them at some time or the other. Still, it's up to you to deliver, while making sure every job comes out looking like it couldn't be done any better. And more economically.

So how do you walk this tight-thread of a rope?

Do what the big guns like B.R. Films, Zee TV, Doordarshan, Television Eighteen and others do. Stick to Benchmark's all-encompassing range of non-proprietary film and video post production equipment.



Where for example you have, at least, 7 options for your Graphics or Animation needs. Like the Inscriber, Illuminator PRO, VMAXX and others. Another 3 for Video Editing, like the Matrox Studio, D-Vision PostSUITE, and Virtual Recorder. Another 5 for Multimedia Subsystems. Getting monotonous, aren't we?

For the entire menu, check out the bottom of this ad. For the secret behind it, get in touch with Rinku Roy. You can fax her on 91-44-4910123.

And make sure the bread keeps rolling in while the jobs keep rolling out.

BENCHMARK

India's film and video post production store.

BENCHMARK MICROSYSTEMS PVT. LTD. Ceebros Arcade Sardar Patel Road Adyar Madras 600 020 India **Phone** 91-44-491 0054 **Fax** 91-44-491 0123

MATROX Studio

D-Vision PostSUITE

VR Virtual Recorder

OPTIBASE LEADING THE MPEG REVOLUTION
- MPEG-1 ENCODER
- MPEG-1/2 DECODER
- MPEG-1E1 VIDEO COMMUNICATIONS LINK

Matrox Marvel Millennium

All trademarks, registered trademarks, and logos are of their respective holders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Snapshots Of The Web

Glimpses of Web pages on the PCQ Internet CD-ROM, free with this issue

The PCQ Internet CD-ROM with this issue contains snapshots of sites from the World Wide Web. For those who don't yet have Internet access or even a modem—here's a good chance to check out what's available on the Web.

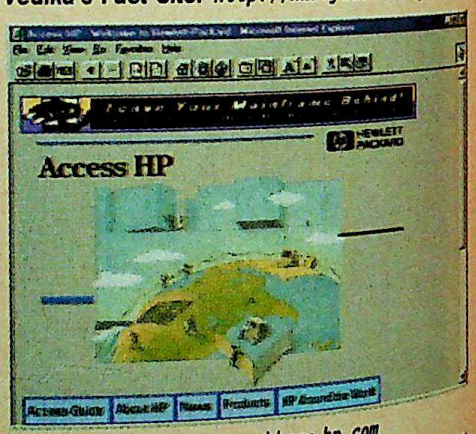
To view these Web pages, you need to install a browser. This CD-ROM contains Microsoft Internet Explorer 2.0. It runs best on Windows 95, but if you're using Windows 3.1 you can install Win32S from the CD-ROM before installing Internet Ex... You can also install NCSA Mosaic (included) or any ... browser such as Netscape. Note, however, that some ... local image maps, such as those on the BBC page, ... work with all browsers.

After installing the browser, load the file WEB.HTM ... root of the CD-ROM) into the browser (File/Open), to ... the Web page contents. Happy browsing.

Apple Computer: `http://www.apple.com`

Vedika's Fact Site: `http://www.fact.com.sg`

Corel Corp: `http://www.corel.com`



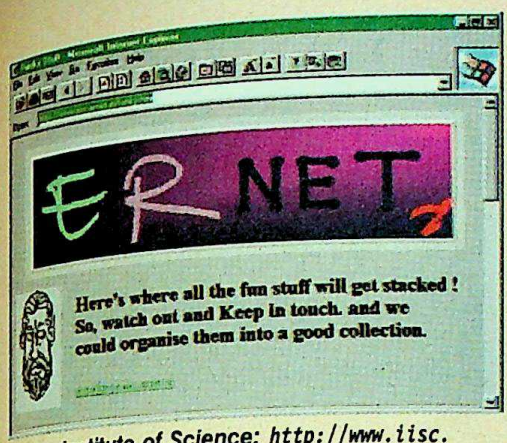
Hewlett-Packard: `http://www.hp.com`

Disneyworld: `http://www.disney.com`

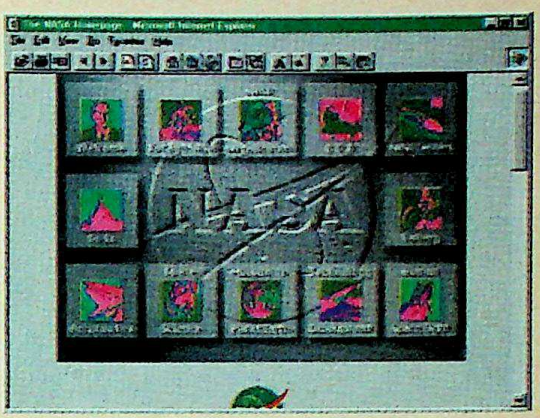
IBM: `http://www.ibm.com`

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

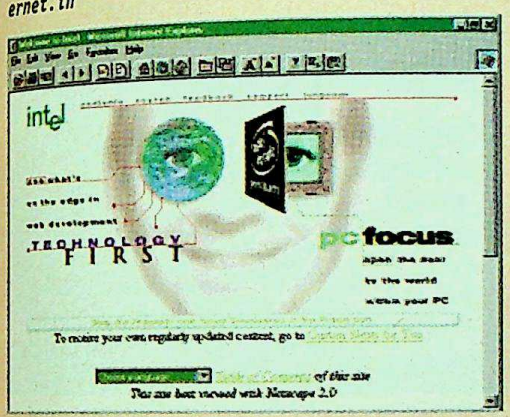
Digitized by Arya Samaj Foundation Chennai and eGangotri



Indian Institute of Science: `http://www.iisc.ernet.in`



NASA: `http://www.nasa.gov`

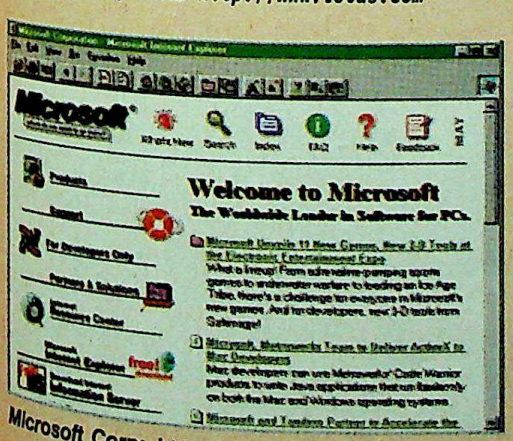


Intel Corp: `http://www.intel.com`

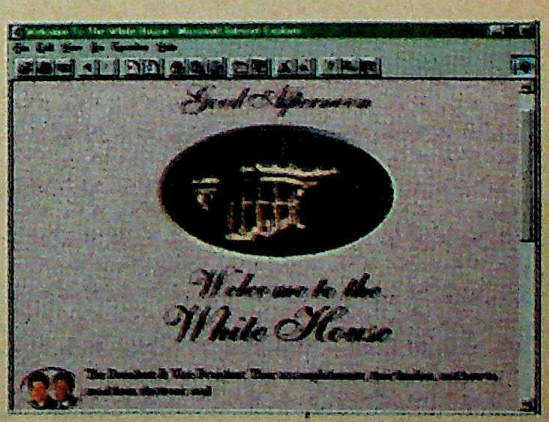
Rediffusion: `http://www.rediff.co.in`

Lotus Development: `http://www.lotus.com`

Time Magazine: `http://www.pathfinder.com`



Microsoft Corp: `http://www.microsoft.com`



The White House: `http://www.whitehouse.gov`

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Every year intelligent computer users save thousands of man & machine hours...

by selecting and installing a UPS system that's proved its credentials as the best for **easy computing in tough power conditions,** time and again.
Join the Elnova UPS users' fraternity.
Call the Authorized Elnova Dealer nearest to you and equip your computer before power plays truant again.

Rated on
TOP
PC Quest
Users' Survey 94-95
and again in
Users' Survey **95-96**

Record UPS Units sold
Apr.'95 - Mar.'96 : **6282**

ELNOVA
ELNOVA LIMITED
B-165 Okhla Inustrial Area, Phase I, New Delhi 110 020
Tel.: 6810172, 6810569 Fax:91-11-6811667

Specially for COMPUTERS **UPS** *Specially for Indian* Power Conditions

For Government Organisations: Available through Super Bazar, Connaught Place, New Delhi on rate contract :Contact or call
Registered Sole supplier: M/s. Hearwell Electronics Pvt. Ltd. Ph: 6980853, 6981154,6989949, 6982937, 6989386 Fax: 91-11-698[illegible]

Authorized Dealers:

NORTH •AGRA - 50555 •AJMER - 421230 • ALLAHABAD - 644330 •BAREILLY - 455085 •BHILWARA - 27625 •BIKANER - 6[illegible]
•CHANDIGARH - 705998 •GHAZIABAD - 712839 •GORAKHPUR -336152 •GURGAON - 8340003 •HARDWAR - 450489 •JAIPUR-37[illegible]
•JALANDHAR - 260998 •JAMMU - 49053 •JODHPUR - 35830 •KANPUR - 319916,312544 •KOTA -24556 •LUCKNOW - 226576,21[illegible]
•LUDHIANA - 23800 •MUSSORIE - 631055 •MUZAFFARNAGAR - 403274 •PANIPAT - 51877 •ROORKEE - 74340 •RUDRAPUR - 64[illegible]
•SHIMLA - 72552 •SRIGANGANAGAR - 31415 •UDAIPUR-525610, 414543 • VARANASI - 356338,350379

EAST •BERHAMPUR - 206317 •BHUBANESHWAR - 406180 •CALCUTTA-2387904, 3345156 •DHANBAD-307113 • GANGTOK-22[illegible]
•GUWAHATI - 565048, 543077, 543415 •IMPHAL - 220555, 220795 •ITANAGAR - 33376 •JAMSHEDPUR-423481 •PATNA -659453,2[illegible]
•RANCHI-315175 •SHILLONG - 220244 •TINSUKIA-20310

WEST •AHMEDABAD - 5507021 •AURANGABAD - 24637 •BARODA - 333193 •BOMBAY - 3436456 •GOA - 22468,22637
• KOLHAPUR -625665 •MIRAJ - 350910 •NASIK - 70757 • PUNE - 356818, 358618 •RAJKOT - 55426 • SANGLI - 76348 •SURAT - 64[illegible]
•THANE -5361023 •ULHASNAGAR - 541225

SOUTH •BANGALORE-3374825 •BELGAUM - 26335 •COCHIN - 310182 •COIMBATORE - 444017 •HYDERABAD - 7618609, 64[illegible]
•HUBLI - 372106 •MADRAS- 4941719, 4345634 •MANGALORE - 440921 •VIJAYWADA - 477077 •VIZAG-547131 • TRIVANDRUM-4[illegible]

CENTRAL •BHILAI/DURG - 323427 •BILASPUR - 21030 •BHOPAL - 582782 •GWALIOR-331721 •INDORE-531889 •JABALPUR-[illegible]
•JHANSI-444507 •NAGPUR-520777 •RAIPUR - 535011

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Java Sampler

A quick look at the Java Development Kit 1.0

It is very rare for something so academic as a computer language such as Java to create a furore, especially when it's far from having proved its worth. It's ironical that so many non-programmers are interested in Java. But then Java is a great idea, and any mileage it gets is good. On the other hand, Java has acquired the image of a 'super-duper' Web authoring package, at the expense of all its other niceties.

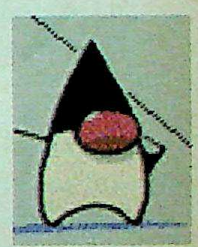
Java is a bit like C++, but far simpler than that blue-eyed OOP language. It incorporates almost every OOP-associated feature. It's large API also provides fairly transparent network connectivity. Threads (processes within processes that run independently) can be implemented with surprising ease. After all this, however, Java has nothing to do with the Web or HTML. Not yet.

The result of "compiling" a Java program (identified by .java) is a file that cannot execute by itself. The contents of this file need to be read and interpreted by an interpreter, which, incidentally, is given the name "Java".

But why an interpreter? An interpreter reads the program text—full of comments and for loops and so forth—and converts it into the machine code of the system used. Every line of source code has to be converted to machine code—every time it executes—making the application painfully slow.

To speed things up, our forefathers decided to eliminate interpreters. The source code was complied into machine code before distribution. The only drawback with compilers was that an executable could work only on one type of system—often specific to an operating system. So you had the world of .EXE and the world of a.out, and very rarely did the twain meet.

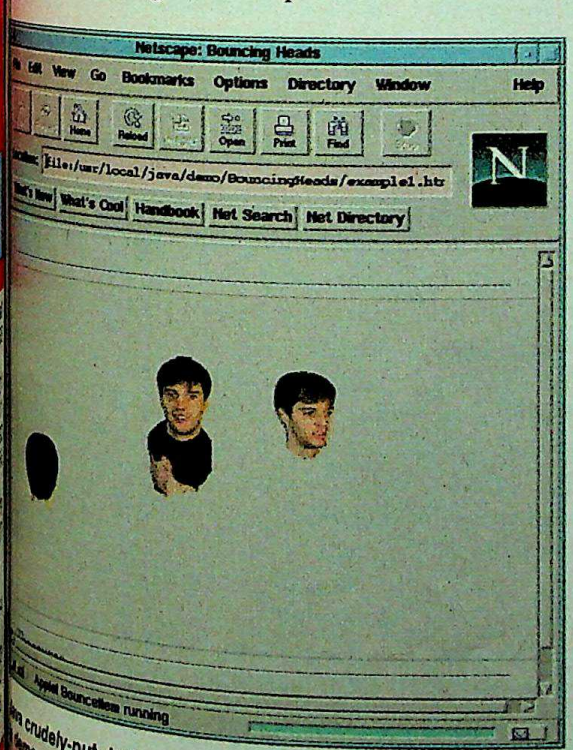
Then came the Net, and people kept bumping into other OS files. With Win 95 and NT, even Windows seems a diverse world. And soon there was a need for platform-independence again. The simplest way out without changing the OS was to look for an interpreter. Sun Microsystems got a means—the Java interpreter—for running their "executable" codes. Just where they wanted, never mind that the interpreter had been painfully ported to the target OS.



Duke the duck is a Java mascot

Interpreters being as slow as they are, and compiled code being as fast as it is, the makers of Java decided to strike the middle ground. Compile half-way, and interpret half-way, in that order. You cannot compile code if you have no knowledge of the machine you are compiling it for. So the Sun programmers decided on the specifications for a dummy machine, which served as a reference for all the compilation Java programs underwent.

This dummy machine spec happens to have become wonderfully detailed—with a dummy CPU and a dummy instruction set that looks like standard-issue assembly code. The dummy machine is now called the Virtual Machine, and its detailed specs are available widely on the Net—especially at `http://java.sun.com`. These specs have been released for any developer to create executable programs that would run on the Virtual Machine—if it ever existed. The attempts at building the VM are on.



Duke, crudely-put, is famous as a Web page animator: here's a demo

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The VM's executables are called Class files, and have their own formats, which is part of the VM specification. It is not necessary to go from Java code to Class files. You could use compilers that convert C/C++ code to Class. And these files (with the extension .class) would run wherever a Java interpreter existed.

Most commands of one CPU's machine code match with those of another. Instructions to load and move data, and add and subtract numbers form the basic building blocks of assembly programming and are often similar. Therefore, translating VM code to that of, say, the Pentium, would not be as slow as in conventional interpreting.

By making a little compromise both ways, much has been achieved. The vendor/architecture/platform independence that Java promises extends even to networking protocols and OLE.

After all that deductive archaeology, here's some real history as Java completes its first year. And as you probably know, Java was originally created to run home appliances such as microwave ovens, washing machines, and dishwashers. These rely more on hardware than software, and the former is susceptible to rapid changes in design. To avoid reworking the software, platform independence was thought of seriously.

Once the big idea of running a program anywhere was implemented, the makers of Java kept packing it with features. Using the Web as the medium to transport such files was just one of them. Enhanced security (with just a few bugs now) was a requirement. And ODBC-like connectivity is now planned.

It is getting really difficult to track what's happening in the Java world. Borland has seemingly committed to design a visual Java development tool. There is at least one Java clone (guavac) on the Net.

Thankfully, JDK (Java Development Kit) 1.0 seems fairly stable and documented. We shall use JDK 1.0 for most of our programming. The platform is, of course, left to you. You got JDK 1.0 for Windows 95 free with this issue on the PCQ Summer '96 CD-ROM. You can also download it from `ftp.javasoft.com`.

Installation

To install JDK on Windows 95 just run a .EXE file. If you have the Java 1.0 alpha 3 release (identified by the presence of the HotJava Web browser, that is available with Ver 1.0), keep the two distinct. You won't want to delete 1.0 alpha 3, the browser is good to play with. But it won't support all the programs created with JDK 1.0. To test applets (which I will cover later) you may have written, or demos you'd like to see, use the applet viewer in the BIN directory.

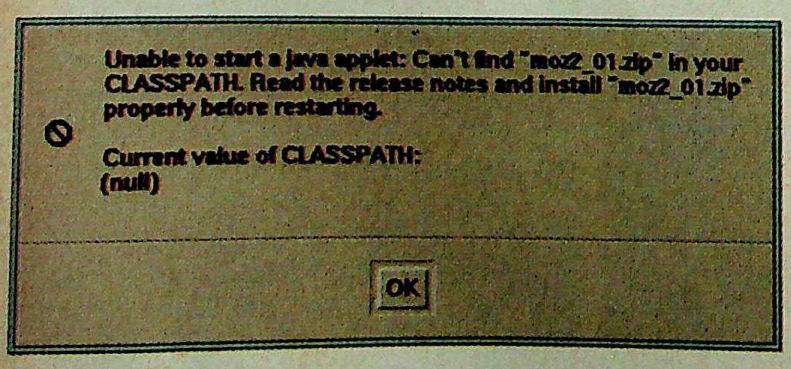
I did not need to set the environment variables CLASSPATH and JAVA_HOME, as recommended. But I suggest you do and put these lines in your AUTOEXEC.BAT, assuming that your JDK copy is in C:\JDK.

```
JAVA_HOME=C:\JDK;
CLASSPATH=C:\JDK;C:\JDK\LIB;<Any other places where you have .class files>
```

You would also need to put C:\JDK\BIN in your PATH to avoid typing C:\JDK\BIN\JAVA ... all the time.

Installation on a Sun OS 5.3 Sparc (whew!) was easy too. You will have to un-tar and gunzip the files. The same kind of CLASSPATH will work, but your C:\JDK would now probably be $HOME/JDK (assuming your JDK directory starts there). Also, don't use semi-colons to separate directories—use colons. JAVA_HOME, in this case, would be $HOME/JDK.

Linux (1.2.13) was a challenge. I had to move to ELF, and that meant long hours of playing with libraries and things. You end up with a disk full of two types of libraries—static and ELF (dynamically loadable). In case you succeed, remember to look at the file .java_wrapper. You should probably set J_HOME directly to wher-



This could happen to you in Netscape. Read the text to put it right

```
class HelloJava
{
   public static void main(String args[])
   {
    int i, sum;
   System.out.println("Hello Java!");
         sum=0;
          for(i=0;i<=10;i++)
          {
           sum+=i;
          System.out.println("i= "+i);
    }
   System.out.println("sum= "+sum);
    }
}
```

ever you have installed Java, and comment all the line before that. Your CLASSPATH would be<JDK root>/classes and the J_HOME would be<JDK root>. For a preliminary check, type java -version. The Sun OS and Win 95 versions say "1.0". My Linux Java says "chapree 02/02-10:58"!

It is a very good idea to get Netscape 2.01 (or later, if available), and get it running. If you try running any of the demos that come with the JDK using Netscape, you'll probably get the CLASSPATH error shown in the picture. You can get over this if you put the file moz2_01.zip in Netscape's root as part of your CLASSPATH.

```
CLASSPATH=$HOME/JDK/LIB:/usr/Netscape/moz2_01.zip:.
```

Remember to put the JDK classes before Netscape's classes. This caused problems on my Linux and Sun OS systems. Windows 95 was no hitch. Do not unzip any files you see with the .zip extension—especially src.zip, classes.zip and moz*.zip.

As an afterthought I put the current directory (.) in my CLASSPATH.

Now that your installation is over, look at the demos and their source. These few pictures should get you interested.

Compile the Java program in the usual way by saying

```
javac some_filename.java.
```

The extension is a must.

Then run it like this.

```
java HelloJava
```

Don't type HelloJava.class instead.

PV Subramanian for PCQ

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SMOOTH ACTION

The most comprehensive computerised software package fine-tuned for your personalised preference. It cares for every pros & cons of your organisation's accounts, be it a small fry or of a high profile.

ACE speaks of accuracy to its highest degree, with the friendly appearance in prompting you about the mistakes that might be committed by you, unmindfully.

It's versatility in various fields of accounts ranges from Sales Tax Register to Budgeted final Accounts. With Add-on-Utilities of Central Excise records, Off-line data entry & Lot Management Software for textile traders.

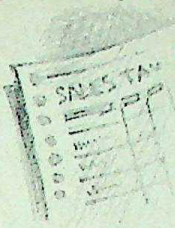
So, we cater you with the most economically reasonable Accounting Software - uncontested.

TM

%3+4 =5@ 2x÷1

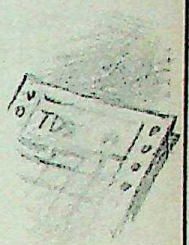
ACE

Business Accounting Software



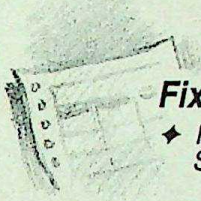
Sales Tax Register

- *Upto 12 user specified formula based columns*
- *Separate column for exempted sales*
- *Summary for Sales Tax return*
- *Includes details of Sales Return details*



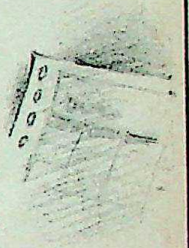
Income Tax Reports

- *TDS certificate (Form 16A) printing*
- *Loan details (summary & maximum amount o/s anytime during the year*
- *Cash expense details over a given amount*



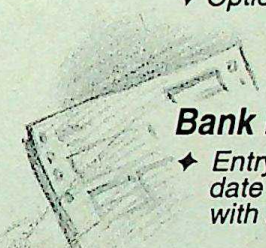
Fixed Asset Schedule

- *Fixed Asset schedule in Schedule VI format*



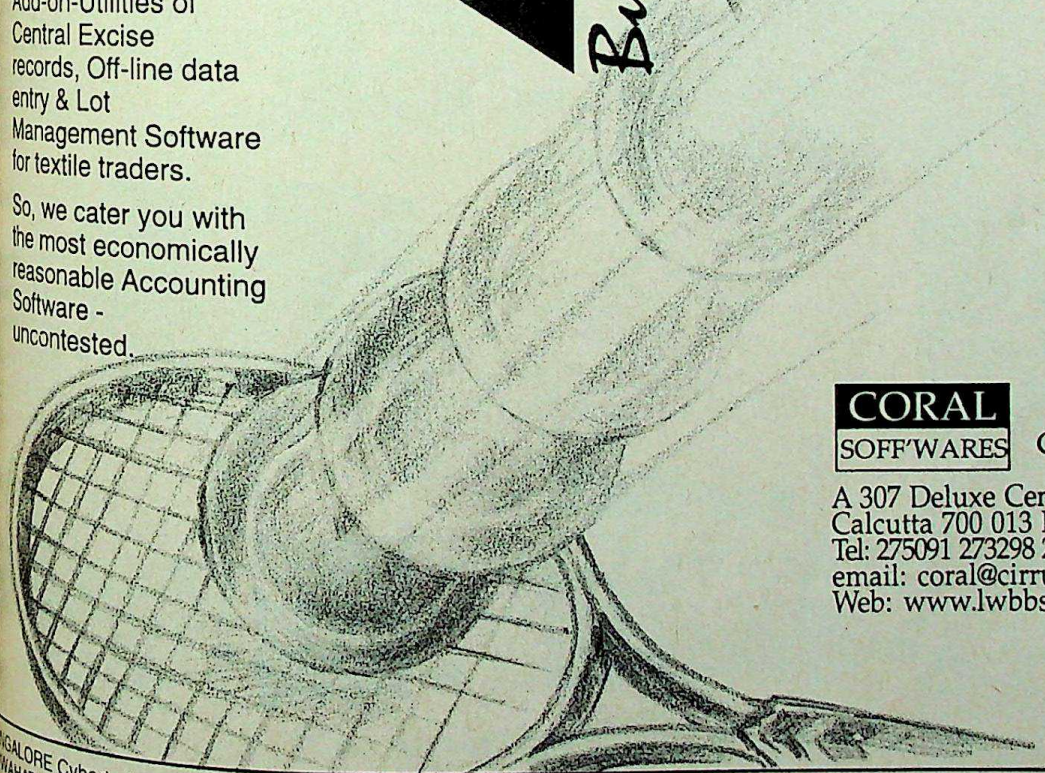
Interest Computation

- *Facility to compute loan*
- *OD interest*
- *Overdue interest on parties*
- *Interest as per* mitis *(vernacular calendar)*
- *Option to eliminate effect of interest element*



Bank Reconciliation Statement

- *Entry module for bank's clearing date enables quick reconciliation with bank statement*



CORAL SOFF'WARES

Coral Soff'wares Pte Ltd

A 307 Deluxe Centre 157c Lenin Sarani
Calcutta 700 013 India
Tel: 275091 273298 267238 Fax: +91-33-273298
email: coral@cirrus.lwbbs.com
Web: www.lwbbs.com/coral.html

BANGALORE Cybertrek Tech 2256325 2266371 Fax 2281231 DURGAPUR Aakash Cons. Services 87076 GOLAGHAT Systems N' System 20331
GUWAHATI Biju K Baruah 540575 Fax 548919 HYDERABAD Garnet 599829 JAMSHEDPUR Jupiter Systems Software 427471 Fax 431630
LUCKNOW Ebenezer Financial Consultants 72342 MADRAS Soft Source 582293 MUMBAI Compu Tree 5164713 5130794 Fax 5118278 NEW
DELHI Compro Computers 5758800 5739800 Fax 5754474 PATNA Computers Care 230007 dBUG Computer 659453 657919 Fax 660061
PONDICHERRY S R Computer 526375 27346 RANCHI Computers India 202020 208284 RANIGANJ Computer System & Soff'ware 446271 SHILLONG
Classic Computers 220244 Fax 223709 SILIGURI Gensoft Collections VARANASI Virgo Software 361984 Fax 355603 VIZAG 553225

Distributors: CALCUTTA Reliable Infotech Pvt Ltd 2211703 Telfax 2214212 Email ripl@cirrus.lwbbs.com
RAIPUR Vishnu Info 538359 SURAT Ambica Software 634152 Fax 629129

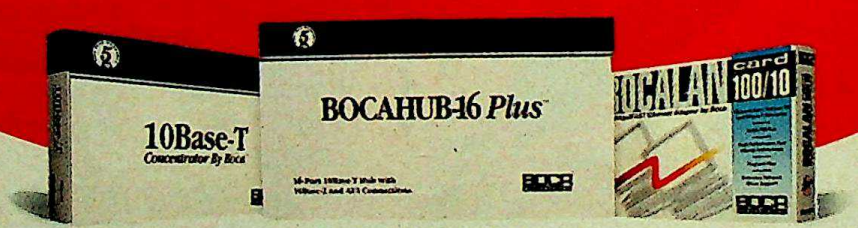
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BOCA Research, the industry's broadest range manufacturer of PC enhancement products here; through PowerTel BOCA (P) Ltd. The Indian joint venture is responsible for India Asia, Middle East and Africa. BOCA's current range of 50 products include Data Communica (fax/data/voice modems), Multimedia (video, telephony, sound, voice and data); and Networ products. BOCA products have won several awards and are recommended by experts as Buy." All BOCA products are manufactured in the U.S.A. and come to you with a 5 year warr PowerTel BOCA is now launching these products, for the professional, Corporate, Office/Home Office and consumer market places. So if you want to make your PC come insist on a BOCA Research Product. Or if you are interested in Channel Partnerships call us at 91-80-5543106 or e-mail *powertel@giasbg01.vsnl.net.in* or FAX 91-80-5288654

THE BEST OF AMERICA. AT PRICES THAT'RE QUITE INDIAN.

PowerTel Boca introduces a range of over fifty PC enhancement products.



NETWORK PRODUCTS

MULTIMEDIA COMMUNICATIONS
(VIDEO, TELEPHONY, SOUND, VOICE & DATA)

VIDEO GRAPHIC ENGINES

MODEMS & DIGITAL SIMULTANEOUS VOICE & DATA PRODUCTS

PowerTel BOCA RESEARCH INC

Making your PC come alive.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

POWERTEL BUSINESS PARTNERS: **Bangalore**-Future Computers 6650876/646024 **Mumbai**-Aims International, Ltd. 3891777 **Calcutta**-MCC Resources (P) Ltd. 4750044/747881 **Madras**-Megatrends Ltd. 85
New Delhi-Hytex Systems (P) Ltd. 4602882/4610601/4647881 **Pune**-Shanark Digital Systems (P) Ltd. 355762 **POWERTEL CHANNEL PARTNER:** **Hyderabad**-Comiga Communication 296935 **POWERTEL AU**
Bangalore-Intech 6631810/6654575 • Microcomp 2228952 • Sierra Technologies 2264747 • Total Solutions 3312264 • Veritas 5263720/5262977 • Webcomm 6603534/608673 **Mumbai**-Kolte Computers 614481
241041/242299/596452 **Pune**-Cubix Informatics 439743 **TANGERINE ET AL: Mumbai-Andheri**:633664172 **Bandra**:6457581/6 **Napean Sea Road**:3674611/3674711 **Churchgate**:2865455 **New Delhi**-

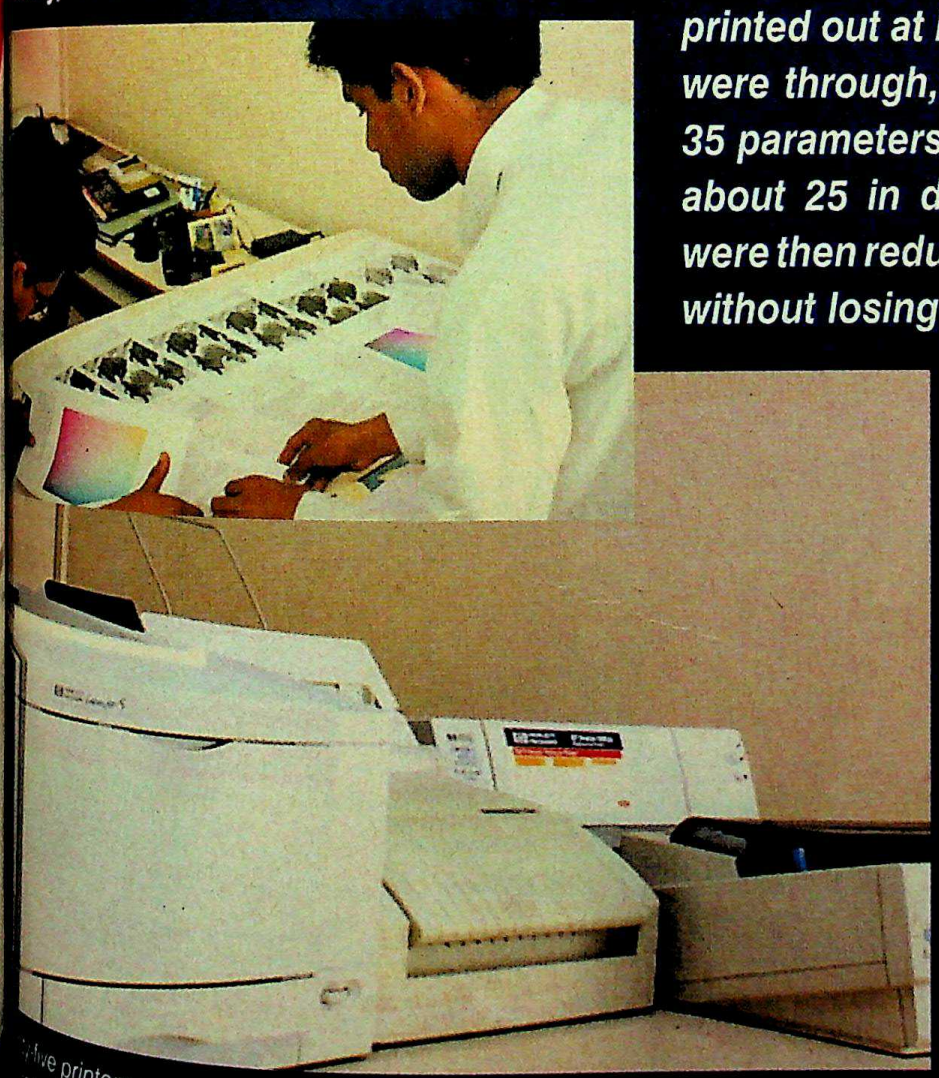
Digitized by Arya Samaj Foundation

The PC Quest Printer Shootout

PCQ Labs tests 25 printers — dot-matrix, inkjets and lasers

This turned out to be one of the most strenuous shootouts PCQ Labs has ever undertaken. The work started in nuary, when we began revamping our test suites. In March, we asked vendors for review models.

We spent all of May reviewing these 25 models. Over 2,000 test sheets were printed out at PCQ Labs. By the time we were through, we had measured about 35 parameters in lasers and inkjets and about 25 in dot-matrix printers. These were then reduced to manageable limits, without losing important information.



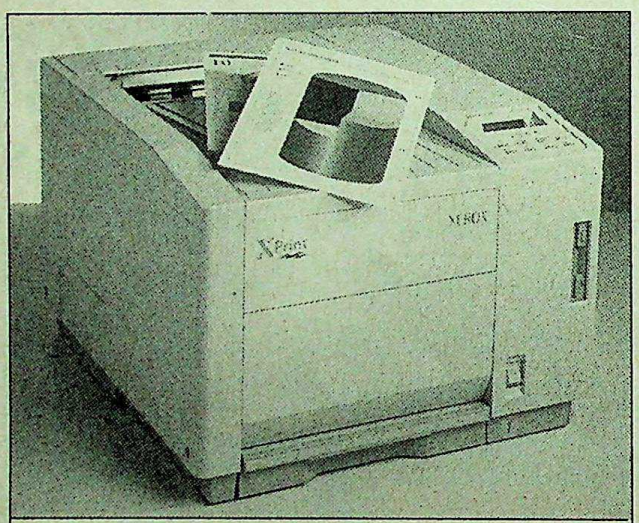
ty-five printers were pushed to their limits at PCQ Labs for over a month. ating over 2,000 test print sheets

One team worked full time on cross-checking the results, doing field verification of data supplied by vendors, and where necessary, redoing tests that appeared to give unexpected results. Many long nights later, here it is, the PC Quest printer shootout, an annual feature from this issue onward.

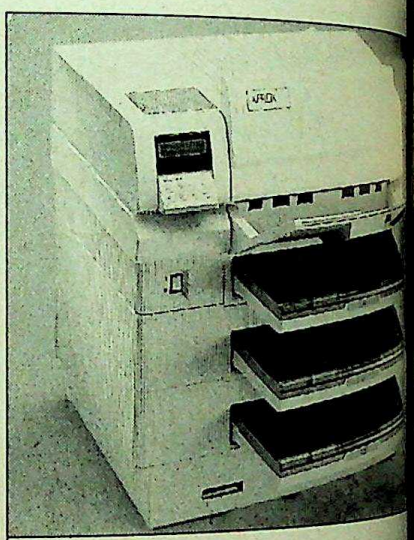
Digitized by Arya Samaj Foundation Chennai and eGangotri

Business, they say, is about making the right impression.

Modi Xerox printers show you how.



Xerox 4900 Opal
- High quality colour output • 1200 x 300 dpi resolution
- IBM PC & Macintosh connectivity.
- Media Server Kit – for printing without a computer



Xerox 4520.
- A3 size capability • 20 pages per minute
- 3 paper trays • Networking capability
- Hard disk option (125 MB)

For more information, do send this coupon to : Modi Xerox Limited, ODS Business Division, 8th Floor, Hemkunt Tower, 98, Nehru Place, New Delhi

Name : _____ Designation : _____

Company : _____ Address : _____

_____ Tel.: _____ Fax : _____

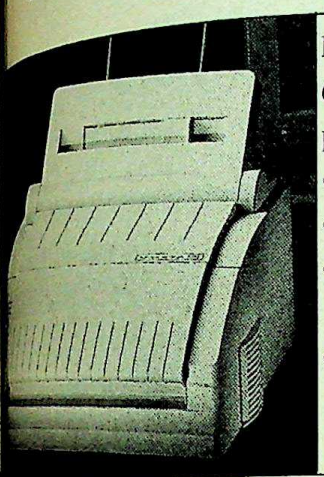
COPIERS ■ PRINTERS ■ FAX MACHINES

For more information on the Modi Xerox range of heavy-duty, mid-volume and low-volume copiers and Engineering Plan Printers, please contact
Business Units : • **North:** Modi Xerox Limited, Jagannath House, 33, Community Centre, New Friends Colony, New Delhi-110065. Tel.: 6854294, 6837[illegible]
(031)66745, Fax: (011) 6832836 • **North Central :** Modi Xerox Limited, B1/1, Kursi Road, Mahanagar Extension, Lucknow-226006, Tel.: 70551, 7576[illegible]
Fax: (0522) 76326 • **West :** Modi Xerox Limited, Nyloc House, 1st floor, 254-D-2, Dr. Annie Besant Road, Worli, Bombay-400025, Tel.: 4940656, Fax: [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection,. Haridwar

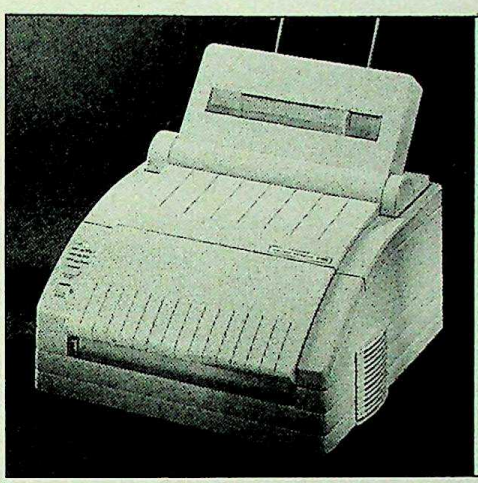
Digitized by Arya Samaj Foundation Chennai and eGangotri

Presenting the new line of printers from Modi Xerox.



Modi Xerox 6300 Laser printer

- 6 ppm speed
- Straight paper path
- Macintosh connectivity option
- Economode and Remote Printer Console

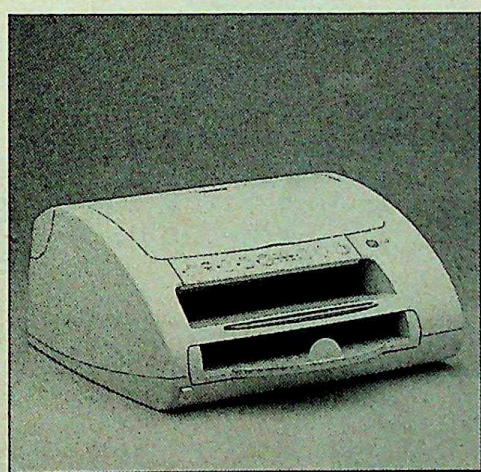


Modi Xerox 6600 Laser printer

- 6 ppm speed
- Macintosh connectivity
- Economode and Remote Printer Console
- 600 x 600 dpi
- Data compression
- PostScript option

Xerox 4510

- 10 pages per minute
- High resolution (600 dpi)
- Wide range of fonts
- Network connectivity options



Modi Xerox JP-450 Colour Inkjet Printer

- Quality colour printing
- High print speed (5 ppm)
- High resolution
- **Tractor Feed option for continuous stationery**

THE DOCUMENT COMPANY

MODI XEROX

Xerox, The Document Company Xerox/Rank Xerox and the stylised X are the registered trademarks of Xerox Corporation, U.S.A. and Rank Xerox Ltd., U.K.

OFFICE SUPPLIES ■ BINDERS ■ LAMINATORS.

Central : Modi Xerox Limited, Hasubhai Chambers, 5th floor, Near Town Hall, Ellis Bridge, Ahmedabad-380006, Tel.: 402838, 466413, Tlx: (0121) 6194, 427530. • East: Modi Xerox Limited, 107/1, Park Street, 3rd floor, Calcutta-700016, Tel.: 296348, 296349, Tlx: 4467, Fax: (033) 297709 • South: Modi Xerox Limited, Akshaya Commercial Complex, 26, Victoria Road, Bangalore-560047, Tel.: 569257, 5569259, Tlx: (0845) 2971, Fax: (080) 5543653.

LINTAS DeLPR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

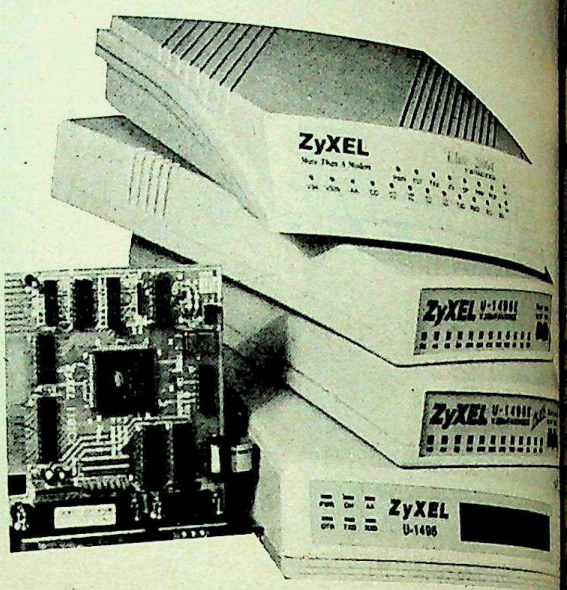
WHICH ZyXEL IS YOURS

Almost every true Data Communication Professional trusts & swears by ZyXEL; The Voice/Data/Fax Modems that connect and work where every other Modem has failed.

ZyXEL! the Datacom Professionals choice is now available in India in a wide range of models from 14.4 kbps to 28.8 kbps.

Pick up the Model/s, best suited to you and get a very pleasent surprise - that ZyXEL data communication can be so fast, efficient reliable and cost effective.

This is ZyXEL reliability.



Another pleasent Surprise! We offer all connectivity in a matter of Days.

Just Fax us your All-India requirement, including addresses of locations to be connected throughout the country.

Team ZyXEL is ready, waiting and waiting to say

This is ZyXEL Service.

ZyXEL

VOICE/DATA/FAX MODEMS

WITH CELLULAR SUPPORT

EDP AIDS PVT LTD

B-32, Lajpat Nagar-2
New Delhi-110 024
Phones (11) : 683 3192, 684 6299, 684 6
Fax: (11) : 684 6299
E-Mail (Sprint Mail) : edp.aids/edpa
X-400 : (C:IN,A:VSNL,P:SPRINTRPG,
O: EDPA, FN:EDP,SN:AIDS)
Internet : edp.aids@edpa.sprintrpg.sprint.com

* Associates: Xon Communications Pvt. Ltd.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Printer Shootout

How we tested the printers at PCQ Labs

The last year saw a dramatic increase in the number of printer models available in the country, particularly inkjet printers, with a host of new features. With so many new entrants, we felt it was time for a comparative look at the printers. We were expecting about fifteen printers, but ended up reviewing 25 units (One reason why the issue is late in reaching you).

This shootout covers printers meant for general home and office use. We haven't taken up specialized ones like pass book and label printers or multi-function units. Barring TVSE, all major brands are represented. In spite of repeated follow up, we could not get any models from TVSE for review at PCQ labs.

We classified the printers into four categories:

MONOCHROME LASER PRINTERS
HIGH-END INKJET PRINTERS
MID-LEVEL INKJET PRINTERS
DOT MATRIX PRINTERS

For the lasers and inkjets, we used similar test suites, while for the DMPs we had a totally different set. For ranking the printers we developed three sets of parameters involving speed, quality of printing and other features (including price and warranty). The weightage for each parameter was determined using the Brown-Gibson model. Results of these three sets were combined to arrive at the final rankings.

The Test Bench

Performance testing was done on Pentium/100 machines with 16 MB RAM. The operating system used was DOS 6.0 with Windows 3.11. The printer was connected to the local port of the computer using the cable provided by the manufacturer when it was part of standard equipment. Otherwise, we used a standard cable. For lasers and inkjets, the speed tests were done from Word for Windows and graphics testing was based on Corel DRAW 4.0. For dot matrix printers, we used DOS 6.0's Edit, Word 5.0 for DOS and word 6.0 for windows.

All speed tests were repeated twice and the average of the two was taken. In case the difference between the two readings was outside the acceptable limits, the test was repeated a third time, and the average of the nearest two was used. For qualitative tests, we performed the test once, and if the result was particularly poor, it was repeated once more and the best of the two was considered. All tests were done in the best mode of the printer, and in the draft mode.

The Parameters

As stated earlier, we developed three sets of parameters on which we ranked the performance of each printer. Given below are the parameters and the weightages assigned to them for each category.

The marks scored by each printer in each of the above was calculated as:

(Maximum time taken by any printer for that parameter/time taken by that particular printer) x Weightage assigned to the parameter

Ranking of quality was done on a comparative basis. If there are five printers being compared then the best gets five points and the worst, one point. The points are then multiplied by the weightage to arrive at the scores. Text printing includes the smallest font size printed that's clearly readable, and the jaggedness produced in text of various font sizes.

For list price and cost of consumables, we used the same ranking methodology as used in the speed tests. For ranking warranty, one point was awarded for every one year or part thereof. Every additional driver got one point. If the printer was plug-and-play capable, it got a one otherwise it scored a zero.

Other Special features for laser

Weightages for Laser Printers

Speed	
Time for first page of a multi-page file	29
Average speed per page for a multi-page file	24
Time taken for printing a single page with two non-resident PostScript fonts	19
Time taken per page for multiple copies	14
Time taken for printing a single page with a small graphic and text	9
Time taken for printing a full page graphic	5
Total	**100**
Quality	
Quality of full page graphic	29
Quality of fountain-fill	24
Quality of lines in different angles	19
Thickness of wedge patch	14
Text printing	9
Print area	5
Total	**100**
Other features	
List price	29
Cost of consumables per 1,000 pages printed	24
Warranty period	19
Drivers for other operating systems	14
Plug-and-Play	9
Other Special features	5
Total	**100**

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

printers is the only subjective parameter of this shootout. Points are awarded on a 1-to-5 scale for features like compactness, ease-of-installation and driver options.

Inkjet Printers

For inkjets, the test methodology was similar to the lasers. In color inkjets, we also tested the ability to reproduce accurately, variations of CMYK combinations, and the quality and time taken to reproduce a full page color graphic.

In printers where the manuals or drivers specifically recommended using the best mode of the printer only with special paper supplied by the vendor, the next best mode was used with the standard test paper. Test prints (graphics) taken on special paper recommended for the top ranking printers were also taken into consideration when arriving at the final rating.

The inkjets were divided into two subsections, printers below Rs 22,000, and models at and above Rs 22,000. For speed and quality, we considered all the printers as one set. For other features, we did the ranking separately for the two groups, and then combined them.

Weightages were assigned for inkjets as mentioned in the box.

The marks scored by each printer in each of the the sets was calculated in the same way as for laser printers.

Weightages for Inkjet Printers

Speed	
Average speed per page for a multi-page text file	29
Time taken to print a full page color graphic	24
Time taken for a full page monochrome graphic	19
Time taken for printing a single page text file with two non-resident PostScript fonts	14
Time taken to print a single page with text and a small graphic	9
Average speed per copy for multiple copies of a single page text file	5
Total	**100**

Quality	
Quality of full page color graphic	
Quality of a full page monochrome graphic	
Quality of color mix	
Quality of monochrome fountain-fill	
Quality of text printing	
Wedge patch	
Total	

Other Features	
List price	
Cost of color cartridge per page	
Cost of back cartridge per page	
Warranty period	
Total	

Ranking was again similar to that for laser printers.

The three sets were normalized so that the relative importance of each of the sets was maintained in the final ranking.

Dot-Matrix Printers

Internationally, the DMP is on the decline and India too has been witnessing an invasion of inkjets and lasers. But there's still a huge market for dot-matrix printers out here. Used extensively for high-volume, multi-part printing jobs, the DMP is indispensable in pass books, ledgers, invoices...

The Test Suite

The test suite for DMPs comp tests for speed, quality, multi-part ing, printing from Windows and handling. We tested the printers modes—Draft and LQ. Since printing is an important function DMP, we ran separate tests on and 132-column, five-part carbon rated continuous stationery. dents of paper jamming were also Another feature considered was nar printing and alignment. None DMPs came with any software worth mentioning.

Parameters used in ranking

The three sets of parameters the ranking of the DMPs are given box.

These were normalized so relative importance of each was maintained in the final

Read on to find the results most comprehensive printer ever.

The test suite was developed at PCQ... Krishna Kumar and Asawari Ketkar. done by Asawari Ketkar, N Balaji, ... Gandhi, Meghna Bhatia, N Magesh, M...

Weightages for Dot Matrix Printers

Speed	
Average speed in cps—Draft mode for an ASCII text file	31
Average speed in cps—NLQ mode for an ASCII text file	25
Print speed for text in columns under NLQ mode	25
Print speed for columnar text in condensed mode	13
Speed of printing in Windows under NLQ mode	6
Total	**100**

Quality	
Readability in last form of multi-part stationery	33
Text alignment in multi-column printing	26
Quality of condensed column text	20
Quality in Draft mode on five-part stationery	13
Quality of Windows document	8
Total	**100**

Other Features	
List price	50
Warranty period	33
List price of print head/ million characters	17
Total	**100**

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Brother 6300

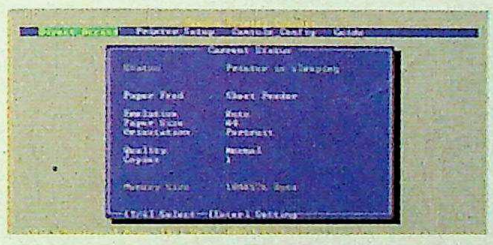
A fast and low-cost 300 dpi laser printer

ood printing speeds and print qual- ty makes the 6300 the Editor's Choice for an entry level, low cost laser printer.

e Brother 6300, sold in India by Xerox, is a sleek, compact model a slightly unusual paper tray set e top of the printer and inclined There are two switches on the anel, one for Select/Reset and er for Form Feed/Continue/Test. er look at the back panel revealed e switch for selecting between osh and PC. There is also an ble dial (requires a screwdriver) e tuning print density.

e printer has an EconoMode which ot accelerate the speed of printing, it merely reduces ink consumption.

In our speed tests, the 6300 came in second, after the LJ 5. Interestingly, the 6300 produced the fastest graphics printouts, with the full page graphic being printed out in 21.82 seconds, as against the 40.29 seconds taken by the HP 5P. In quality, it stood third after the two HPs. It came out to be the best in quality of fountain fill and wedge patch. But what really makes this one outstanding is its absolutely low price (almost at inkjet levels) and low cost of consumables.



The 6300 has a simple remote console that displays the current status of the printer

RATING:

PRODUCT: Brother 6300

TYPE: 300 dpi monochrome laser printer

SPEED: Text: 15.25 seconds/page; Graphics: 21.82 seconds/page

SUMMARY: Low-cost 300 dpi no-frills printer with good text and acceptable graphics printing

PRICE: Rs 29,000

RQS #E0640

HP LaserJet 5

A fast laser with top quality and features

he 600 dpi LaserJet 5 marks the debut of PCL6. The front panel has a 16-character display and six buttons for selecting menu s. It has two paper trays, one for heavy-weight paper and the for standard 70 gsm media. You so add another 500-sheet tray.

ng up the LJ5 is simple. The et utility provides a host of s including the ability to rd protect the printer. You can from a standard driver that's ckward compatible with other use the enhanced one that SIWYG performance. The LJ5 wo modes—best (600x600 dpi) ft (300x300 dpi). The software also includes a status monitor, for updates on the printer status if you have a Bitronics port and compatible cable. There is also provision for wireless printing.

The manual states that the enhanced driver gives better speeds. This is true for text printing, but graphics with the enhanced driver took more time, though the quality was worth the wait.

The LJ 5 delivered impressive speeds, and in fact topped the list. The output quality was also way ahead, logging a total of 1.77 points, with the nearest contender, the HP LJ 5P scoring 1.35. It's only natural that such heavy duty all-round performance will command its own price. At Rs 85,600, this is the costliest model reviewed. In performance however, it has no rivals and bags the Editor's Choice in monochrome laser printers.

RATING:

PRODUCT: HP LaserJet 5

TYPE: 600 dpi monochrome laser printer

SPEED: Text: 9.4 seconds/page (Standard driver-Best mode); Full page graphics: 40.29 seconds/page (Standard-Best mode)

SUMMARY: A blazingly fast printer which gives excellent quality as well. Worth the price.

PRICE: Rs 85,600

RQS #E0641

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Internet, The Easy, Inexpensive Wa

Looking for an easy, inexpensive way to set up your Web on the Internet? Take a serious look at D-Link's DI-1150 remote router.

Designed for the non-expert, ordinary users, this router provides an instant and effective solution to interconnecting a Web server to the worldwide Internet. Extremely flexible, low-cost and easy to use, DI-1150 will get your internetwork up and running fast in any moment.

D-Link's router provides high-speed remote links on leased lines, most suitable for a Web site. In addition tor routing Internet data, it also supports data routing among the popular Novell NetWare networks. Its dual WAN connections provide backup security on the remote links, while its industry-standard WAN protocols support guarantee you complete interoperation with all other remote networks.

For a fast and simple way to catch on with the Internet wave, call us today for full information.

D-Link DI-1150 Remote R

- ✔ Dual WAN ports
- ✔ High-speed RS-232, RS-422/449, V.35 remote links
- ✔ WAN speed up to T1/E1 (1.544/2.048 Mbps)
- ✔ IP and IPX packet routing
- ✔ User-configurable routing table
- ✔ Industry-standard WAN protocols: PPP, Frame Relay, X.25
- ✔ Transparent bridging and Spanning Tree supported
- ✔ Auto-sensing LAN interface supports 10/100 Ethernet media

D-Link®
Commitment to Connectivity
D-Link(India) PVT. LTD.

Goa Factory: TEL:0834-783393-4 FAX:0834-783395
Bangalore(South Region): TEL:080-6628751 FAX:080-6603583
Bombay (West Region): TEL:022-6172478/6112696 FAX:022-6172476/6113503
Delhi (North Region): TEL:011-6217074 FAX:011-6851530
Calcutta (East Region): TEL:033-2214317/2214318 FAX:033-221117

D-Link is a registered trade mark of D-Link Corporations. Specifications are subject to change

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HP LaserJet 5P

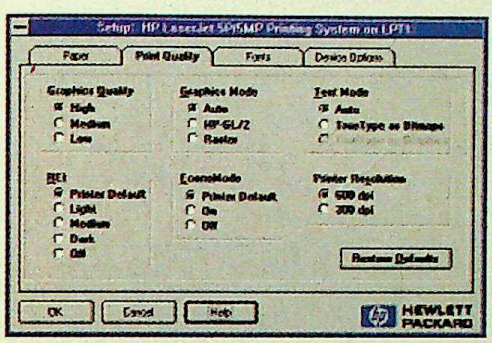
A mid-range laser with good quality and features

The HP LaserJet 5P is a compact 600 dpi printer using PCL5. It has large and small parallel ports, a Macintosh port and an ...ed port. There is a set of five LEDs ...wo buttons on the front panel. It ...wo input trays, one for holding ...dard paper and one for other statio... Based on the 20 MHz Motorola ... processor, the LJ5P comes with ...rs for PCL Windows, Macintosh and ... The Windows driver allows ...ng under 300 dpi and 600 dpi with ...graphic quality set at high, ...m or low. The medium and low ...s are faster, and produce output in ...t half as much time as the high ...

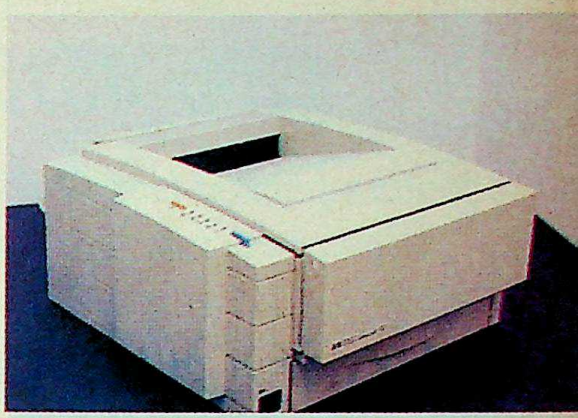
...r full page graphic test took around 55 seconds in the best mode. Though it took 27 seconds in medium mode and 26 seconds in low, quality took a beating. EconoMode makes your text slightly jagged, but it's perfectly acceptable for drafts.

In our speed tests, the 5P lagged behind all the lasers reviewed. In quality, it came second, behind its sibling—the LJ5. The quality of prints, particularly text was crisp.

On the whole, the LJ 5P is suitable for mid-level use or for drafts and proofs.



The LJ 5P, like the LJ 5, offers a wide variety of print quality options



RATING:

PRODUCT: HP LaserJet 5P

TYPE: 600 dpi monochrome laser printer

SPEED: Text: 15.73 seconds/page (Best mode); Graphics: 55.30 seconds/page (Best mode)

SUMMARY: The LJ 5P produces good quality print outs but at the cost of speed. Good for mid-level use.

PRICE: Rs 56,370

RQS #E0642

NEC SS 660i

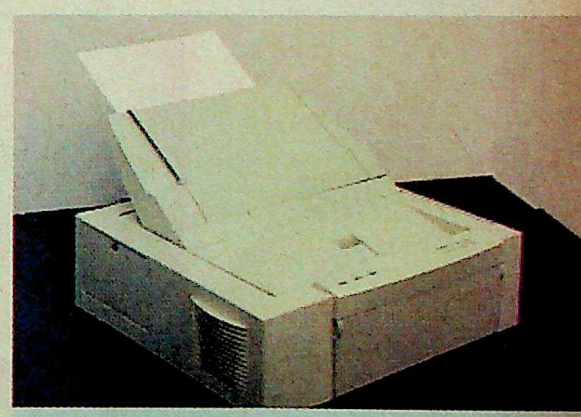
This laser's good with text, but low on graphics quality

The NEC SilentwriterSuper-Script 660i, is GDI-based, but also has PCL5e emulation. ...Driver installation for DOS and ...ows is fast. On Windows 95, we ...d that the printer wasn't Plug'n ...compatible.

...rketed in India by Digital World, ...60i comes with its own Print Man... ...You choose between GDI and PCL ...ation from here. The Printer Status ...ow does a lot more than just show... ...e status. It has an animated se... ...to guide you on cartridge instal... ...and paper feed. There's also a ...darkness option to control the ink ...y.

We tried to change the setting to light but didn't see much of a difference. The 660i's printer driver offers extra features for duplex printing, brightness and contrast control, printing to file, and scaling. There's also a Toner Saving mode (similar to HP's Economode) which is good for text and draft graphics prints. You can also switch the Sharp Edge technology feature (designed to reduce jagged edges in line art and curves) on or off.

The 660i's text output was acceptable with very little jaggedness. The graphics tests showed up some banding under 300 dpi, but this reduced at 600 dpi. Printing speeds were fair at 17.17 seconds per page in text and 34.56 seconds in graphics printing. This printer came last in both the speed and quality parameters. While its speeds were acceptable, the other printers were simply faster. And in graphics, the 660i could do with better quality of output.



RATING:

PRODUCT: NEC SS 660i

TYPE: 600 dpi monochrome laser printer

PRICE: Rs 48,500

SUMMARY: A reasonable printer for text printing. Poor graphics quality. Offers GDI and PCL5e emulation.

SPEED: Text: 17.7 seconds/page. Graphics: 34.56 seconds/page

RQS# E0643

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Xerox 4510

A feature-packed laser that's blazingly fast with text

Unlike most modern printers which come with just a couple of buttons and an equal number of LED indicators, the Xerox 4150 sports a two-line LCD display with a cluster of eight switches on the front panel.

Our attempts to install the DOS and Windows drivers proved quite fruitless—both refused to acknowledge the presence of the printer, though we had no problems printing using commands like dir>prn. Finally we installed the driver from the Windows Control Panel and things proceeded smoothly after that.

This printer is blazingly fast in text printing. In our multi-page tests, we actually found it hard to record the time for each page to be completed. Evidently, the driver also contributed its bit by producing smaller spool files. However, while trying to print the graphics test image, the printer responded with a "Page too complex" message—the only printer to do so. A look at the manuals showed that by increasing the memory allocation, we could set up a page protection scheme that would sort out this problem.

In our full-page graphics test, the driver produced a spool file slightly greater than 1 MB, compared to the 13 MB plus files produced by some printers. But then it went on to take 106.86 seconds to print the page—the longest timing in our tests, In quality of graphics printing, the 4150 has a lot of catching up to do.

If you are looking for a good fast text printer, without heavy-duty graphics, then this is the printer for you.

RATING:

PRODUCT: Xerox 4510.

TYPE: 600 dpi monochrome laser printer

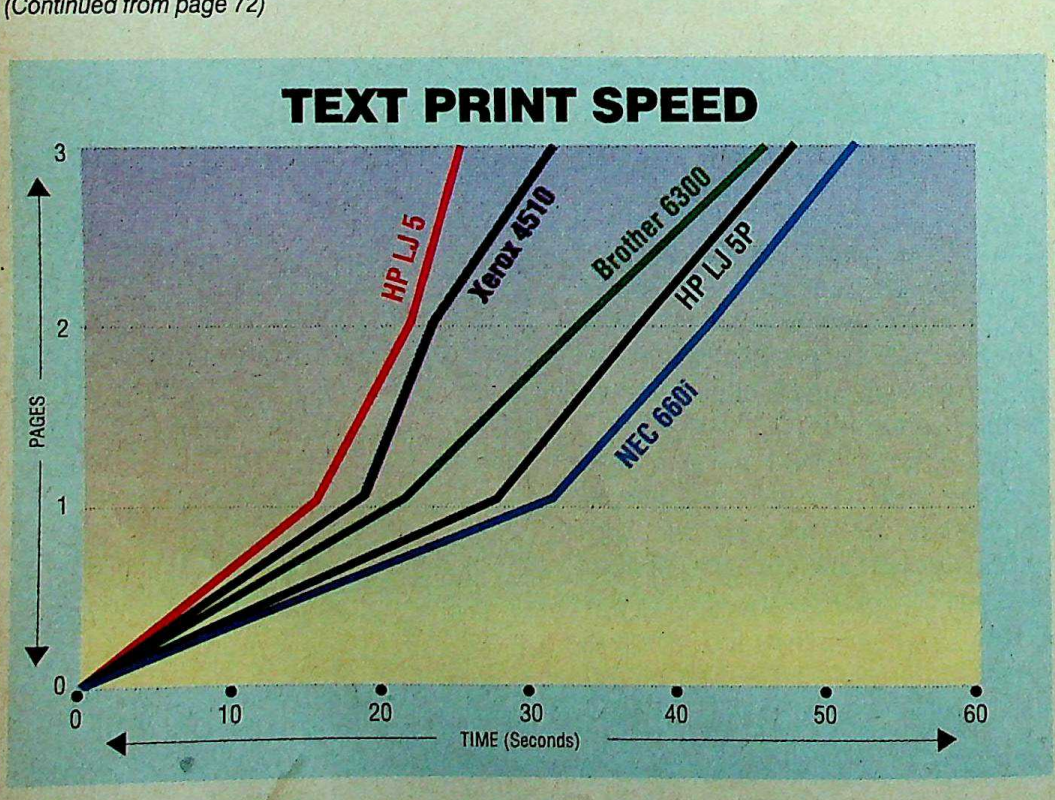
SPEED: Text: 11.99 seconds/page; Graphics seconds/page.

SUMMARY: A fast text printer with average performance. Delivers good quality text

PRICE: Rs 67,500

RQS #E0644

(Continued from page 72)



The performance of the lasers when printing a multi-page text file. This is the type of printing that the printers are used for most often. The graph shows the time taken to print the first three pages of a multi-page text file.

The Editor's Choice is awarded to the best printer overall. We take into account text printing speeds, graphics printing speeds, quality of text output, quality of graphics output, and other features, including the list price of the printer. However, different printers are designed for different types of use. The need of the user also varies widely. This should be kept in mind while choosing a printer for your needs, or while choosing the Editors Choice with your own experience.

It is to help you in doing this that we are publishing the detailed methodology and results of our tests. You should select only those tests which have a direct bearing on your needs—for example, if your need is predominantly text printing, you select the text printing tests. Applying your own weightages you can arrive at your rankings of the printers, using the actual results of our tests.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Laser Printers

How the lasers performed

In this section we looked at five monochrome laser printers. Ranging from the entry-level Brother 6300 sold by Modi Xerox to the heavy-duty, soon-to-be-released HP LaserJet 5 debuting at 6.

On completion of the tests, we calculated the points for each one. HP's LaserJet 5 was the winner followed by a surprising close runner-up, the Brother 6300.

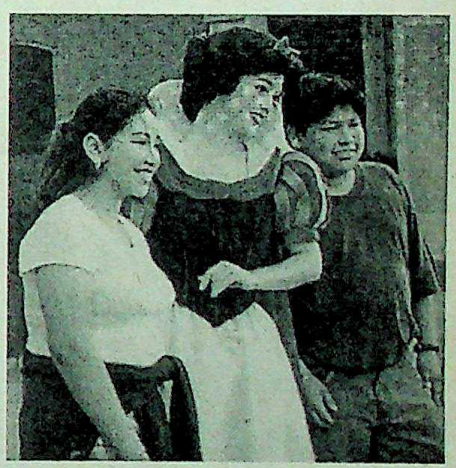
Shown below is a sample output printed on each of the printers. You can easily judge the quality of graphics reproduction from this.

The Scores

Printer	Vendor	Points
Brother 6300	Modi Xerox	4.96
HP LJ 5	Hewlett-Packard	5.01
HP LJ 5P	Hewlett-Packard	3.71
NEC SS 660i	Digital World	3.15
Xerox 4510	Modi Xerox	3.92

The original graphic output on an image scanner

The BROTHER 6300 was fast and the quality was acceptable for an entry-level 300 dpi printer



The HP LASERJET 5 gave excellent graphics at high speeds with very little pixelation

The HP LASERJET 5P came second overall with graphics quality with consistent performance in all the graphics tests.

The NEC660i produced heavy blacks with little detail and almost no greyscales

The Xerox 4150 also produced good quality (particularly in text output), but took its time producing graphics prints

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SPEED

Printer	First sheet	Per page	Post script	Per copy	Text+Graphic	Full graphic
Brother 6300	20.83	15.25	25.98	13.27	20.54	21.82
HP LJ 5	18.40	9.40	22.64	9.43	23.68	40.29
HP LJ 5P	28.11	15.73	33.11	17.46	34.63	55.30
NEC 660i	31.51	17.17	28.98	16.71	33.05	34.56
Xerox 4510	24.42	11.98	23.99	11.57	26.59	106.86

Time in seconds.

Notes—*First sheet:* *Time taken to output the first sheet of a multipage text file*
Per page: *Average time per page to output a multipage text file*
Post Script: *Time taken to print a single page text file with postscript fonts*
Per copy: *Average time taken to print multiple copies of a single page text file*
Text+graphic: *Time taken to print a single file with Type text and a small graphic*
Full graphic: *Time taken to print out a full page graphic*

QUALITY

Printer	Graphic	Fill	Patch	Line	Text	Print area	Total
Brother 6300	0.35	0.48	0.08	0.28	0.04	0.10	1.32
HP LJ 5	0.58	0.38	0.38	0.22	0.11	0.10	1.78
HP LJ 5P	0.35	0.29	0.30	0.17	0.14	0.10	1.35
NEC 660 i	0.12	0.19	0.23	0.06	0.07	0.02	0.68
Xerox 4510	0.46	0.10	0.15	0.11	0.18	0.10	1.10

Notes—*Quality of output of a fountain fill*
Patch: *Sharpness and size of wedge patch (smaller the better)*
Line: *Quality of straight lines at different angles*
Text: *Quality of text output, including readability of small fonts*
Print area: Maximum area that the printer can print on

OTHER FEATURES

Printer	Price	Consumables	Warranty	Drivers	PnP	Others	Total
Brother 6300	0.86	0.65	0.19	0.28	0.09	0.05	2.11
HP LJ 5	0.29	0.26	0.19	0.56	0.00	0.20	1.50
HP LJ 5P	0.44	0.24	0.19	0.28	0.00	0.10	1.25
NEC 660 i	0.51	0.35	0.19	0.14	0.09	0.05	1.33
Xerox 4510	0.37	0.33	0.19	0.42	0.00	0.15	1.46

Notes—*Consumables:* *Cost of consumables per 1,000 pages*
Drivers: *Additional drivers, OS support*
Others: *Includes driver features, ease of installation, etc.*

(Continued on next page)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

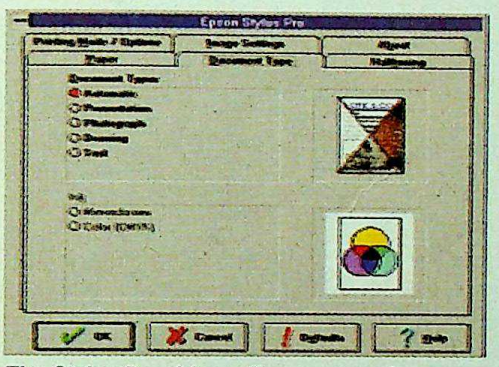
pson Stylus Pro

igh-end inkjet with superb or output on special paper

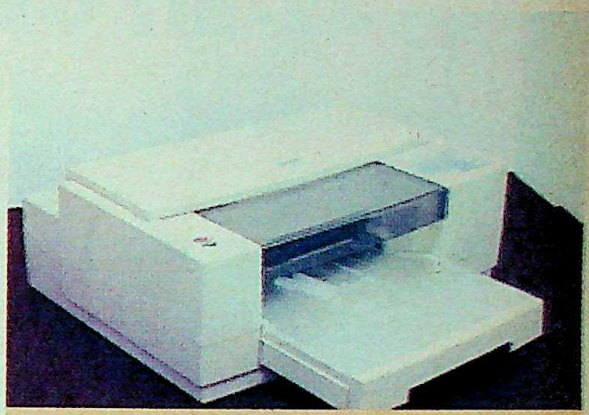
t Rs 35,900, the Stylus Pro is the costliest inkjet reviewed. It is clearly targeted at the high-end color printing/proofing segment. ation took a little time. On power- the print heads raced to the far nd got stuck. A bit of tweaking ver got the printer running fine.

e printer driver is loaded with fea- You can set the document type presentation, photo, text, etc), size and source, half-toning, and modes (720, 360 or 180 dpi). At 360 print quality was good, despite some ness in the smaller fonts. ing was negligible. The monochrome st print had rich blacks and grey-scales. The CMYK combina- nd graphics tests also yielded impressive results.

Color output in draft mode was also very good quality. At 720 dpi, particularly with special coated paper, the output was superb. (See sample print on page 80. It was a close race between the Stylus Pro and the HP 820 Cxi for the top spot in the color inkjets category. (However, the Stylus Pro, lost on features and price.) It fared well in the quality tests, other than text quality. Curves and lines were remarkably smooth.



The Stylus Pro driver offers an amazing array of printer settings



RATING:

PRODUCT: Epson Stylus Pro

TYPE: 720x720 dpi color inkjet printer

SUMMARY: An ideal printer for high-end color printing. Impressive array of driver options. Gives very high quality outputs at reasonable speeds.

SPEED: Text: 37.09 seconds/page; Color Graphics: 131.38 seconds/page.

PRICE: Rs 35,900

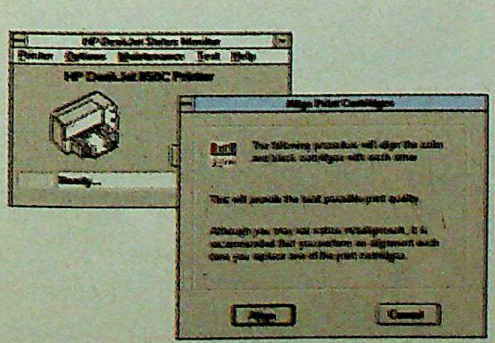
RQS #E0645

HP DJ 850C

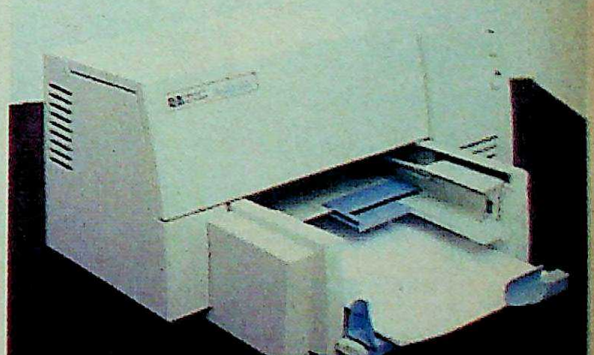
mpact inkjet with superb color on normal and special paper

he 850C ships with drivers for Windows and Macintosh. It's olor and black cartridges load simultaneously. HP's standard re includes *the ColorSmart* driver, kJet tutorial and *Status Monitor*. 850C produced crisp text and s. In fact, it is one of two printers er being the HP 820 Cxi) to pro- nsistent high quality output in ity tests and scored 2.97. In the eats too, it was an above average er. The 850C clocked 40.12 sec- s for a text page, and 152.36 s for a full page graphics. 850C gives better economies than er HP printers in CMYK printing e in second in features to the l winner, the 820 Cxi.

The 850C was a hot contender for the Editor's Choice. It finally came in third. At PCQ Labs we did an interesting exercise, determining which one feature, if changed, would have made each of the printers the Editor's Choice, other things remaining the same. In the case of the 850C, we found that if the list price of the 850C and the 820 Cxi were interchanged, then the 850C would have shared the top spot with the Stylus Pro from Epson.



The driver includes a test for print head alignment and nozzle cleaning



RATING:

PRODUCT: HP DeskJet 850C

TYPE: 600dpi Color inkjet printer

SUMMARY: Good color quality. Supports DOS/ Windows and Mac.

SPEED: Text: 40.12 seconds/page; Color Graphics 152.36 seconds/page

PRICE: Rs 28,899

RQS #E0646

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Windows® 95 and Windows NT™

CorelDRAW™ 6
AN AWARD-WINNING 32-BIT GRAPHICS APPLICATION

INCLUDES:
- CorelDRAW™ 6
- Corel PHOTO-PAINT™ 6
- CorelDREAM 3D 6
- Corel MOTION 3D 6
- Corel PRESENTS™ 6

Take advantage of the full potential of Windows® 95 and Windows NT.™

With awesome speed, power and accuracy plus hundreds of enhancements, CorelDRAW™ 6 is an exceptionally versatile graphics software suite. CorelDRAW™ 6 offers fully featured software applications for illustration, photo-editing and bitmap creation, business and multimedia presentations, 3D rendering and animation. Also includes eight great utilities and incredible libraries.

PLUS:
- ***25,000 clipart images and symbols***
- ***1,000 photos***
- ***1,000 TrueType® and Type 1 fonts***
- ***Over 750 3D models***

This advertisement has been designed exclusively with CorelDRAW 6.

Enter the Corel $3,000,000 World Design Contest! (September '95 to July '96)
To receive a faxed copy of the contest rules and an entry form, please call:
With a touch-tone phone: +1-613-728-0826, ext. 3080, Document # 1125.
With a rotary-dial phone: +1-613-728-8200, ext. 81609. To send a fax: +1-613-728-2891.

Designed for Microsoft® Windows® 95

Corel and CorelDRAW are either trademarks or registered trademarks of Corel Corporation in Canada, the United States and/or other countries.

Microsoft, Windows and the Windows logo are either registered trademarks or trademarks of Microsoft in the United States and/or other countries.

DATAPRO INFOWORLD LTD.	SVAM SOFTWARE	WIPRO LTD. Software Products Division
Tel: 212-638975	Tel: 11-3731844	Tel: 80-2233534
Fax: 212-634813	Fax: 11-3723266	Fax: 80-2218590

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

p DeskJet 820 Cxi

perb, low-cost output on all types of paper make this inkjet a winner

he 820 Cxi wins the Editor's choice ahead of the Epson Stylus Pro by a whisker.

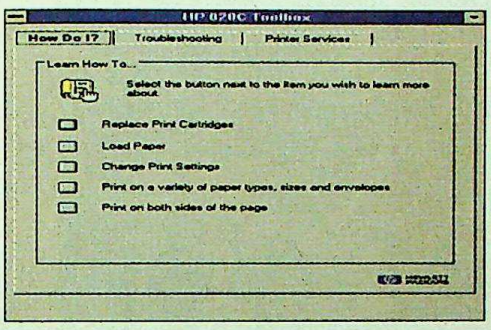
The 820 Cxi is an ultra-compact el with a minimum number of but- on the front panel: Power On/Off Resume. Apart from two LEDs for e functions, there is another for in- ing cartridge problems.

stalling the drivers was trouble- Like other HP inkjets, this one also s in three modes—Best, Normal and Fast.

the fonts test, the printer yielded llent results. The smallest readable as four points with no perceivable ness in the Normal mode and only slight rough edges in EconoFast. In the speed test for text, the 820 Cxi took 52 seconds per page in Normal mode. A full page color graphic was printed in 167.5 seconds.

In most of our test prints, the ink did not dry completely by the time the paper was ejected, leading to the possibility of smudging.

When compared with the other inkjets reviewed, the 820 Cxi gave the best quality outputs at above average speeds. Add to this a very reasonable list price and good economies in printing and you have the winner



The Toolbox helps in understand how the printer works and for troubleshooting

RATING: ■■■■■

PRODUCT:. HP DeskJet 820 Cxi

TYPE: 600 dpi color inkjet printer

SUMMARY: This elegant DeskJet gives quality text and graphics prints. Good pricing, above average speeds and reasonable pricing makes it the winner.

SPEED: Text: 52.04 seconds/page; Color Graphics: 167.5 seconds/page

PRICE: Rs 26,000

RQS #E0647

di Xerox JP 450

An average inkjet with poor graphics quality

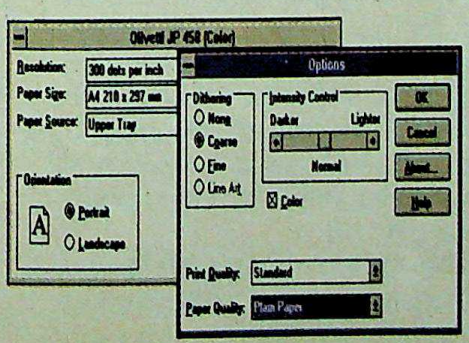
his color inkjet from Olivetti is sold by Modi Xerox and ships with two cartridges—monochrome and color, but you can install only one e. There is a lever which has to be ally flipped when changing from nochrome to color or vice-versa.

talling the printer was very easy, did not give any output initially and to run the print-head cleaning e to get it going.

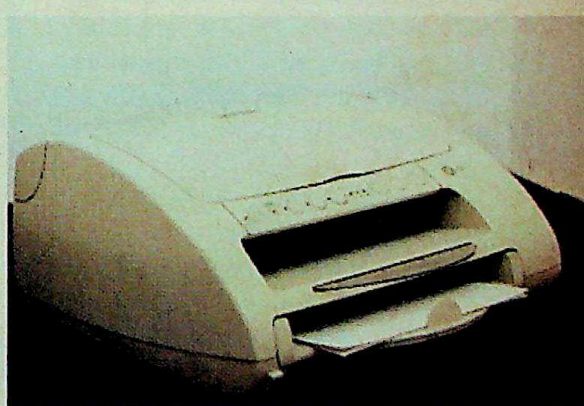
e JP 450 has an elaborate front- with seven keys and eight LEDs. n make out the functions of most witches, but for some we had to go to the manuals.

optional accessories include a sprockets for continuous stationery—not very common in inkjets. We couldn't test this out since the review model didn't have one.

Our tests revealed that the graphics and color quality of the printer left a lot to be desired. While printing graphics, the ink took time to dry and the output had considerable banding. In color mixing and reproduction the JP 450 is far behind the competition. Text printing is comparatively better.



The JP-450 comes with a no frills printer driver



RATING: ■■□□□

PPRODUCT: Modi Xerox JP 450

TYPE: 300 dpi Color inkjet printer

SUMMARY: This low-resolution color inkjet printer gives poor graphics quality and is more suited for text printing.

SPEED: Text: 45.1 seconds/page; Color Graphics: 277 seconds/page

PRICE: Rs 22,000

RQS # EO648

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Wipro GW IJC-80, IJ-40

Ultra-compact notebook inkjets, with support for multiple media

IJC-80 and IJ-40 are the tiniest models in the GeniusWriter series. Manufactured by Canon, the printers are being marketed in India by Wipro Peripherals under an OEM agreement. With a height of 2.2 inches and weighing just 1.4 kilograms, these sleek black units are ideal companions for laptops. A portable kit comprising a battery pack and attachment case costs Rs 7,900 while the NiMH battery pack alone costs Rs 4,900.

The cartons lead you to believe that the IJ's are 720 dpi printers, but both have a maximum resolution of 360x360 dpi only. Wipro is marketing GeniusWriters as India's first multimedia inkjets. We have not reviewed the multimedia capabilities in this shootout.

Setup involves plugging the ink tanks into the print head, attaching the printer cable and copying the driver software (separate ones for Windows and DOS) to your system.

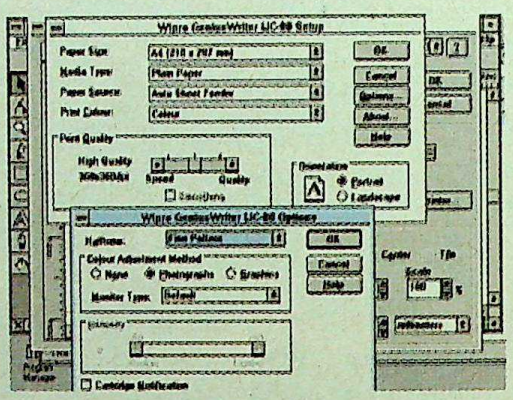
The small flip-top front cover reduces exposure to dust. Despite an array of front panel controls, the printer face doesn't seem crowded and it saves you from having to decipher blink patterns as in other inkjets.

The IJs can print under three modes—BJ and LQ for DOS users, and Canon Extended for Windows. Under the BJ and LQ modes, you have access to 20 functions (including automatic emulation switching and low-ink alert) that are controlled from the menu button on the panel. With the Canon Extended setting, only the instant off feature is available.

The manuals rate the black cartridge at 170 pages (at 5% coverage—equivalent to 40 lines of text in 10 point, Times New Roman, no bolds and 32 characters per line). So go in for cleaning only if you have to. You can toggle the cleaning time between 30 seconds and a minute.

IJC-80 is a color printer with a single cradle for the cartridge unit comprising the print head and ink tank. The black cartridge is a standard one with a print head. The color cartridge is different—it has a small black ink tank in addition to CMY, for true black in your color prints.

Overall, the IJC-80 gave faster output compared to the IJ-40. For our text file under the HQ (360 dpi) mode the IJC-80 took 27.79 seconds per page while the IJ-40 took 53.42 seconds. On a page of text with graphics, the IJC-80 clocked 27.49 seconds while the IJ-40 took 47.1 seconds.



The IJC-80'c Cartridge Notification option warns use the wrong cartridge while printing

The printers weren't too good with line art. Curves were incomplete with blanks in several places and thin lines suffered from the same problem. The full page black and white graphics test had very prominent banding even in the High Quality 360 dpi mode. A full-page color graphic took two minutes and 18.58 seconds on the IJC-80. Color prints were faded and dull even in the Best mode.

The IJC-80 topped our speed tests scoring 3.24, while the IJ-40 was towards the lower end of the table. In quality, the IJ-40 was at the bottom of the list, scoring only 0.34, while the IJC-80 managed 1.19.

To sum up, these printers are ideal for laptop users—sleek and small. The IJC-80 is a better bet, but you'll need to watch out for the operating costs.

RATING:

PRODUCT: Wipro GeniusWriter IJC-80

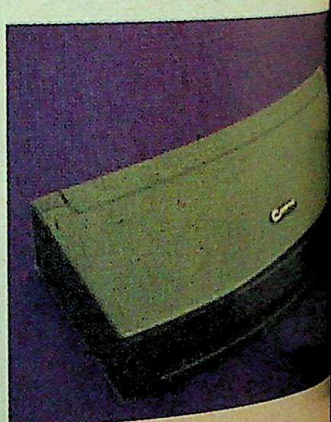
TYPE: 360 dpi Portable color inkjet printer

SUMMARY: A light-weight 360 dpi color [illegible] tiny black and CMY cartridges. Excellent prints. Three year warranty and a year's offer.

SPEED: Text: 27.79 seconds/page; Color [illegible] 138.58 seconds/page

PRICE: Rs 24,900

RQS# E0646



RATING:

PRODUCT: Wipro GeniusWriter IJ-40

TYPE: 360 dpi Monochrome inkjet printer

SUMMARY: Ultra-portable 360 dpi monochrome. Slower than IJC-80. Excellent manual.

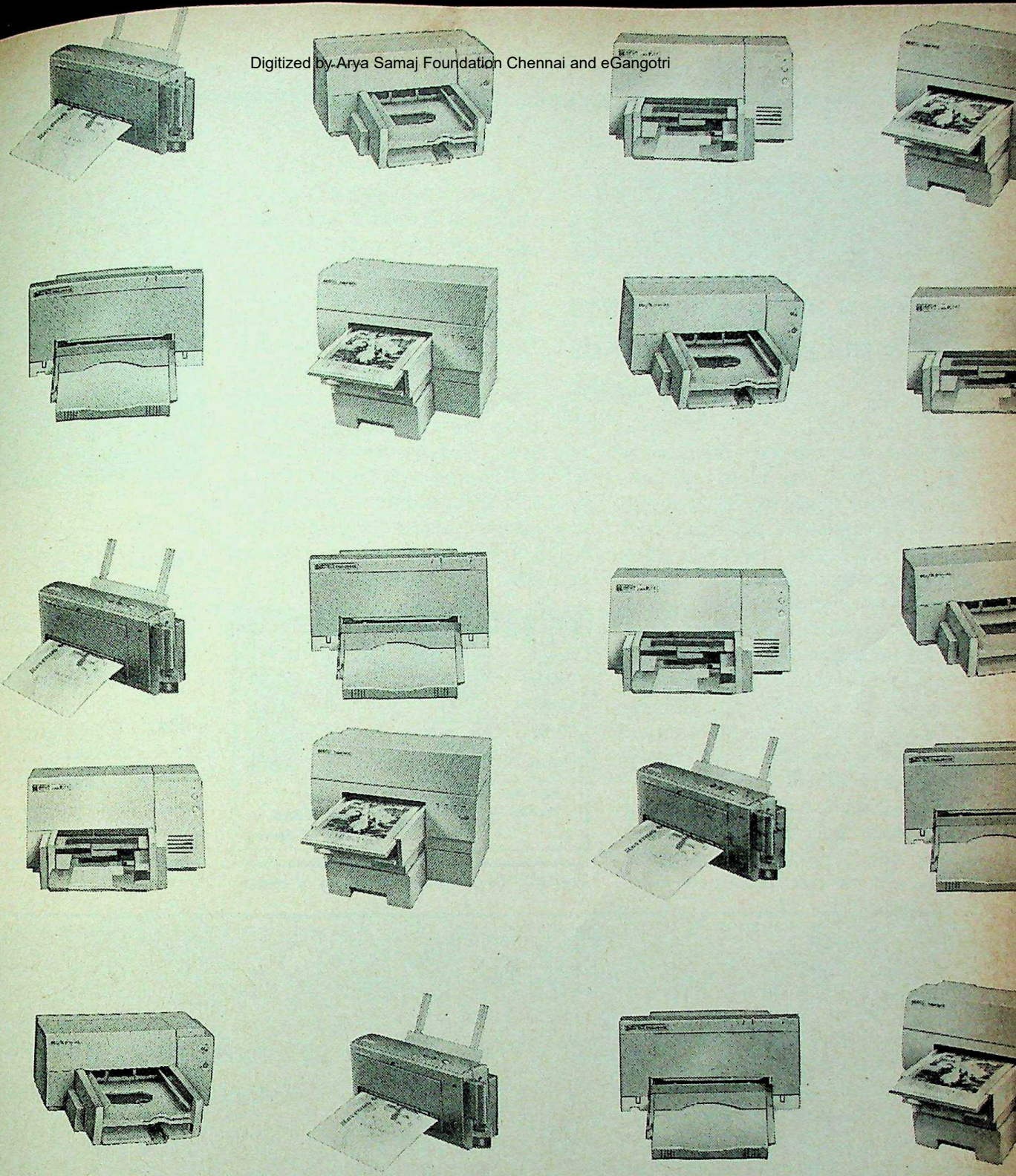
SPEED: Text: 53.42 seconds/page; graphics: 61 seconds/page

PRICE: Rs 15,900

RQS# E0646

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



HP PRINTERS. OVER 20 MILLION USERS.

Here's a printer connection, there's a Hewlett Packard printer. As over 20 million users of Hewlett-Packard printers stand out. Be it for PC or Mac. Small, large, medium office, or home. Heavy duty or general use. Quality business correspondence or presentation colour charts. HP is the de facto standard in non-impact printing technology. And these Inkjet printers are available off-the-shelf and at your doorstep from Godrej's countrywide dealer network. So, for a printer that really suits your needs, give Godrej a call. It's all the choosing you need to do.

HEWLETT PACKARD

Featured in the first row above, are the HP DeskJet 340, 200, 600, 660C, 850 C and 1600C, in that order.

Godrej Pacific

Fire-power for winners.

Godrej Technology Ltd., Plant 19 A, 2nd floor, Pirojshanagar, Vikhroli, Mumbai-400 079. Fax: 5170415. **BRANCHES: Mumbai:** Tel: 2048371/2049663. Fax: 2852079. **Maharashtra** Tel: 571718/0289. Fax: 5172247. **Pune:** Tel: 624588/628971. Fax; 628969. **Ahmedabad:** Tel: 5831545-9. Fax:5830336. **Indore:** Tel: 539075. Fax:533735. **Bhopal:** Tel:551863. **Jaipur:** Tel: 316092. Fax: 311776. **Madras:** Tel: 6257331/655666. Fax: 6257155. **Bangalore:** Tel: 2276487/382/465/538/297. Fax: 2219312. **Hyderabad:** Tel: 204495/201876/ 206978. **Thiruvanathapuram:** Tel: 460542/78104. Fax: 75935. **Kochi:** Tel: 315680/314815. Fax:371838. **Calcutta:**Tel: 370895-99/3596111/06. Fax: 3378271. **Bhubaneshwar:** 406269. Fax: 404222. **Guwahati:** Tel: 540787/542851. Fax: 543466. **New Delhi:** Tel: 6845002/7, 6830690. Fax: 6841482. **Lucknow:** Tel: 226645/228963/221671. Fax: 222061. Tel: 73238/705945. Fax: 703047. **Jalpur:** Tel:515182/5148650. Fax: 515496.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Mudra:GPS:4560

Digitized by Arya Samaj Foundation Chennai and eGangotri

WIPRO IJC-5100

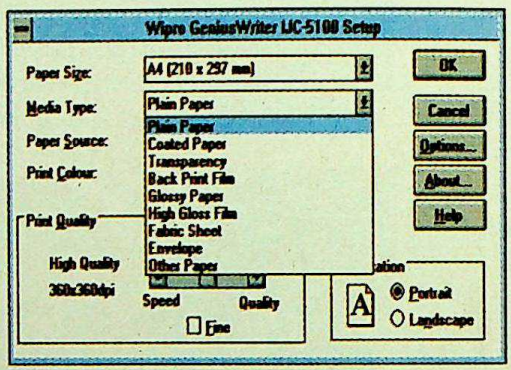
A color inkjet with average quality, but support for a wide range of media

The IJ range is being promoted as "multimedia printers" that can print on media like fabric sheets, T-Shirt transfer paper and back print film. We haven't tested out these "multimedia capabilities", but watch out for a separate review later.

The IJC-5100 is a small printer weighing a little over three kilos. Installation is simple, and the driver has options like ink-head cleaning, nozzle test and changing the cartridge. You can also program the Automatic Power Off. The 5100 does not support Plug'n Play.

IJC-5100 has a single cradle for plugging in both the color and black cartridges. Like the other Geniuswriters, this one also has three print modes—BJ, LQ and Canon Extended.

In our tests, the text quality was pretty good and it took 24.68 seconds per page. A full page color graphic took a whopping 223.9 seconds! But overall, the 5100 with 3.08 points came second in our speed tests just behind IJC-80, also from Wipro. In our quality tests, the 5100 performed poorly, scoring only 0.91, the lowest barring the IJC-80. This is not a printer for the mass market or general-purpose use. And its multimedia capabilities come at a price - a pack of 10 T-shirt transfer sheets costs Rs 1,700.



The IJC-5100 can print on a variety of media

RATING:

PRODUCT: Wipro IJC-5100

TYPE: 720x360 dpi Color inkjet printer

SUMMARY: Color inkjet printer with good... and speed, but poor color mixing on ... per.

SPEED: Text: 28 seconds/page; Color G... seconds/page

PRICE: Rs 23,900

RQS #E0649

The High-End Inkjets

This category saw close competition between Epson Stylus Pro and HP 820

We divided inkjet printers into two sections, the high-end models and the mid-level ones on the basis of their list price. Printers priced Rs 22,000 and above were classified as high-end, while those below Rs 22,000 came under the mid-level category.

The Heavy-Weights

In the high-end category, the competition was stiff. Four of the six contestants scored within a narrow range of 5.17 and 6.32—a gap of only 1.15 points. This is an indicator of the close competition between various brands in the Indian printer market.

On consolidation of scores, we had two contestants for the top spot—the Epson Stylus Pro and the HP 820 Cxi. The 820 Cxi managed to pip the Stylus Pro for the top spot by a narrow margin of 0.13 points.

Final Scores

Model	Speed	Quality	Features	Total
Epson Stylus Pro	2.77	2.72	0.96	6.45
HP DJ 850 C	2.25	2.97	0.97	6.19
HP DJ 820 Cxi	1.98	3.37	1.23	6.58
Modi Xerox JP 450	2.22	1.12	1.01	4.35
Wipro IJC-5100	3.08	0.91	0.56	4.55
Wipro IJC-80	3.24	1.19	0.74	5.17

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Some like them quiet and SLEEK.

Some want it **RUGGED** and *EFFICIENT.*

Sometimes for professional reasons.

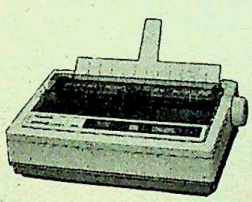
Sometimes *Personal* ones.

LIGHTWEIGHT preferred.

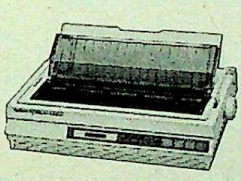
HEAVYDUTY needed.

No problem.

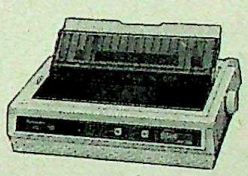
KXP 1150: Compact front office printer



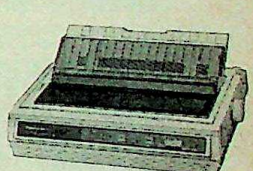
KXP 1121: High print quality correspondence printer



KXP 2624: Super-quiet corporate printer with LCD panel



KXP 3626: Super-quiet corporate printer



KXP 3696: High-speed heavy-duty EDP printer

Whatever your preference, we at Godrej Pacific have the answer. Take your pick from the KXP 3696: a 9-pin, 132 col., high-speed, high volume EDP printer. Or the KXP 1150: a 9-pin, 80 col., moderate speed printer with a set-up disc option. Or the KXP 3626 or the KXP 2624: both 24-pin, 132 col. printers. Or the KXP 1121: a 24-pin, 80 col. printer with high print quality. Low-end to high-end. Making up the entire range. All you have to do is make up your mind.

Panasonic
matrix printers

Godrej Pacific
Fire-power for winners.

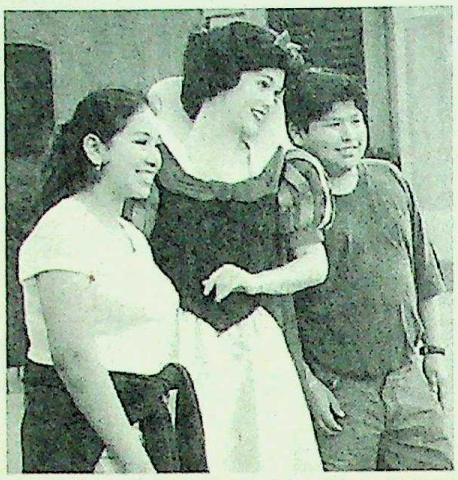
Godrej Pacific Technologies Ltd.:Plant 19A, 2nd floor, Pirojshanagar, Vikhroli (W), Mumbai 400 079. Fax: 5170415. **BRANCHES: Mumbai.** Tel: 2075162/65. Fax: 2072079 • **Pune.** Tel: 628969 • **Ahmedabad.** Tel: 5831545-9. Fax: 5830336 • **Indore.** Tel: 539075. Fax: 533735 • **Jabalpur.** Tel: 316092. Fax: 311776 • **Surat.** Tel: 870125 • **Baroda.** Tel: 451066 • **New Delhi.** 6845002/7, 6830690. Fax: 6841482 • **Lucknow.** Tel:226645/228963/221671. Fax: 222061 • **Chandigarh.** Tel: 773238/705945. Fax: 703047 • **Jaipur.** Tel: 515496 • **Madras.** Tel: 655666/6257331. Fax: 6257155 • **Bangalore.** Tel: 2276487/382/465/538/297. Fax: 2219312 • **Hyderabad.** Tel: 204495/201876/027. Fax: Tel: 545200. Fax: 545878 • **Thiruvanthapuram.** Tel: 460542/78104. Fax: 75935 • **Kochi.** Tel: 315680/314815. Fax: 371838 • **Calcutta.** Tel: 370895-99/3596111/ Tel: 405082/404289. Fax: 404222 • **Guwahati.** Tel: 540787/542851. Fax: 543466.

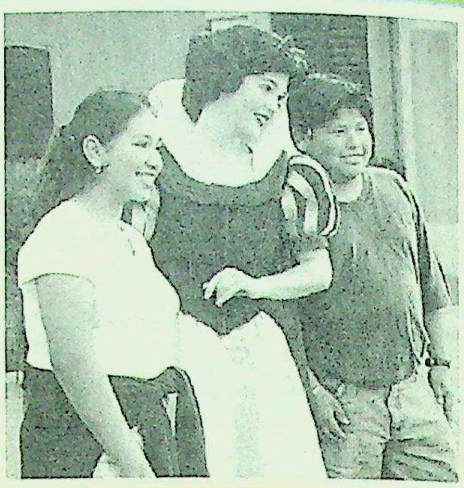
Mudra:GP:4584

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SAMPLE PRINTOUTS FROM THE REVIEW MODELS





The original monochrome image printed on an image setter and the original color images printed on an image setter

Original Image

The Epson Stylus Pro produced excellent graphics, and lost out to the HP DJ 820 Cxi by a narrow margin

Epson Stylus Pro

HP's DJ 850C gave the leaders a run for their money with its print quality

HP DJ 850C

The HP 820 Cxi won the Editor's Choice award with outstanding color and monochrome prints

HP 820 Cxi

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

With HP PCL 6, nothing speeds through today's business documents like my new HP LaserJet 5.

HEWLETT® PACKARD

And best of all it's an HP.

How fast can you print out business documents full of graphics, scanned images or Internet files?

With the HP LaserJet 5 printer, you can zip through them all, thanks to HP PCL6, the new standard in printer language developed by HP.

HP PCL6 is able to read even the most complicated documents in a flash, making it the perfect printer for small workgroups. It also lets you get back to your application faster, so you're free to move on to the next job without waiting.

HP PCL6 guarantees superior print quality for graphics and scanned images. And it offers much better what-you-see-is-what-you-get (WYSIWYG) printing than ever before.

Of course, with all HP LaserJets, you get the reliability and quality you've come to expect from the world's best selling laser printer. For further information, please contact any of our dealers. Or, to receive product data sheets, please call **HP First Fax Service on (011) 6226420** from your fax machine or touch-tone telephone and request document ID number 90340.

HP printers. The way the world prints.

HP LaserJet 5 printer

Hewlett-Packard India Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472351, 6472328-30.
Authorised Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Mumbai : 4227492. Calcutta : Tel : 2991145. Hyderabad : Tel : 620505. Madras : Tel : 4349620. Tel : 606225. • **Godrej Pacific Technology Ltd.,** Bangalore : Tel : 2216487. Mumbai : Tel : 2075165. Calcutta : Tel : 3596111. Hyderabad : Tel : 201876. Madras : Tel : 8276242. New Delhi : Tel : 6830690. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Mumbai : Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734. Tel : 6522141. New Delhi : Tel : 6444293. • **Larsen & Toubro Ltd.,** Bangalore : Tel : 5511808. Mumbai : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400. Mumbai : Tel : 4224143. Calcutta : Tel : 749754. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 3342081. New Delhi : Tel : 6940218. • **Pertech Computers Ltd.,** Bangalore : Tel : 2632478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2353313. New Delhi : Tel : 6923224. • **Redington (India) Pvt. Ltd.,** Bangalore : Tel : 5538032.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Modi Xerox JP 450 produced very poor graphics quality, particularly when in color

Modi Xerox JP 450

The Wipro IJC-5100, advertised as a multimedia printer, supports different media. However it's performance on standard A4 paper was not up to the mark

Wipro IJC-5100

Wipro's IJC-80 gave better quality outputs and speeds than the IJC-5100

Wipro IJC-80

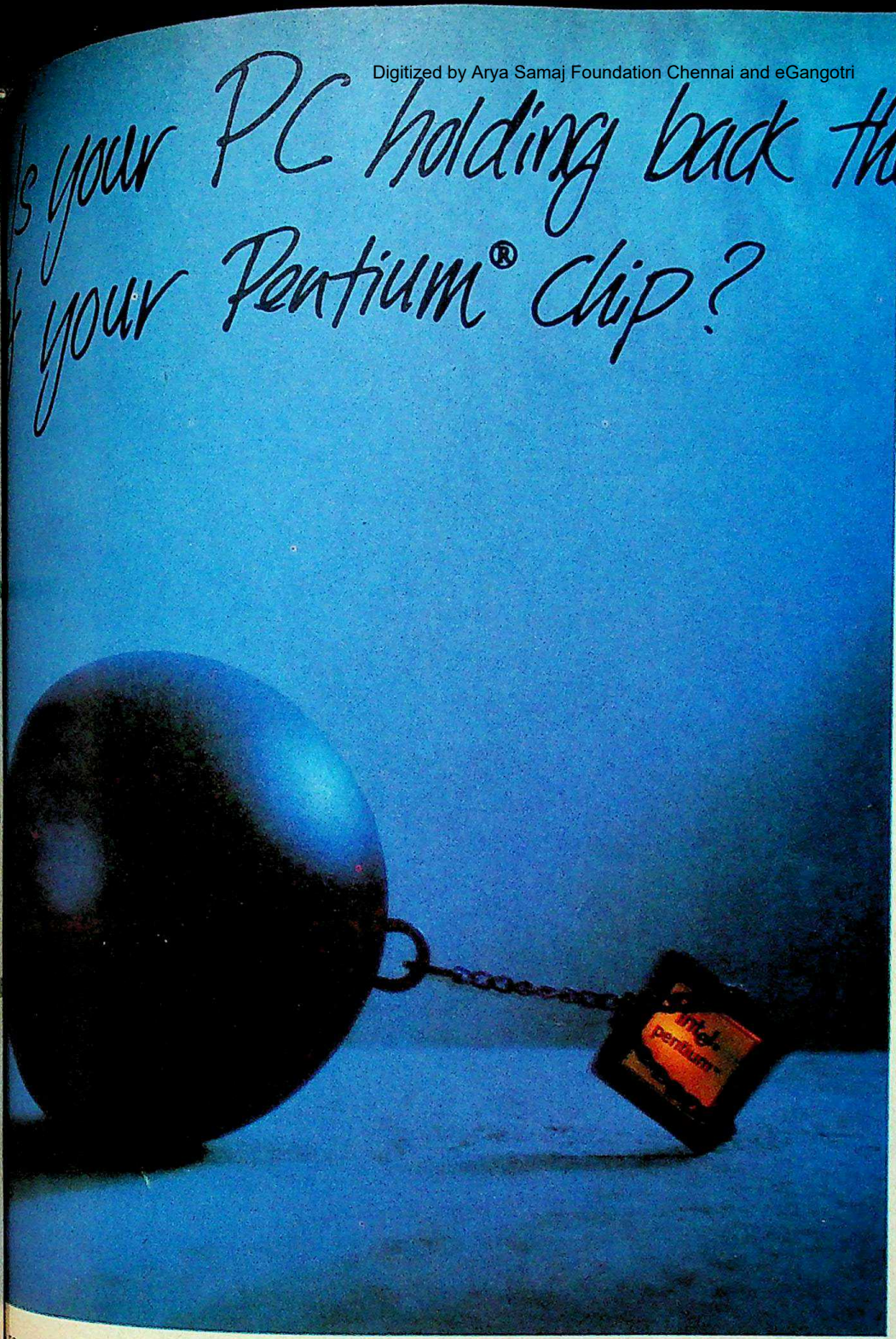
Printer manufacturers strongly recommend that you use their paper to get the best output. Given are samples from the Epson Stylus Pro and DJ850C on special paper

Special Paper

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Is your PC holding back the Power of your Pentium® chip?



*HP Vectra VE-2 5/75 Intel Pentium® Processor 75-Mhz, 8MB EDO RAM/640MB, HP SVGA color monitor, Dashboard 2.2, DMI ready, keyboard power-on capability, 4x4 upgradable system design, 3 year comprehensive warranty (1 year on-site). Rs. 98,900. **

PC companies still haven't got around to ing the design of their PCs with the power of the Pentium® processor. HP is ception.

ew HP Vectra PCs are designed Pentium® processor to run at potential. So they come with est Triton chipset and fastest RAM in the market. With an of Synchronous Pipeline Cache erforms the competition. The faster, so is the RAM and, to top it all, these new PCs are even fitted with hard drives so fast that they're unmatched anywhere. The end result is the speed that's so essential for 32-bit performance and graphics.

So don't be held back. Unleash the full power of the Pentium® processor. Talk to your HPI dealer today. Or call **HP FIRST at (011) 6226420** from your fax machine or touch-tone telephone, and request document ID number 6352. Or come and visit Hewlett-Packard on the Web at http://www.hp.com:80/gpcd/index.html.

intel inside
pentium
PROCESSOR

HEWLETT® PACKARD

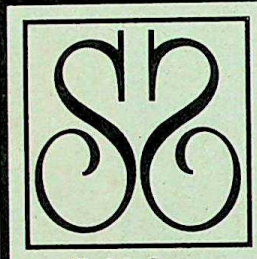
ett-Packard India Ltd., Paharpur Business Centre, 21 Nehru Place, New Delhi-110 019. Tel : 6472311, 6472328-30.
ed Dealers : • CMS Computers Ltd., Bangalore : Tel : 5586790. Calcutta : Tel : 2408949. Delhi : Tel : 6912036. Hyderabad : Tel : 848336. Madras : Tel : 4990829.
Tel : 2851580. • **Electronics Corporation of India Ltd., Computer Group,** Bangalore : Tel : 2267082. Calcutta : Tel : 22429181 Delhi : Tel : 608225. Hyderabad : Tel : 620483.
Tel : 4496920. Mumbai : Tel : 4229074. • **Godrej Pacific Technology Ltd.,** Bangalore : Tel : 2216487. Calcutta : Tel : 3596111. Delhi : Tel : 6830690. Hyderabad : Tel : 201876.
Tel : 6257331. Mumbai : Tel : 2049663. • **HCL Hewlett - Packard Ltd.,** Bangalore : Tel : 5584091. Calcutta : Tel : 2476120. Delhi : Tel : 6444293. Hyderabad : Tel : 814525.
Tel : 8276242. Mumbai : Tel : 2626984. • **Zenith Computers Ltd.,** Bangalore : Tel : 2264999. Calcutta : Tel : 4753872. Delhi : Tel : 6841147. Madras : Tel : 4349661.
Tel : 6577300.Secunderabad : Tel : 812494.

ands, Pentium processor logos and Pentium are registered trademarks of Intel Corporation. ** Estimated street price. Local taxes and levies extra.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

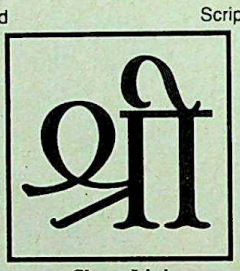
Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PIONEER UNVEILS INNOVATIVE MULTILINGUAL SOLUTIONS



Shabda Sagar
Multilingual Word Processor

Shree Lekha
Script Processor & Fonts for Multimedia



Shree Lipi
Script Processor & Fonts for MS Windows & Macintosh

Multikeys
Keyboard Handler for Gist Card

Prateek Pro
General Purpose ID card making software

Presenting the finest range of multilingual solutions **Shree Lipi, Shabda Sagar, Shree Lekha, Prateek Pro** and **Multikeys**.

Brought to you by **Modular**, each product is a result of painstaking research and years of experience. The ultimate range in multilingual solutions is available in over **80 cities** and has an installed base of over **10,000 users**.

Shree Lipi : Shree Lipi is an Indian Language script processor under MS Windows, with a collection of fonts and utilities compatible with both **IBM PC and Macintosh**. The ultimate in desktop publishing, it supports the largest collection of Indian typefaces in all Indian scripts and has a variety of keyboard layouts.

Shabda Sagar : Shabda Sagar is a DOS based **multilingual word processor** with commands that are similar to Word Star. User friendly at the core, it supports a majority of printers in use. Another attractive option is the availability of a variety of keyboard layouts.

Shree Lekha : Shree Lekha is a DOS based Indian language script processor available with **fonts for multimedia** video graphics. Its diverse features support various applications including Autodesk Animator & 3D Studio.

Prateek Pro : A software package for preparing General Purpose Identity cards in Indian Languages, its applications can include Labels, Tags etc also. The package includes a simple data base editor, along with an image grabbing module, flexible layout designing and printing module for use in both B/W & colour photographs as well as text.

Multikeys : Multikeys is a DOS based keyboard layout handler for Indian Languages to be used with GIST cards. It allows the use of popular keyboard layouts like Modular, Godrej, Ramington etc. Also available is a program for generating user defined layouts.

For more details contact :

Modular Systems

26, Electronic Co-op. Estate, Pune Satara Road, Pune - 411 009.
Tel. : 0212-437994/423510. Fax : 0212-425896/452323.
E-MAIL : MODULAR.PUNE@SM08.SPRINTRPG.SPRINT.COM

National Distributors :

Cirrus Electronic Systems Ltd.
H.O.: Kamla Heights, Cirrus Chambers, 433/D, Somwar Peth, Pune-411 001 Tel.: 633226/632236/630237. Fax: 0212-631132.
Branches : ● Ahmedabad ● Bangalore ● Bombay ● Cochin ● Delhi ● Hyderabad ● Madras ● Nagpur ● Vizag

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

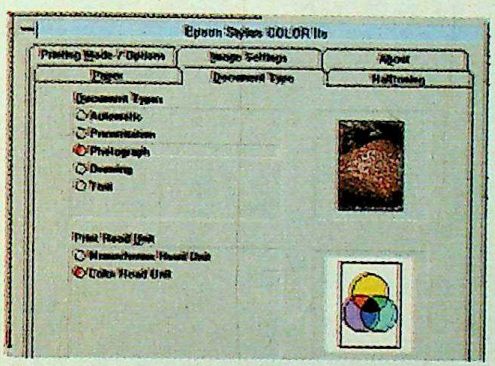
son Stylus Color IIs

A small-footprint inkjet with very good color output

this section, the Stylus Color IIs mes in second. This light-weight it has a narrow footprint, thanks gely to its folding output tray and L-shaped paper path. The input tray achable and you have to manually a lever according to the paper ness. The lever in our test unit was ly loose, and the printer often picked ultiple sheets.

like the spartan front panel of HP's lets, the Stylus IIs has three but- and four LEDs in addition to a r on/off switch. Besides power and indicators, there are two other for condensed and economy modes. the speed tests, the Stylus IIs rmed rather poorly, coming in d last with 1.28 points. It took 84.82 seconds per page of text and 292.73 seconds for a page of color graphics.

However, the quality of graphics under 360 dpi was excellent with no banding at all. In our color graphics test, except for synthesized black, the other colors were rich and the mixing was good. It fared well in the quality tests, except for text jaggedness. Curves and lines were remarkably smooth.



The Epson IIs printer driver offers a wide variety of options for customizing your output

RATING:

PRODUCT: Epson Stylus Color IIs

TYPE: Color Inkjet printer

PRICE: Rs 15,900

SUMMARY: Color inkjet printer that prints 360 dpi raster on a 720x720 dpi matrix. Has two separate print head units and cartridges. Presence of a single cartridge cradle leads to composite blacks in color graphics. Good for graphics work rather than for text.

SPEED: Text: 84.82 seconds/page; Color Graphics (Color): 292.73 seconds/page

RQS #E0652

HP DeskJet 200

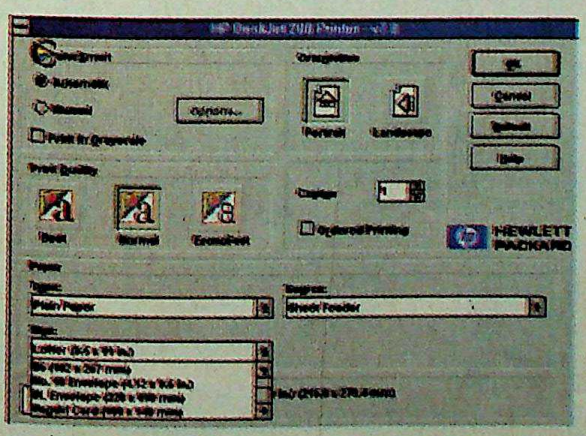
The cheapest "color-ready" inkjet around, for home and SOHO users

The DJ 200 (*see page 115 PCQ May, 1996*) is a replacement to the DJ 400, The printer software includes a *Status Monitor* with a cute little animated icon box which gives the print status. The *Spooler* takes over from the Windows Print Manager. The drawback is that you cannot pause a print.

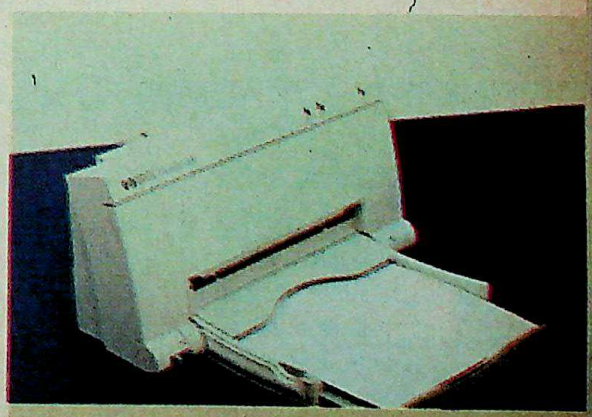
In the review tests, the DJ 200's speed was around 100.61 seconds per page and in graphics it was around 161.84 per page. We found a lot of variation in the graphics tests, but in general, the quality was very good. As for text printing, the DJ200 came last in its category.

However, it must be noted that the DJ200 like the Wipro IJ-40 is not in the heavy-duty segment. They are targeted specifically at low-end usage. The results of our tests for these printers should therefore be interpreted in this context.

All said and done a very good printer for text printing, be it at home or at office.



The DJ 200 printer driver has all the standard options including the ability to print on a wide variety of media



RATING:

PRODUCT: HP DeskJet 200

TYPE: Monochrome inkjet

SUMMARY: A printer catering to the SOHO section, priced low and compact in design. Optional color kit. Compatible with Win 95.

SPEED: Text: 100.61 seconds/page; Monochrome Graphics: 161.84 seconds/page

PRICE: Rs 8,995

RQS #E0653

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HP DeskJet 600

A low-cost inkjet that's good for text and light graphics

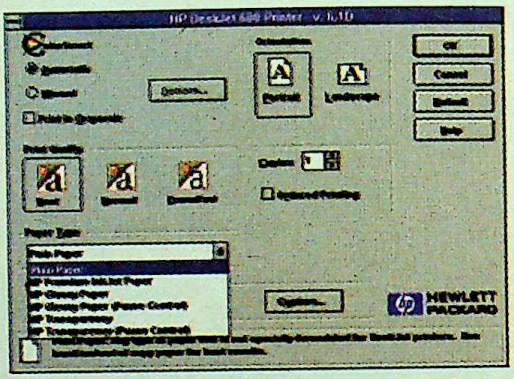
This is a monochrome printer, and an optional add-on kit makes it color capable. The review model shipped as monochrome. The printer plugs into the mains through an HP-supplied power module. It had drivers only for Windows 3.1.

The printer comes with driver, status monitor, installable fonts and Dr DeskJet. At the end of the installation, a guided tour takes the user through the intricacies of the printer.

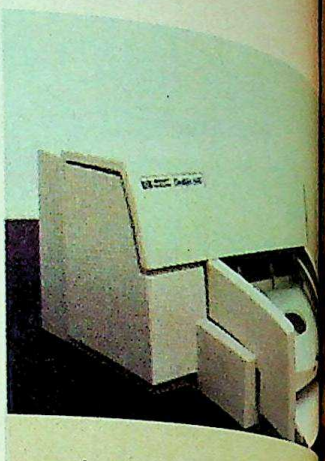
During our tests we found that print quality was quite good and there was only negligible banding in graphics printing. However, the printer was not very fast. It also had a penchant for occasionally picking up more than one sheet at a time. But, such incidents were not very frequent.

During tests, the 600 gave text speeds of 65.14 seconds per page and graphics speeds of 145.15 seconds per page (monochrome). In quality, the 600 gave excellent monochrome graphics output, but failed to put up the same level of performance in other quality tests.

At this price the DJ600 seems a good buy for text, and for occasional monochrome graphics.



The DJ 600 driver packs a lot of options in a very simple interface



RATING:

PRODUCT: HP DeskJet 600

TYPE: 600x600 dpi monochrome inkjet

SUMMARY: An easy-to-use printer that good prints at slightly less-than-fast supports Windows 95 plug-n-play.

SPEED: Text: 65.14 seconds/page, Graphics 145.15 seconds/page

PRICE: Rs 14,500

RQS #E0654

HP DJ660C

Quality graphics and speed add up to very good value at this price

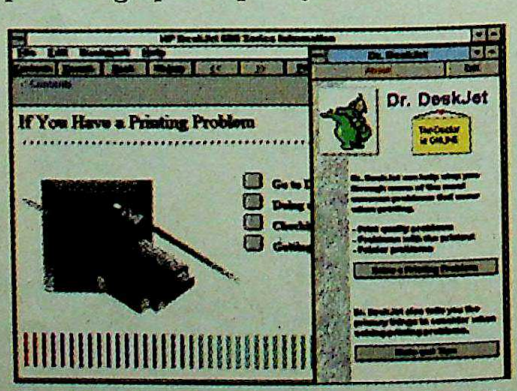
The DJ 660C is the clear winner in this section of mid-level inkjet printers. Except for the color capability, the DJ 660C is identical to its monochrome counterpart, the DJ 660. Though the front panel of the printer is sparse with just two buttons, it has elaborate paper handling features.

The driver offers three modes—Best, Normal and EconoFast. The EconoFast mode is quick and uses less ink—ideal for draft printouts. HP's ColorSmart printer driver has an automatic color printing mode that scans your graphic and applies appropriate color settings. As the color and black cartridges are loaded simultaneously, the printer can print true blacks in a color printout.

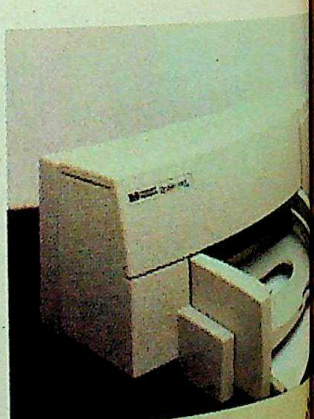
Text output was smooth with excellent readability at small point sizes. Graphic quality was quite satisfactory with very little banding. Prints under Normal mode showed a slight amount of banding.

The DJ 660C's line art and curves were also very good, with little distortion. In our full page monochrome graphics test, the printer output smooth blacks and grays.

On the whole, an impressive printer that is fast with text, and provides impressive graphics quality.



The DJ 660 C comes with extensive on-line help



RATING:

PRODUCT: HP DJ660C

TYPE: 600 dpi color inkjet

SUMMARY: Good print quality in text Three year warranty.

SPEED: Text: 72.74 seconds/page; 216.03 seconds/page

PRICE: Rs 21,500

RQS# E0655

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ORACLE®
Enabling the Information Age™

As a front-end development tool,
Oracle Power Objects
is simply the best !

"Says who?"

"Power Objects can be described as 'Visual Basic on database steroids'. It's an elegant tool that's easy to use.
- February, 1996, Lars Danielsson, PCWORLD

A combination of strong ease of use and high-performance connectivity should put Oracle Corp.'s new Power Objects in the company of the top desktop development tools.
- August 7, 1995, Ed Dowgiallo, INFOWORLD

Oracle Corp. has done an outstanding job of simplifying the development of general-purpose client/server applications with Power Objects 1.0, an easy-to-use, 16 bit programmable front-end tool the company released in late July.
- September 6, 1995, Bob Gallagher, PCWEEK"

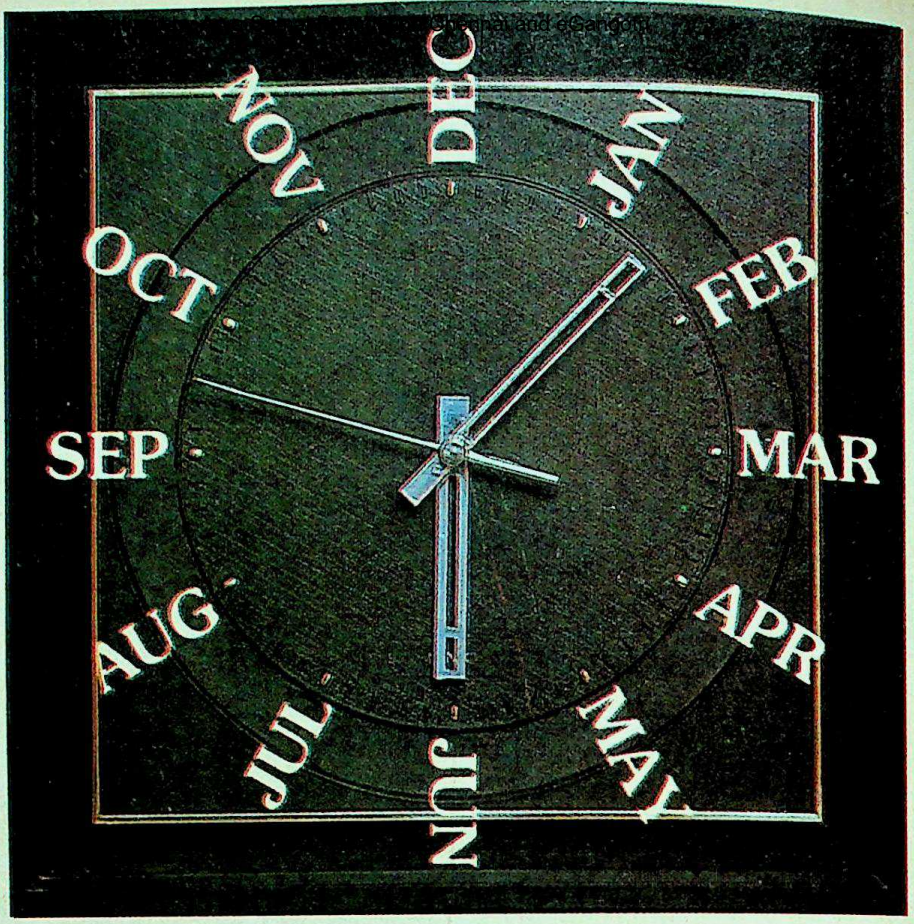
Within a few months of its release, Oracle Power Objects, the front-end visual programming tool for standalone and workgroup application development, has taken the entire IT industry by storm.
Packed with features like drag-and-drop, object-oriented programming and robust data handling capabilities, it enables developers to deliver powerful client / server applications easier, faster, and with less code than ever before.
It's no wonder that Oracle Power Objects is scoring so well in all international PC magazine reviews.
And if hearing is not believing, just mail / fax us the attached coupon.

Oracle Workgroup 2000™
Proof that you can.

Please send me a free copy of PCWorld's review of Oracle Power Objects. PQ
Name : .....
Address : .....Designation : ..... Organisation : .....
.....
Please send this coupon to : Rajeev Mittal, Oracle Software India Pvt. Ltd., Dr. Gopal Das Bhawan, 28 Barakhamba Road, New Delhi 110 001. Tel : ..... Fax : ..... E-mail : ..... Fax 3720572.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

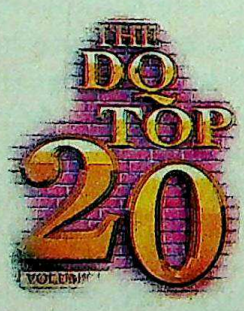
Digitized by eGangotri



If June is here, can July & August be far behind?

It's time you booked your own copies of

DATAQUEST TOP 20



DATAQUEST TOP 20
is in three volumes this year.

VOLUME 1 (July 1st issue): Lead Story, Industry Table, Top 20 Story, Top 20 Write-ups, Guest Columns, Regulars, Asian Top 20, MNC Report Card. **VOLUME 2** (July 2nd issue): The Next 30 Companies, The Next 50, 101-200, Segmentwise Analyses: Hardware, Software, Peripherals, Training, Maintenance, Networking, Other Services, Regulars. **VOLUME 3** (August 1st issue): Listing: 800 companies, User Analysis, Brand Analysis, Financial Analysis, Forecasts, Spotlight Segments: Workstations, End-user Training, New Business Opportunities, Regulars.

CONTACT YOUR NEAREST NEWSSTAND IF YOU ARE NOT A SUBSCRIBER.

ANDY DIRECTO

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Midrange Inkjets

A look at the scores and the sample outputs

this category, the results were slightly more spread apart an in the high-end section. Here also HP bags the Editor's oice with the DJ 660C, scoring 4.70 points. Epson was again ound with the Stylus Color IIs. Given below are the actual sults of the various tests we carried out. For convenience, the bles below list the results for both the low-end and the high- d models together.

Final Scores

Model	Speed	Quality	Features	Total
Epson Stylus II	1.28	1.76	0.53	3.57
HP DJ 200	0.90	1.64	0.78	3.31
HP DJ 600	1.05	1.72	0.71	3.48
HP DJ 660 C	1.30	2.89	0.51	4.70
Wipro IJ 40	1.81	0.34	0.42	2.57

Comparative Quality Of Printing

Model	Colour graphic	Monochrome Graphic	CMYK mix	Monochrome fountain	Text fill	Wedge Patch
Epson Stylus II	4	5	5	4	3	5
Epson stylus Pro5	8	8	11	2	4	
HP DJ 200	–	6	–	10	9	9
HP DJ 600	–	10	–	7	7	6
HP DJ 660 C	6	9	4	9	10	8
HP DJ 850 C	7	7	7	8	8	11
HP DJ 820 Cxi	8	11	6	6	11	10
Modi JP 450	1	4	3	2	4	7
Wipro IJ 40	1	3	1	2		
Wipro IJC 5100	3	2	1	1	6	1
Wipro IJC 80	2	3	2	5	5	3

Note: The higher the rank, the better the quality

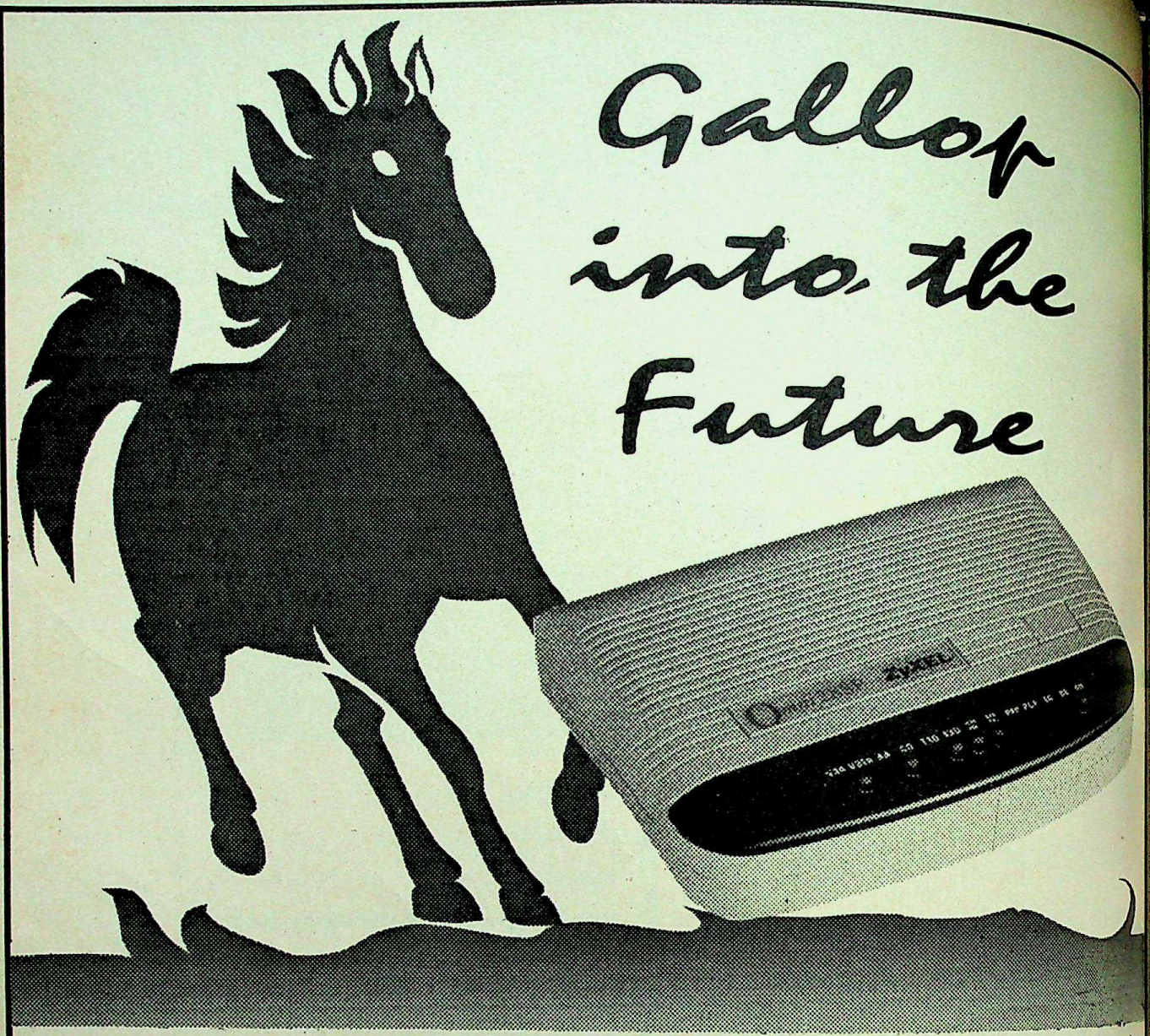
Speed Tests

Model	Multi page Text	Colour graphic	Monochrome graphic	Postscript Text	Text & Graphic	Multiple Copies
Epson Stylus II	84.82	292.73	105.72	68.33	79.33	76.28
Epson stylus Pro	37.09	131.38	43.51	33.66	61.64	32.11
HP DJ 200	100.61	–	161.84	91.54	61.17	52.99
HP DJ 600	65.14	–	145.15	97.51	64.80	60.76
HP DJ 660 C	72.74	216.03	107.02	104.56	125.88	66.10
HP DJ 850 C	40.12	152.36	74.05	46.12	60.66	26.85
HP DJ 820 Cxi	52.04	167.50	155.00	31.65	55.00	28.33
Modi JP 450	45.10	277.00	51.63	38.92	44.38	42.46
Wipro IJ 40	53.42		50.60	44.35	47.10	42.58
Wipro IJC 5100	24.68	223.90	59.84	25.18	32.77	25.86
Wipro IJC 80	27.79	138.58	56.71	25.56	27.49	24.65

Note: All figures in seconds/page

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

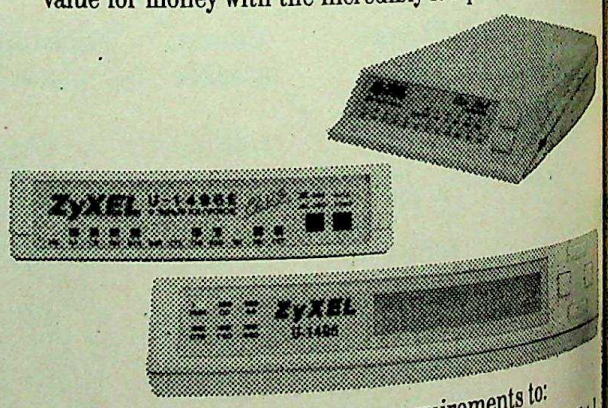
Digitized by Arya Samaj Foundation Chennai and eGangotri



Zyxel range of modems offer you an outstanding choice for your requirements. The extra functionality coupled with astounding speeds and foolproof reliability have made Zyxel modems a product of international repute (A number of BBS operators will vouch for and second our claims)

The latest addition to the Zyxel family, OMNI 288 V.34/Fax/Voice Modems - is a proof of commitment to customers needs with highly advanced technology, to suit Voice/Data/Fax requirements. By conforming to the latest protocol available and providing convenient voice/message inputs+outputs, the OMNI surpasses all competition. In addition to its TAPI support, the call back security and password protection features make the OMNI unique. Above all, the salient fax functions prove the far reaching capabilities of the OMNI. Omni is a proud new addition to the existing range of models consisting of *Elite 2864 V.34 / FAX / Voice / ISDN Upgradeable, U-496E Plus, Plus Enhanced U-1496.*

The entire plethora of Zyxel modems offer a tremendous value for money with the incredibly low prices.



Rush with your requirements to:

Xon Communications (India) Pvt. Ltd.
No. 19, Casa Major Road, Egmore, Madras - 600 008.
Ph.: 8258336 / 8260124. Fax : 6263184 / 8554930.

DEALERS : **Ahmedabad** : MICROWARE, Ph: 079-407772, **Bangalore** : Xon Communications (India) Pvt. Ltd., Ph: 080-5255358, OPTIONS, Ph: 080-5254204/5279141, **Bombay** : SIGMA CONTROLS, Ph: 8723706/8733623/8733682. **Coimbatore** : INFONET SERVICES, Ph: 0422-213319/21, **Guwahati** : UNIMATION INDIA, Ph: 0361-520889, **Gujarat** : Vallabh Vidya Nagar, MICRO MEDIA SYSTEMS, Ph: 02692-46531, **New Delhi** : EDP ADS PVT. LTD., Ph: 6833192/6846299/6846793. **Patna** : SILICON ORCHARD, Ph: 0612-224391, **Pune** : CTECH SERVICES, Ph: 0212-45... **Surat** : ADVANCED MICROTECH, Ph: 0261-427320.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Here are the sample printouts taken in the best mode that the printer offers:

The Stylus IIs' outputs are sharp and clear—the best among the mid-range inkjets.

Stylus IIS

Outputs from the IJ-40 are marred by very prominent horizontal banding.

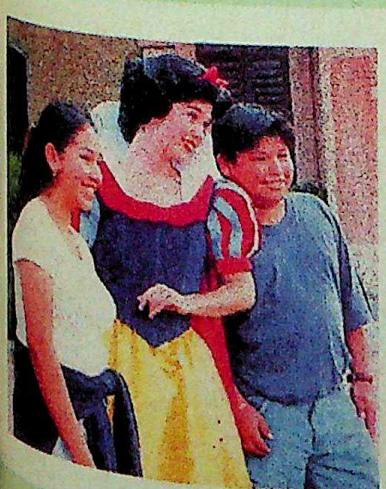
IJ-40

The DJ200 outputs are clear but very grainy.

DJ200

Though not as conspicuous as the DJ-200, even the DJ600's outputs are grainy.

DJ600



The DJ660C gave sharp, dear prints both color and monochrome

DJ660C

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Epson LQ1070+

Quality, speed and features combine well in this winner

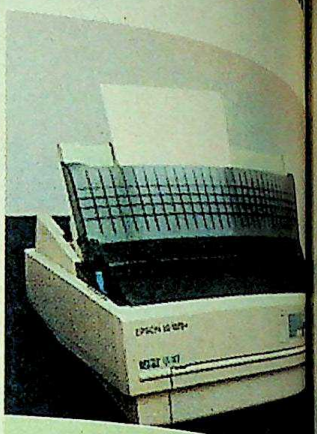
This wide-carriage, 24-pin printer from the pioneers in dot matrix printing wins the Editor's Choice in the DMP Section.

The LQ 1070+ has a unique design. The front panel has controls and LEDs that increase ease-of-use without crowding up. The DIP switches are lodged in a separate covered panel. The platen knob and tractor mechanism are smooth with a positive feel. Several paper handling controls like Load/Eject, Micro Feed (for advancing or reversing the paper by fractions), and Tear-off make paper handling very easy. The input buffer capacity can be set to a maximum of 8 kB from the DIP switches.

One problem observed with the LQ 1070+ is that the print head tends to heat up after about 30,000 characters. The printer slows down and at times even pauses printing to let the head cool down. This might be frustrating when printing huge documents like ledgers and statement of accounts.

Though a label on the front-panel boasts of its quiet operation, we weren't really impressed on that account. The 1070+ generated as much noise, if not more, than any other DMP reviewed. Surprisingly, the otherwise detailed manual didn't list the rated noise levels.

The 1070+ topped in both speed and quality tests. The print quality of the Word for Windows test file was outstanding and got a perfect ten. Speeds under Windows were also fast next only to the P8000. But the clincher was its speed when printing in NLQ. It took a mere 53.67 seconds to print our multi-column test file. With blazing speeds and excellent print quality, it's no surprise that the 1070+ secured the Editor's Choice for DMPs.



RATING:
PRODUCT: Epson LQ-1070+
TYPE: 24-pin, 132-column DMP
SUMMARY: This fast and sleek 132-col... tapped in both the speed and qu...
SPEED: 181.62 cps (draft 10 cpi), 67.93 ...
PRICE: Rs 11,500

RQS#E0655

Epson LX 1050+

An ageing but workhorse dot-matrix, with steady performance

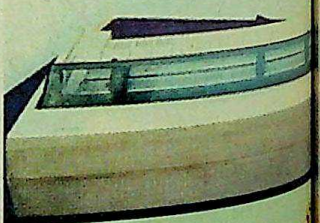
The 1050+ is a slim model with a narrow control panel that has the on-line switch and buttons for NLQ, Draft and Condensed printing. The Draft and NLQ buttons double for Line Feed and Form Feed, while the Condensed button does the same for Load/Eject.

The review machine and ribbon looked used which is probably why the printouts were faint. The carbon copies, however, were much sharper, so this should normally give satisfactory quality output. It offers two built in NLQ fonts — Roman and Sans Serif. At Rs 16,900, the printer is priced a bit high for a 9-pin printer.

The 1050+ gave average speeds in our tests. Rated at 200 cps in 10 cpi draft mode, we got an average speed of 150 cps. In NLQ mode it gave 33 cps as against the rated 40 cps. This printer took 3.75 minutes -- the longest to print our Word for Windows test file, and the prints were a disappointment. The text was severely jagged and faint.

But for the Windows test, the printer put up a creditable performance in the quality tests. In the speed tests, the LQ 1050+ scored 1.17 points, which put it in the lower half of the group. It scored particularly low in multicolumn and windows printing. If we were to look at this printer only, and not compare it with the others, the LQ 1050 + is good, but in comparison, the others, six of them were better, particularly in speed.

Overall, the printer's performance was average both in terms of speed and output quality.



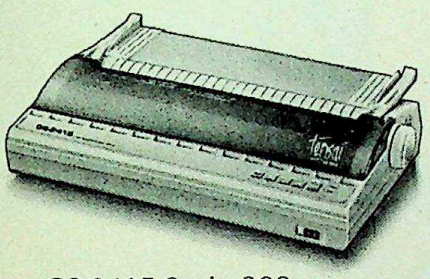
RATING:
PRODUCT: Epson LX-1050+
TYPE: 9-pin, 132-column DMP
SUMMARY: An average printer with a ... of fonts
SPEED: Text: 150 cps (Draft mode), 33 ...
PRICE: Rs 16,900

RQS#E0656

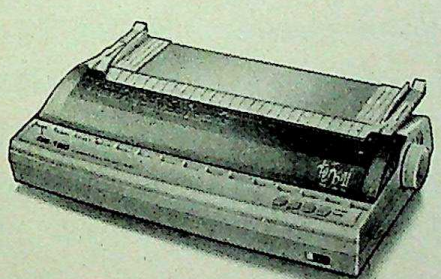
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Introducing Tensai. The new 132 col. dot-matrix printers with Japanese technology.



GS-2415 9-pin 300 cps
serial parallel printer



GS-150 24-pin 300 cps
the most affordable office printer

And 8 solid reasons to buy them.

	Tensai	Competition
Smallest size	√	×
Least weight	√	×
Lowest price	√	×
Largest print buffer	√	×
Most resident fonts	√	×
Fewest moving parts	√	×
Lowest running costs	√	×
Easiest serviceability	√	×

Tensai, the Genius, manufactured by Godrej, in technical collaboration with the Seiko Group of Japan, world-leaders in heavy-duty, high-speed printers. And available at the addresses given below. Buy one and you won't be buying just a new printer. You'll be buying a revolution.

☞ *One-year warranty inclusive of printhead.*

tensai THE GENIUS

Godrej OFFICE AUTOMATION®

Fire-power for winners.

Manufactured by : **Godrej & Boyce Mfg. Co. Ltd.,** Plant No. 24, OA Division, Pirojshanagar, Vikhroli (W), Mumbai 400 079. Tel: 5171166/77. Fax: 5172240. **AUTHORISED DISTRIBUTOR: Godrej Pacific Technologies Ltd.:** Plant 19A, 2nd floor, Pirojshanagar, Vikhroli (W), Mumbai 400 079. Fax: 5170415. **BRANCHES: Mumbai.** Tel: 2075162/65. Fax: 2852079 • **Pune.** Tel: 624588/628971. Fax: 628969 • **Ahmedabad.** Tel: 5831545-9. Fax: 5830336 • **Indore.** Tel: 539075. Fax: 533735 • **Jabalpur.** Tel: 316092. Fax: 311776 • **Surat.** Tel: 470125 • **Baroda.** Tel: 339369. Fax: 451066 • **New Delhi.** 6845002/7, 6830690. Fax: 6841482 • **Lucknow.** Tel:226645/228963/221671. Fax: 222061 • **Chandigarh.** Tel: 773238/ 6446. Fax: 703047 • **Jaipur.** Tel: 515182/514650. Fax: 515496 • **Madras.** Tel: 655666/6257331. Fax: 6257155 • **Bangalore.** Tel: 2276487/382/465/538/297. Fax: 2219312 • **Hyderabad.** 64495/201876/027. Fax: 203587 • **Vishakapatanam.** Tel: 545200. Fax: 545878 • **Thiruvanthapuram.** Tel: 460542/78104. Fax: 75935 • **Kochi.** Tel. 315680/314815. Fax: 371838 **Calcutta.** Tel: 370895-99/3596111/06. Fax: 3378271 • **Bhubaneshwar.** Tel: 405082/404289. Fax: 404222 • **Guwahati.** Tel: 540787/542851. Fax: 543466. **AUTHORISED DISTRIBUTOR: Computers & Peripherals Pvt. Ltd.** Harshad Exhibition Centre, Anand Bhawan Bajaj Road, Ville Parle (W), Mumbai - 400 056. Tel: 6718605/6711755. Fax: 6710980.

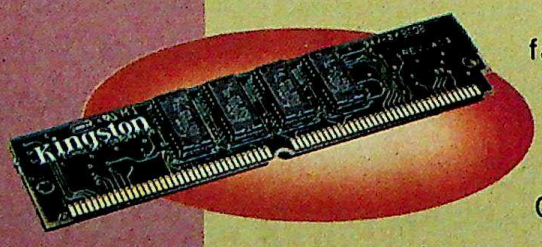
Mudra:GB:4582

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

If memory fails you don't Blame Your Computer

INSTALL GENUINE RAM FROM KINGSTON MARKETED IN INDIA EXCLUSIVELY BY TULIP SOFTWARE (P) LTD. IN ASSOCIATION WITH SUPERCOM



In case you forgot to buy genuine RAM for your computer, don't blame the memory malfunctions on your computer. Instead do the right thing by installing genuine Kingston RAM that comes to you with a **lifetime warranty.** Not that it's needed. Because this is the very RAM that has made **Kingston** the favorite RAM worldwide. Kingston available from **Tulip Software (P) Ltd.,** which is marketing them in association with **Supercom.** Get Kingston RAM now. Get Super-high quality at down-to earth prices.

TULIP

Tulip Software (P) Ltd. J-31, South Extension, Part - I, New Delhi-110049,
Ph. : 4620410, 4634402, 4694591, Fax : 4610292

SUPERCOM

127, Thapar Chambers-II, Opp. Kalindi Colony, Ring Road, New Delhi-110014,
Ph. : 6845437, 6920368, Fax : 6845437

Branch Offices ■ A-502, 'Basera', Vakola Masjid Lane, Santa Cruz (East) **Bombay** - 400055, Phone : 6133331, 6184618/9 Fax : 6182311 ■ W-120, III Avenue, Anna Nagar, **Madras,** Ph. : 6283436, Fax : 6216323 ■ Clockwork (The Business Centre), 17, Vasavi Complex, St. Marks Road, **Bangalore** - 560001, Ph. : (812) 2278668/9, Fax : (812) 215506, ■ 1062/2, Sector 39-B, **Chandigarh** - 14, Phone : 692069 ■ EBD Business Centre, 49, Rajpur Road, **Dehradun**-248001, Phone : 91(135) 24487/28730/277748, Fax : 28392, 27748

LIFE TIME ® Kingston TECHNOLOGY CORPORATION WARRANTY

HERALD-5-TSL-01

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Epson LX 300

A low noise, versatile and compact "personal" dot-matrix printer

The Epson LX-300 is a 9-pin DMP with a color upgrade option. The DMP's front panel is a standard one with fonts, line feed and pause buttons. These three buttons are also used in permutations with each other to achieve around 70 other settings, like character spacing, shape of zero, etc. But for all these settings you need to carefully consult the manual.

The LX-300 lets you print on single sheets with continuous paper loaded. You can adjust the placement of paper with the Micro Adjust option. The optional cut sheet feeder, priced at Rs 700, can handle up to 50 sheets of cut paper.

The printer did not come with any drivers. In Windows, we used LX-800 drivers (which the manual suggests as an alternative).

From Windows, the LX-300 gave only Letter-quality prints. Any settings, to draft mode from the printer's front-panel or the Windows' Control Panel were ineffective. However, the Draft mode worked fine under DOS.

In our tests, the printer performed well. Printing on multi-part stationery was trouble-free with good readability even on the last sheet. The multi-column documents were aligned properly.

It could not match this performance in the speed tests. It printed text documents at 161 cps, as against its claim of 220 cps in 10 cpi draft mode. The same document took sixteen and a half minutes in the best mode (Times New Roman) at a speed of 44 cps.

The LX 300 scored very high in the other features category, mainly due to the reasonable price and low cost of print head. This combined with space-saving design makes it an ideal DMP for single users.

RATING:

PRODUCT: Epson LX-300

TYPE: 9-pin, 80-column DMP

SUMMARY: This quiet DMP with a color upgrade option gives good quality prints at reasonable speeds. Ideal for single users.

SPEED: 161.07 cps (Draft); 43.86 cps (LQ)

PRICE: Rs 9,800

RQS#E0663

Godrej GS-150

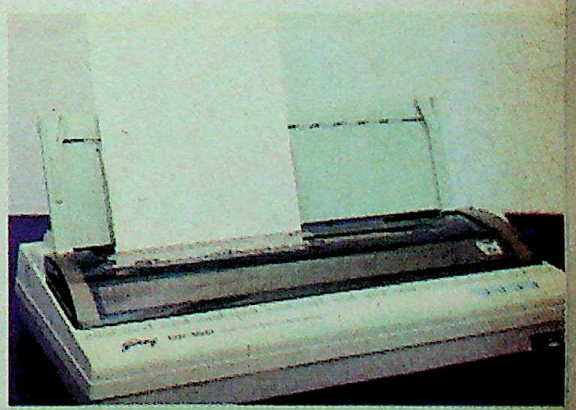
A neatly-designed 24-pin printer with reasonable quality

This model is from Godrej's *Tensai* range. The control panel is slightly different from the 9-pin model. There are four touch buttons for FF, Paper path, Quiet mode etc. In addition, there are four LEDs that indicate the printer's Power On, Online, Paper Out and Draft mode. This 132-column printer offers a choice of eleven fonts including Courier, Gothic, Script and Roman in five pitches. No printer drivers are supplied—the printer emulates the Epson LQ series.

The printer has a print head over heat protection mechanism by which it stops printing when the print head temperature exceeds a certain level. One problem faced with the review machine was that the left tractor clip tended to pop open by itself even when using single-part stationery. On multi-part paper, the first four forms had clear, legible printing, but the last one was a bit fuzzy.

At 153 cps in the draft mode and 60 cps in LQ, the 150's speeds are acceptable. The print quality is excellent in LQ mode. Windows test documents printed well even under Draft mode (120x180 dpi). The GS-150 gives clear prints at reasonable speeds. The GS150 came in fourth overall, and behind its 9 pin sibling, the GS 2415. In our quality tests, the GS 150 scored 1.18 points against 1.42 by the LQ 1070+ and in speed, the GS 150 scored 1.79 (2.67 for LQ 1070+). In features, the GS 150 got 0.54 (1.04 for LX 300). For printing under Windows, the GS150 performed well, scoring 8 out of a possible 10.

To sum up, a printer for mid-level printing requirements.



RATING:

PRODUCT: Godrej GS-150

TYPE: 24-pin, 132-column Dot Matrix Printer

SUMMARY: A slim model that gives sharp prints at average speeds.

SPEED: Text: 165 cps (Draft); 60 cps (LQ)

PRICE: Rs 19,995

RQS#E0659

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Godrej GS-2415

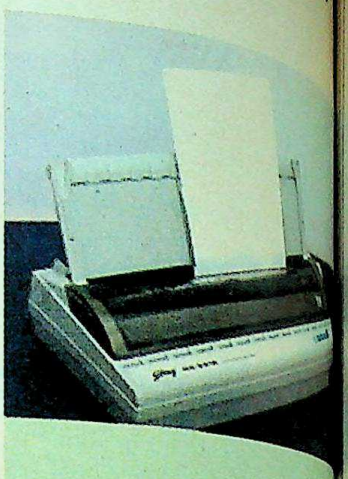
A 9-pin wide-carriage printer, with good print speeds

The GS-2415 is a light-weight, 132-column DMP that has Epson and IBM Proprinter emulation. The control panel has five brightly colored soft touch buttons that have a positive feel. In addition there are three LEDs for indicating NLQ, power on and Paper out. You can choose from five fonts, four pitches and a proportional mode. There are three NLQ fonts and several under Draft. Under the Speed Draft mode, the rated speeds touch 240 cps at 12 cpi. The manuals claim speeds of 300 cps under Super Speed Draft. In our tests, we got 276.5 cps in this mode. No drivers were supplied with the printer.

Configuring the printer settings is slightly unusual in the GS-2415. The font types and sizes available are printed on the printer's cover. The margins, pitch and fonts can be configured using the Paper Park, LF/FF and NLQ buttons respectively. After going into the menu mode, you position the print head against your selection on the front cover.

Then press Shift to set the selection and put the printer on-line. The printer has a serial port in addition to the parallel one.

The GS-2415 gave speeds of 276.5 cps in the Draft mode. Under LQ, it printed 33.3 cps—fairly fast for a 9-pin. The printer handled multi-part paper with ease. We had no paper-jams even with the five-part forms, and readability was excellent on each form. On the whole, a good printer for voluminous multi-part jobs.



RATING:

PRODUCT: Godrej GS-2415

TYPE: 9-pin, 132-column DMP

SUMMARY: An average printer that gave ... speeds. Good for multi-part printing.

SPEED: Text: 276.5 cps (Super Speed Draft) ... (LQ)

PRICE: Rs 15,995

RQS #E0657

L&T Scribe 36, Paragon 36

Two economical 9-pinners that handle multi-part forms well

The Paragon 36 and Scribe 36 are two similar 9-pin models from L&T. The Paragon 36 with a rated speed of 300 cps, optional color cartridge, and a higher price tag, is a minor upgrade over Scribe 36.

The models have standard features including a quiet mode, micro-adjust, paper parking for fanfold paper, condensed mode and pitch selection buttons on the front-panel.

The Paragon 36 left a large top margin when printing on single sheets. Even after several changes to the page setup, the problem still persisted. In the multi-part test it performed well with good readability in all copies.

Unlike the Paragon which has seven fonts including Letter Gothic, TW-light, Script and Cinema, the Scribe offers just two NLQ fonts. The Scribe gave throughputs of 160 cps in 10 cpi Draft mode and 35 cps in 10 cpi NLQ. The Quiet mode slows down the printers considerably. Scribe 36 can print condensed under NLQ mode—a feature not very common in 9-pin DMPs.

On the whole, two moderately priced models that deliver good prints and average speeds.

RATING:

PRODUCT: L&T Scribe 36, L&T Paragon ...

TYPE: 9-pin, 132-column DMP

SUMMARY: (Scribe) Text:: 160 cps (Draft); ... (NLQ); (Paragon) Text: 197 cps (Draft); ... (LQ) A good unit for printing multi-part ... print in condensed form under ... (Paragon 36) faster and slightly ... offers colour option.

SPEED: (Scribe 36)

PRICE: Rs 12,950 (Scribe); Rs 15,950 (Para...

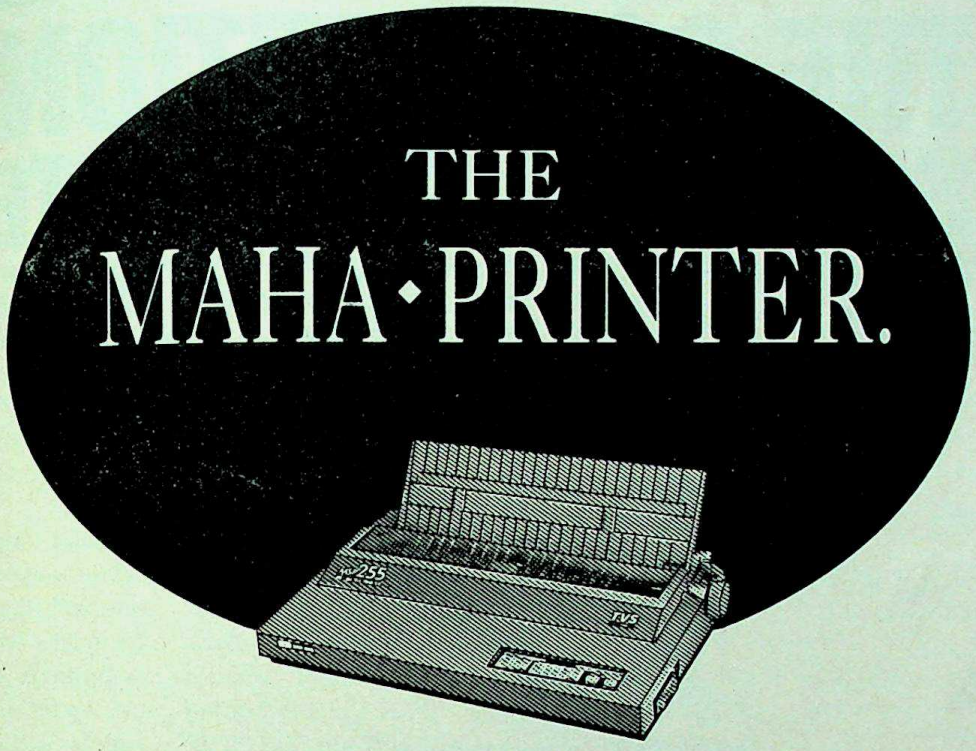
RQS #E0661

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TVS
ELECTRONICS

THE MAHA·PRINTER.



(INTRODUCING MSP 255)

TVS Electronics presents MSP 255, the Mahaprinter from the Maha family. The MSP series - India's largest selling brand of dot matrix printers. A 9 wire, 132 column, 300 cps printer - the MSP 255 is **built to last** with a printhead life of over 200 million characters. What's more it's absolutely hassle-free and easy to use. Try it and see why it's a Maha-buy.

TVS ELECTRONICS LTD.
WORLD CLASS. DESIGNED IN INDIA.
THE NO. 1 IN PRINTERS

The MSP series consists of MSP 145 Plus, MSP 155, MSP 240, MSP 255.

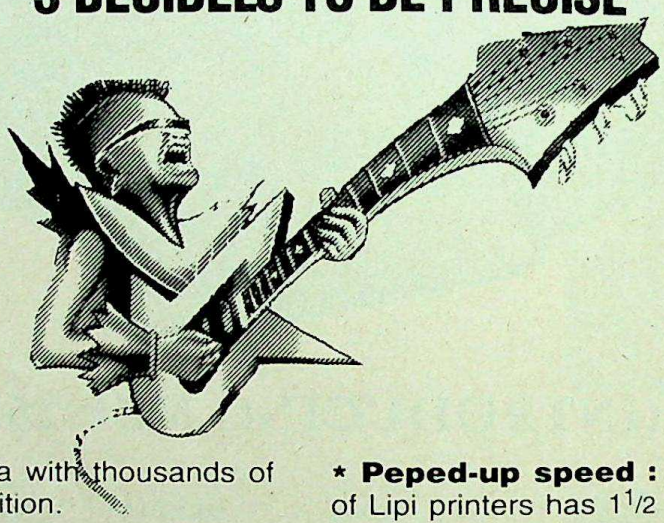
For further information, contact: TVS Electronics Ltd., 10-B, I-Phase, Post Box No. 5805, Peenya, Bangalore 560 058.
Or fax us at 080-8396334. Ahmedabad: 7411227/7478619. Bangalore: 2261723/2261713. Bombay: 6247350/6247364.
Calcutta: 262137/268355. Delhi: 6212576/6212577/6212578. Madras: 6412422/6412650. Pune: 332856/369346. Secunderabad: 847244.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WITH ALMOST ALL OUR FEATURES SCORING OVER THE COMPETITION, IT'S NATURAL LIPI PRINTERS DO MAKE SOME NOISE,

3 DECIBELS TO BE PRECISE

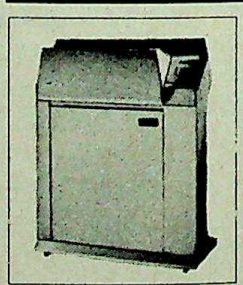


* **Proven reliability :** In India with thousands of installations against nil of competition.
* **Superior Print Quality :** Because of hard material used for printing elements.
* **Superior Paper Transport :** 4 tractors for reliable and fast paper movement and also reverse paper motion for printing graphics. Competition has only 2 tractors.
* **Multiple Interface :** Simultaneously active serial and parallel shared interfaces with auto switching, while competition requires selection from the front panel.
* **In-line ethernet interface :** Network printer.

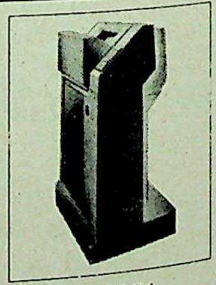
EXCELLENT BUY FOR PRINTING SHARE CERTIFICATES / BANK CHEQUES

* **Peped-up speed :** 17 1/2 inch carriage (optio of Lipi printers has 1 1/2 inch of added carnage w to accommodate large size forms like two B Cheques / Share Certificates printed abreast, doubling the throughput as compared to competition. This gives you an advantage of ha two printers for the price of one.

LIPI EXCELS IN HIGH SPEED, HEAVY DUTY COMPUTER PRINTERS



MT691
1400 LPM



MT661
800 LPM

MT645
450 LPM

LIPI DATA SYSTEMS LTD.
Head Office : Mittal Chambers, Nariman Point, Bombay - 21.
Tel: 2882960 / 61 / 62 / 63 / 64. Fax: 91-22-2873314.

MANNESMANN Tally

ISO 9001

- **Bombay** : Ph.2882960 / 2882964 • **Delhi** : Ph. 6467228 / 6217392 • **Calcutta** : Ph. 2429435 / 2429550
- **Bangalore** : Ph. 2272954 / 2272955 • **Madras** : Ph. 8283804 / 8281256 • **Udaipur** : Ph. 521700
- **Hyderabad** : Ph. 815185 • **Lucknow** : Ph. 235812 • **Nagpur** : Ph. 523187 / 526761 • **Bhopal** : Ph. 571541
- **Panaji** : Ph. 223712 • **Pune** : Ph. 455729 / 454449 • **Ahmedabad** : Ph. 6569170 • **Baroda** : Ph. 328256

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

NEC P8000

Feature-packed 24-pinner that's fast, but expensive

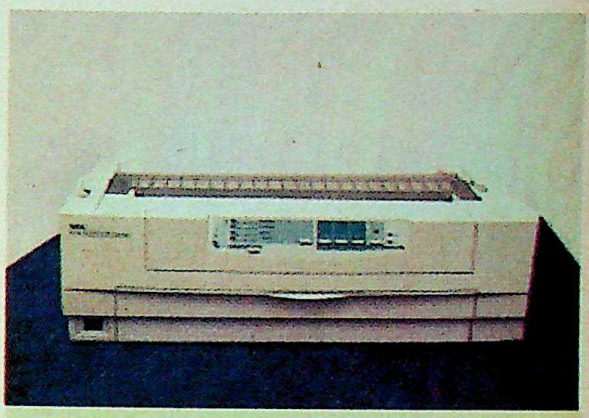
The PinWriter P8000 from NEC is a 24-pin, 132-column DMP. At a rated 330 cps (Draft, 12 cpi), this is the fastest rated printer tested. The P8000 was shipped to us without any drivers or other software and there were no instructions in the manual either. Under Windows, we installed NEC 5300, the nearest printer model available and were up and running in no time.

The P8000 has three paper paths—front and bottom. There's a slick-looking front panel replete with buttons and indicators. To configure advanced features like character sets, emulation and buffer size, you need to enter the Menu mode. It starts by printing out the current settings for a function and then lets you make your selection. Going through this cumbersome process makes you wish for an easier way out, something like the LCD panels in some of the other printers. The Menu Mode allows up to three users to enter their desired settings. These can be saved and used thereafter.

The P8000 has a quiet mode that reduces noise levels drastically, but of course you have to make do with the reduced speeds.

Setting the paper thickness lever to five or above starts up a copy mode in which the printer's speed is reduced in order to maintain print quality.

The P8000 did well in our tests. It gave speeds of 210 cps under draft and 62 cps under LQ. The columns in the multi-column documents were perfectly aligned in both normal and condensed modes. The 8000 came second just behind the LQ 1070+, scoring 4.26. At Rs 29,600 the P8000 is the most expensive DMP reviewed. But considering the output quality, it's worth it.



RATING:

PRODUCT: NEC PinWriter P8000

TYPE: 24-pin, 132-column DMP

SUMMARY: A quiet printer with a well-designed front-panel, three paper paths and multiple-user mode.

SPEED: 210 cps (Draft, Normal), 275 cps (Draft High Speed); 62 cps (LQ Normal), 74 cps (LQ High Speed)

PRICE: Rs 29,600

RQS#E0660

NEC P1200, P1300

Two low-priced 24-pinners with average performance

These are two of NEC's older models. As is to be expected, newer models from competitors have left them far behind.

The P1200 is an 80-column model and the P1300 is lighter than the 132-column model. The front panels of both these printers are identical. The sparse panels reduce the cost of essential controls like the font button and a font pitch selector. The lack of a condensed mode is a letdown since the printer driver also doesn't support options for condensed printing and the only way to do so is to insert escape sequences into your document. Both models come with guides for cut sheets and continuous paper. Using continuous stationery is quite trouble-free. Even with five-part forms, there was no jamming, though the sheets did go off the sprockets once or twice. Print quality on multi-part sheets was also satisfactory. Operating noise level was acceptable. Despite several attempts, the printers couldn't tackle multi-column printing and lost valuable points there.

The P1200 clocked 110 cps in draft mode (10 cpi) while P1300 gave 116 cps. In LQ mode (Helvetica PS 12 cpi), the P1200 gave 68.7 cps while the P1300 gave 66.25 cps.

RATING:

PRODUCT: NEC PinWriter P1200, P1300

TYPE: 24-pin DMP

PRICE: Rs 11,500 (P1200); Rs 14,950 (P1300)

SUMMARY: 80-column (P1200) and 132-column (P1300). Include printer drivers for DOS apps and Windows 3.xx, seven type styles, User's guide, rear-paper guide and sheet guide, rear and bottom feeds, optional cut-sheet feeder. Lacks a pause button and option for changing font pitch.

SPEED: P1200-110 cps (draft 10 cpi), 68.7 cps (LQ 12 cpi); P1300-116 cps (draft 10 cpi), 66.25 (LQ 12 cpi)

RQS# E0658

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Dot-Matrix Printers

A look at how the [illegible] perfor[illegible]

We reviewed 10 DMPs in the shootout—ranging from compact models like Epson's LX-300 to the heavy-duty ones like NEC P8000. The DMP market worldwide has been on the decline, and very few new models have been introduced in the recent past. As a result, most of the models reviewed are, unlike their counterparts in the laser and inkjet sections, relatively older.

One major trend noticed was the tremendous improvement in print quality. A DMP output at first glance was comparable to a print from a mid-level inkjet. And even under an x30 magnifying glass, the telltale dot pattern is not easily distinguishable! However, DMPs are being used predominantly for high-volume, low-quality printing jobs in the EDP departments of most organizations. We developed the DMP test suite keeping in mind typical usage patterns. Taking into account the individual user who uses DMPs to proof Windows output, we also included a speed and quality test under Windows.

In the quality tests the LQ-1070+ consolidated its lead further, but was given a tough fight by the other models.

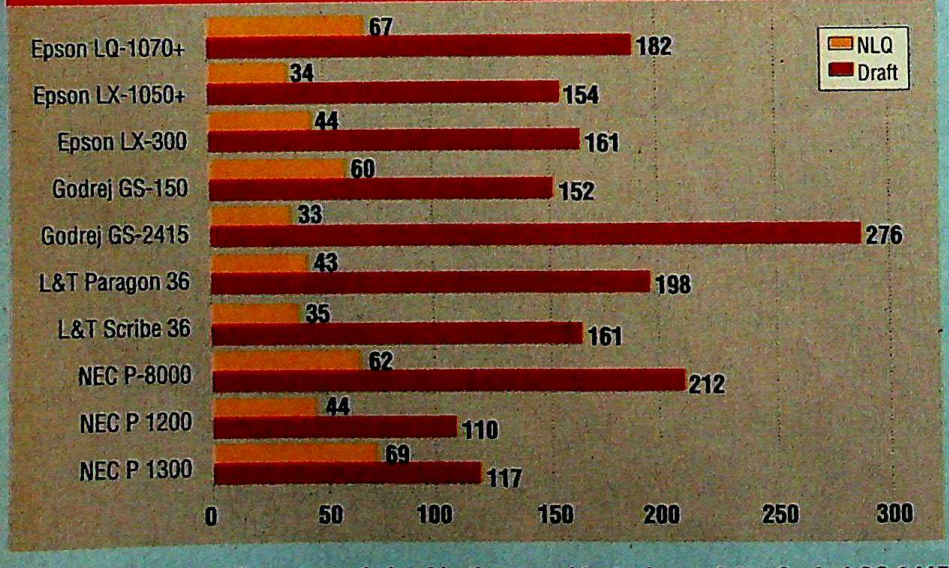
When it came to features, LX-300 topped the lot with its low list price and nominal print head replacement costs.

The P8000 from NEC was a close contestant, especially in the speed tests.

The Scores

Model	Speed	Quality	Features	To[illegible]
Epson LQ-1070+	2.67	1.42	0.53	[illegible]
Epson LX-1050+	1.17	1.17	0.75	[illegible]
Epson LX-300	0.79	1.02	1.04	[illegible]
Godrej GS-150	1.79	1.18	0.54	[illegible]
Godrej GS-2415	1.90	1.30	0.72	[illegible]
L&T Paragon 36	1.41	1.26	0.70	[illegible]
L&T Scribe 36	1.15	1.33	0.79	[illegible]
NEC P8000	2.47	1.39	0.40	[illegible]
NEC P1200	0.80	1.05	0.72	[illegible]
NEC P1300	0.93	0.95	0.60	[illegible]

PRINTER SPEED IN CPS



Epson LQ-1070+ built up an early lead in the speed tests. In our labs, Godrej GS-2415 produced the highest raw print speeds clocking 276 cps in Draft mode. NEC 1200 was the slowest at 110 cps. In NLQ mode NEC P1300 was the fastest at 69 cps, while GS-2415 came out last at 33 cps

Features

Model	List Price (Rs)	Warranty (Yrs)	Pri[illegible]
Epson LQ-1070+	25,900	1	[illegible]
Epson LX-1050+	16,900	1	[illegible]
Epson LX-300	10,600	1	[illegible]
Godrej GS-150	19,995	1	[illegible]
Godrej GS-2415	15,995	1	[illegible]
L&T Paragon 36	15,950	1	[illegible]
L&T Scribe 36	12,950	1	[illegible]
NEC P8000	29,600	1	[illegible]
NEC P1200	11,500	1	[illegible]
NEC P1300	14,950	1	[illegible]

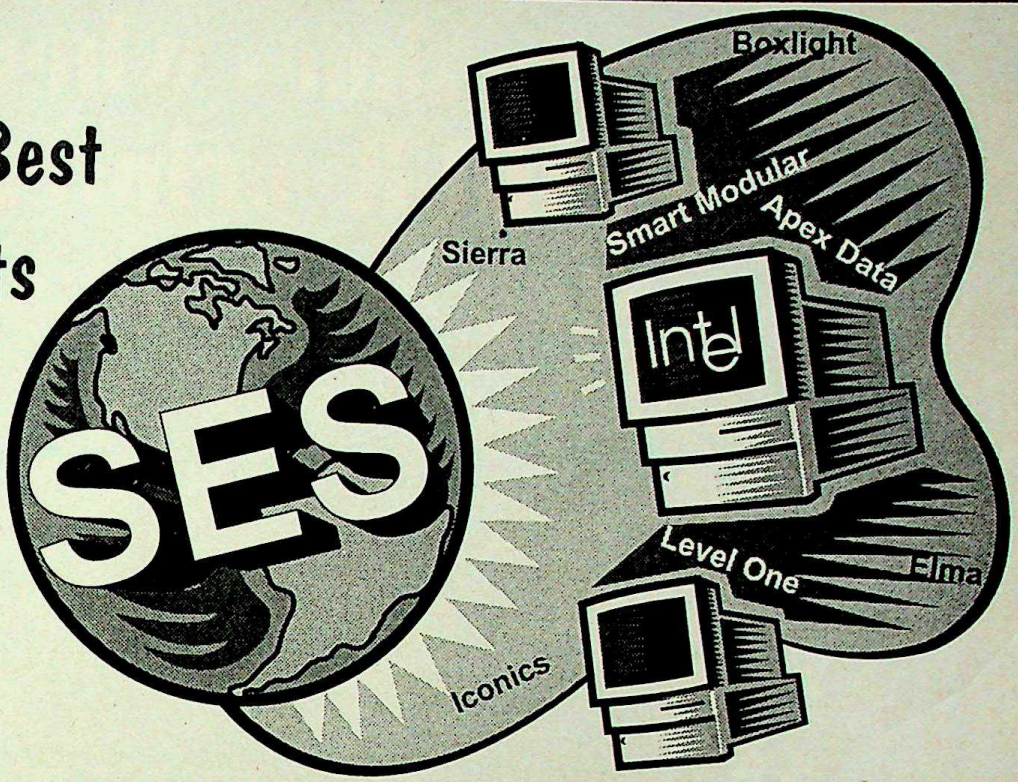
*Cost of print heads per million chara[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INTEL SIERRA BOXLIGHT LEVEL ONE SMART MODULAR ELMA SIGMA APEX DATA

Get The World's Best I.T. Products From SES



SES Computers & Technologies Pvt.Ltd. offers a wide range of the world's most advanced I.T.Products through a national marketing network.Each product selected for its sheer power, total stability,clever innovation and unmatched reliability, backed by a committed team of skilled professionals providing total service support.

Products offered are:

Intel. Complete Range of Microprocessors,Pentium's & Motherboards.**Sierra Semiconductors.** Multimedia Modems.AccuSound Full-Duplex SpeakerPhone,Modem with Plug & Play,Voice View Support,SRS Surround Sound.**Prometheus.** World class Telephony Enhanced Modems.**Boxlight Corporation.** Mutibook - Full-featured486DX4 notebook computer with unique removable project through LCD display - best of both worlds -presentation convenience and powerful computing.**Elma.** Industrial PC Systems.**Smart Modular Technology .** Code Developers Kit for SIMM's,SIMM Modules,EDO DRAM Memory Modules,SRAM Modules,DRAM DIMM Modules.**Apex Data** Cellular Ready Data/Fax Modems,Mobile data/fax Modems,Token-Ring Adapters,Ethernet Adapters,Serial Port Card .**Sigma Technology.** High performance graphic accelerators for Document Imaging,Disk Drive Array's,Display Controllers,Multifrequency Colour Display Systems.**Iconics.** Software Tools for Manufacturing and Process Automation.**Level One.** IC's for Communications Industry,PCM Transceivers, Repeaters,LAN Transceivers,etc.

Authorised Distributors:

SES Computers & Technologies Pvt.Ltd.

BANGALORE :G3,Cunningham Apartments, 5,Edward Road Bangalore 560052.Phone:2254490 / 2259469 Fax: 080-2254491.BOMBAY : Phone - 022-8380055 / 8341584 Fax:022-8380266.NEW DELHI : Phone-011-6188564 Fax 011-6165933. HYDERABAD : Phone / Fax- 040-3745499 . PUNE : Phone-0212-326900.

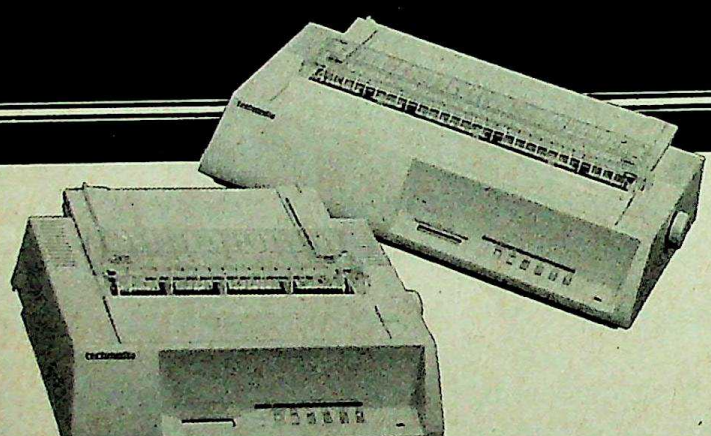
INTEL SIERRA BOXLIGHT LEVEL ONE SMART MODULAR ELMA SIGMA APEX DATA PROMETHEUS ICONICS INTEL

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

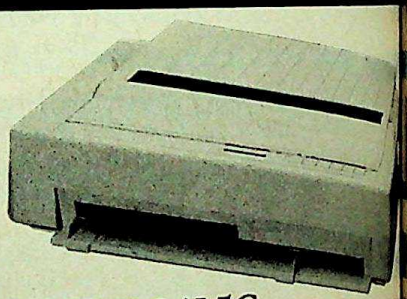
There are times when even SANDUR printers stop working.

Power Cuts, Network System is down, All PCs in your office are attacked by virus, You run out of printing stationery, Entire EDP staff are on leave , You try printing without connecting your printer cable.....



TM 2411S/TM2416S

- Advanced 24 pin, 80 Col, 240 Cps/24 pin 136 Col, 240 Cps.
- LCD panel, 3 programmable menu selections.
- User friendly front panel operations, no confusing DIP switches.
- 6 Built-in fonts, 12 pitch selections.
- On line selection of font & pitch.
- Thermistor controlled print head.
- Paper parking/zero inch tearoff/quite mode.
- Built-in serial interface.



TM 2415C

- 24 pin, 136 col, 240 Cps Colour Printer.
- 4 Paper paths (Front, Bottom, Continous & Cut sh
- User friendly front panel operations, no confusing D
- 6 Built-in fonts, 12 pitch selections.
- On line selection of font & pitch.
- Paper parking/zero inch tearoff/quite mode.
- Built-in serial interface.
- EPSON compatible, low priced, longer life colour ri

SANDUR ELECTRONICS

A Division of The Sandur Manganese & Iron Ores Limited

86/B, Industrial Suburb, II Stage, Yeshwantpur, Bangalore-560 022. Phone: 3376679, 3379981, 3372268. Fax: 080-337

Dealers: **Amritsar:** Data Bite (India) - 273029. **Ahemedabad:** Shivam Computer Pvt. Ltd. - 400914. Orbit Circuits - 466156. **Allahabad:** Micro Computers - **Ambala:** Orbital Engineers - 440746. **Bangalore:** Computronix Inc - 2265903, 2202911, Chinmaya Computer Centre -3345063, Figaro Micro Systems - 57 PC Link System - 321614. **Bhopal:** Digital Maintenance Services - 767839. **Bhubaneswar:** CRAC - 417652. **Calcutta:** Silicon Infotech - 242430 **Cannanore:** Microsoft Consultants - 60883. **Bombay:** Lanmark Systems & Services - 3851416. **Chandigarh:** Ideal Computer Care - 607793. **Cochin:** Data 373444. **Coimbatore:** Caps - 449161. **Cuddalore:** Sigmatech Electronics - 20634. **Davanagere:** Infotech Computer Systems - 28613. **Dehradun:** 626039. **Erode:**Perfect Technologies - 72024. **Gorakhpur:** N M Enterprises - 337021. **Gujarat:** Tornado Sales & Service - 22294. **Gwalior:** Marquis Co **Hassan:** Interface Integrated Technologies - 69688. **Hospet:** Computer Embassy - 57609. **Hosur:** Figaro Micro Systems - 2435. **Hubli:** Dinakar Ma - 367464. **Hyderabad:** Insight Computers - 290393. **Indore:** Rainbow Computers - 532352. **Jabalpur:** Inprint - 316359. **Jaipur:** Bits & Bytes - 362827. C 383958. **Jodhpur:** Shagun Electronics - 38017. Suncity Computers - 38017. **Kanpur:** Micro Soft Acc (P) Ltd. - 542679. **Kottayam:** ASCI Systems & Com 62894. **K.G.F.:** SS-Electronics -55185. **Kochi:** Computer Bazar 355422. **Lucknow:** Micro Soft Ace (p) Ltd. - 278196. **Madras:** Sigmatech Electronics - 22355. **Nagpur:** Sigma Computech Pvt. Ltd. - 4943930. **Madurai:** C Plus - 540995. **Managlore:** C Net Systems - 428685. **Mayiladuythurai:** Base Computers - 22355. **Noida:** DNS Com - 767131. **New Delhi:** Computer World - 3329745, CompuServe - 6432124, Hikita Computer World - 3552150, Pree Compuserve -3289150. **Shimla:** Peripherals - 85 67486. **Rai Bareilly:** Prajya Computer - 803264. **Rajahmundry:** Micromatiks - 71702. **Salem:** Star Lite Automations - 448504. **Trichy:** Systems - 21124. **Secundrabad:** CTE Systems - 831744. **Surat:** Shree Rang Comuter - 426527. **Thanjavur:** Star Base Computers -20947. **Trichy:** 432118. **Trivandrum:** Kricen Computers - 463114. **Udaipur:** Vrdhman Computers - 414543. **Ujjain:** Mettle Communications - 57204. **Varanasi:** 312780. **Vishakapatnam:** Gayathri Computers - 546804. **Vijayawada:** Mist Computers -477620.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Speed Tests

Model	80-col NLQ	132-col NLQ	80-col Draft	132-col Draft	Multicol NLQ	Multicol condensed	Windows NLQ
Epson LQ-1070+		371.37		137.66	53.67	36.08	83.25
Epson LX-1050+		740.45		162.40	168.22	135.87	224.46
Epson LX-300	570.40		155.22		0.00	0.00	153.96
HP Deskjet GS-150		419.29		163.97	169.05	48.10	93.39
HP Deskjet GS-2415		749.79		90.45	137.29	48.94	185.29
HP LaserJet Paragon 36		577.13		126.32	132.65	174.38	144.48
HP LaserJet Scribe 36		721.38		155.65	153.99	202.95	209.77
IBM P8000		403.12		117.79	60.81	48.33	68.04
IBM PI200	377.38		227.14		0.00	0.00	124.73
IBM PI300		363.67		214.13	0.00	0.00	129.12

Note: Time in seconds. If the printer could not print multicolumn text properly, then the time was taken as zero.

Comparative Quality

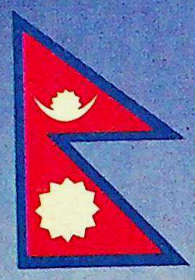
Model	Multipart NLQ	Multicol	Multipart Draft	Multicol cond	Windows
Epson LQ-1070+	5	1	5	1	10
Epson LX-1050+	5	1	5	1	2
Epson LX-300	4	1	4	1	3
HP Deskjet GS-150	4	1	4	1	8
HP Deskjet GS-2415	5	1	5	1	6
HP LaserJet Paragon 36	5	1	5	1	5
HP LaserJet Scribe 36	5	1	5	1	7
IBM P8000	5	1	5	1	9
IBM PI200	5	0	5	0	4
IBM PI300	5	0	5	0	1

Note: Multipart is the last page of a 5-part form that was clearly readable. Some of the printers are rated for only 3-part forms. If the printer printed multi-column text in a readable form and as formatted, then it scored 1, otherwise 0. Score under Windows is the comparative quality of an NLQ print. The higher the score, the better the quality.

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

We don't promise return-tickets for going to



Nepal through us.

We can only promise returns on investment.

Today Nepal is a booming multi-crore I.T. market. A market that's being eyed upon by transnational and major Indian companies alike. For hardware and software. Networking and AMCs. Peripherals and Training. Today it makes perfect sense to be in Nepal. *And PC Quest, with its experience, focus and approach, is all set to take you there.*

THE PERSONAL COMPUTING MAGAZINE

PC QUEST NEPAL

Your ideal route to I.T. Nepal.

TO BOOK YOUR ADVERTISEMENTS CONTACT ANY OF THE FOLLOWING:

DELHI RACHNA: PH. 6416315, 6476664 FAX. 6411692; **BANGALORE** BHAUMIK: PH. 2861511, 2862971; **MUMBAI** CHANDAN: PH. 6427910, 6450050/51 FAX. 6403986; **MADRAS** ANIL: PH. 459498 FAX. [illegible] **HYDERABAD** KRISHNA: PH. 848121 FAX. 816960; **CALCUTTA** PARTHA: PH. 2471285, 406492 FAX. 240[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Winners

The stars of the printer shootout, and what made them stand out

Among the 25 printers tested at PCQ Labs in May, and the five Editor's Choice winners, none reached the top because of outstanding performance in only one test or one group of tests. Most often, it was consistent performance across the speed and quality tests, coupled with good features, price and cost of consumables, that separated the winners from the rest.

In fact, only two of the five winners—the Epson LQ 1070+, and the Hewlett-Packard LaserJet 5—topped both the speed and quality tests in their category. The Brother 6300 from Modi Xerox got the Editor's Choice among the lasers by providing good printing at very low prices, and the Epson Stylus Pro narrowly lost in the inkjets category, partly due to its higher price.

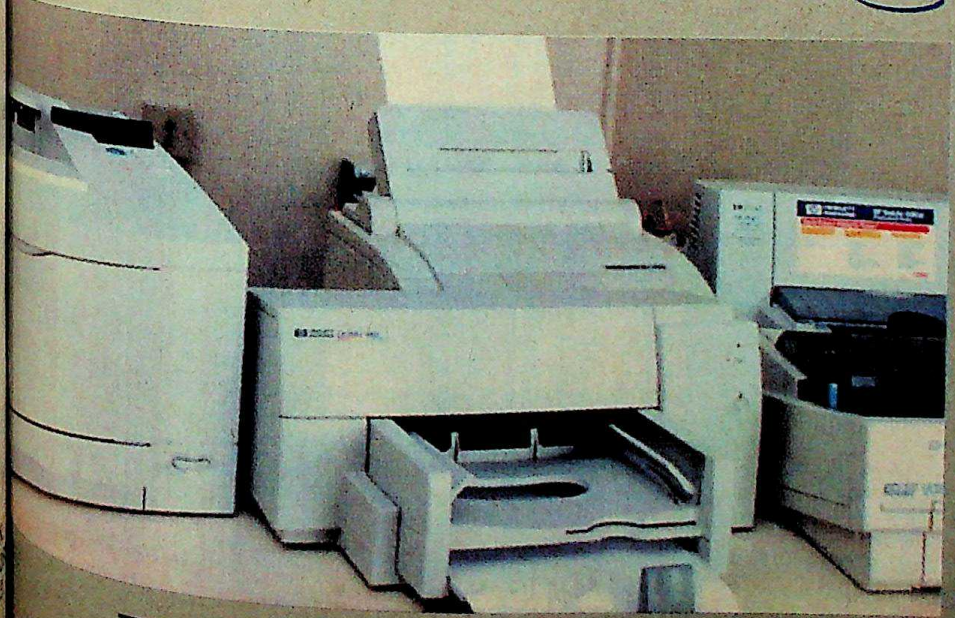
This is a comparative review, not an absolute benchmark. That is, the printer scores are derived by comparison to a specific model in the test category parameter. If any of these parameters were to change for any of the printers, or if a new printer were to be added to the list, or if one were to be deleted, then the scores could change substantially.

The competition was the fiercest amongst the high-end printers, with the printers racing neck-to-neck for the top spot. In contrast, the dot-matrix section looks more like a one-horse race. But this hides the fact that almost any of the models reviewed could win the day for you. All of them are thorough workhorses, but the LQ 1070+ turned out to be a thoroughbred.

Amongst laser printers too, competition was stiff, with the Hewlett-Packard LaserJet 5 turning out to be a top performer at the high end, and the Brother, at the lower price range. However, even if we were to remove the 0.6 point advantage that the Brother got over the LaserJet 5 for price, the Brother would still come in second.

THE WINNERS

LASER PRINTERS	
Editor's Choice	**HP LaserJet 5**
Editor's Choice	**Modi Xerox (Brother) 6300**
HIGH-END INKJETS	
Editor's Choice	**HP DeskJet 820 Cxi**
Highly Recommended	**Epson Stylus Pro**
MID LEVEL INKJETS	
Editor's Choice	**HP Deskjet 660 C**
Highly recommended	**Epson Stylus Color IIs**
DOT-MATRIX PRINTERS	
Editor's Choice	**Epson LQ 1070+**
Highly Recommended	**NEC PinWriter 8000**



CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CONNECT INDIA

THE COMMUNICATIONS EXPO FOR THOSE WITH A MISSION.

The rapid growth in the Indian Communications industry is a clear pointer to the potential India holds. But how do you reach out to this growing market? How do you interact with the vast segment that could use your products & services?

Presenting CONNECT INDIA '96 for you to display and interact with the Indian buyers & users of Telecom, Datacom & Officecom products and services. Right in the throbbing capital of the nation. During the pleasant month of September. Meet the cream of Indian business - top executives, administrative heads, Government functionaries and policy makers.

This second show of CONNECT INDIA comes to you from the IETE-CYBEREXPO combine. IETE is an advisory body to the Government of India & the proponent of the National Telecom Policy for 1992-93. CYBEREXPO is the organizer of the much sought after PC EXPOs and CSI exhibitions.

Taj Palace, New
September 29 - October 1,

CONNECT INDIA

CYBEREXPO
A Division of Cyber Media (India) Ltd.

PREMIUM STALL POSITIONS AVAILABLE

Contact the office nearest you: **DELHI** YOGESH: PH. 6416315, 6476664 FAX. 6411692; **BANGALORE** BHAUMIK: PH. 2868238 FAX. 2862971; **MUMBAI** CHANDAN: PH. 6427910, 6450050/51 FAX. 6403986; **MADRAS** ANIL: PH. 4[illegible] 8252828; **HYDERABAD** KRISHNA: PH. 848121 FAX. 816960; **CALCUTTA** PARTHA: PH. 2471285, 406492 FAX. [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by A[redacted]otri

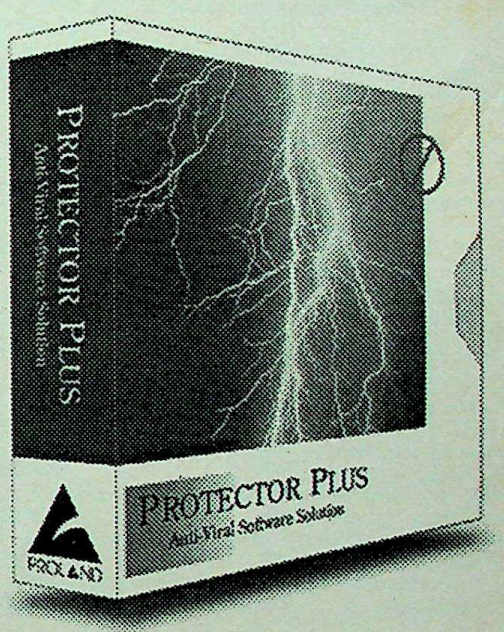
PROTECTOR PLUS ver 5.0

Anti-viral Software Solution

Compatible with:
- Windows 95
- Windows 3.1
- MS-DOS
- Novell-DOS
- OS/2

Introducing **Protector Plus ver 5.0**. The anti-viral software solution for stand-alone PCs. Its installation immunises the system against virus infiltration. Unlike other products in the anti-virus category that largely depend on a scan routine to detect the presence of virus, **Protector Plus** has on-line virus prevention system working round-the-clock.

- All types of boot viruses—known or unknown are automatically eliminated. Boot sector and partition table can be rebuilt.
- Monitors system for viral-like activity, preventing new file viruses from entering the system.
- Can detect changes in status of files and reconstruct them to their original state.
- Scans all files accessed, through any operation—read, write, copy, install, download, unzip, execute, etc...
- Select directories or entire drives can be scanned automatically at pre-scheduled intervals.
- Extensive and exhaustive reports on viral activity and scan results.



Anti-Viral Software Solution

PROLAND

Write, call or fax us for further information on this exciting new anti-viral software

PROLAND SOFTWARE PVT. LTD.,
19, Gangadhar Chetty Road, Bangalore-560 042
Phone: (080) 570033, 5511091 Fax: (080) 5511091
E-mail: subbu.proland@axcess.net.in

WE PRODUCE INTELLIGENT SOLUTIONS

Protector Plus
For NetWare

Your Future Proof Solution to virus problems

yes It runs with NetWare

Distributors:
ADIT MICROSYS (P) Ltd., **Ahmedabad** Tel: 079-408045, Telefax: 6425256
ANSI SYSTEMS (India) Pvt. Ltd., **New Delhi** Tel: 011-6863287, 6854196 Telefax: 6968663

Dealers:
Ahmedabad: Manan Enterprises Tel: 490338, Fax: 493-406; Bhavi Electromech, Telefax: 6633234 **Bombay**: Software Consultancy Group, Tel: 022-4301175/4302072, Fax: 4224912, E-Mail: bombay.scg@axcess.net.in **Coimbatore**: D-Tech Systems, Tel: 0422-212328 **New Delhi**: R.R. Computers, Tel:7510479 Astra Infotech, Tel: 6222191, Fax: 6447252 **Ernakulam**: Spiegel, Tel: 348202 **Gangtok**: Sikkim Computer Services (P) Ltd., Tel: 03592-22279, Fax: 22543 **Goa**: Jay Kay Enterprises Tel: 0832-736262/3 **Hubli**: Tolas Electronics, Tel: 65 227 **Hyderabad**: Susha Technologies Tel: 391954, Fax: 243634; **Jamshedpur**: Engineers & Consultants, Tel: 0657-29655, Fax: 26450 **Kanpur**: Jyothi Electro-Mech, Tel: 310811 **Kochi**: Spiegel, Tel: 0484-348202, Fax: 370136 **Ludhiana**: Litratim Microspecialities, Tel: 0161-456891 455860 **Madras**: Software Consultancy Group, Tel: 044-4340942, 4342938 Telefax: 4348912 **Nagpur**: Datacode Computer System, Tel: 221128, Fax: 236398 **Poona**: Link Software & Systems (P) Ltd., Tel: 335988/349342, Fax: 212-365694. **Punjab**: Rihal Computer Services, Tel: 01882-26294, 22385 **Rajkot**: Softrak Computer Consultancy, Tel: 48840 **Secunderabad**: Software Consultancy Group, Tel: 816216, 817075, 867039, Fax: 817075 **Trivandrum**: D.G. Computer Systems Pvt. Ltd., Tel: 471-62094

DEALERSHIP ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PRINTER SHOOTOUT

Mode	Mfr	Vendors	Specs	Drivers
DMP 80-Column				
P1200	NEC	Digital World India	24 Pin / 192 cps	DOS, Win 3.1
LX 300	Epson	Redington India	9 Pin / 220 cps	
DMP 132-Column				
P1300	NEC	Digital World India	24 Pin / 192 cps	DOS, Win 3.1
P8000	NEC	Digital World India	24 Pin / 300 cps	
GS-150	Seikosha	Godrej Trading & Services	24 Pin / 300 cps	
GS-2415	Seikosha	Godrej Trading & Services	9 Pin / 300 cps	
Scribe 36	L&T	Larsen & Toubro	9 Pin / 240 cps	
Paragon 36	L&T	Larsen & Toubro	9 Pin / 300 cps	
LX 1050 +	Epson	Redington India	9 Pin / 240 cps	
LQ 1070 +	Epson	Redington India	24 Pin / 269 cps	
Inkjets				
DJ 200	HP	Hewlett-Packard	600x300 dpi / 3ppm	DOS, Win 3.1
DJ 600	HP	Hewlett-Packard	600x600 dpi / 4 ppm	DOS, Win 3.1
DJ 660 C	HP	Hewlett-Packard	600x600 dpi / 4ppm	DOS, Win 3.1
DJ 820 Cxi	HP	Hewlett-Packard	600x600 dpi / 6.5 ppm	Win 3.1, 95
DJ 850 C	HP	Hewlett-Packard	600x600 dpi / 6 ppm	Mac, Win 3.1
JP 450	Xerox	Modi Xerox	600x300 dpi	Win 3.1, 3.11
Stylus Colour IIs	Epson	Redington India	720x720 dpi / 125 cps	DOS, Win 3.1
Stylus Pro	Epson	Redington India	720x720 dpi / 3ppm	Win 3.1, 3.11
GW IJC-80	Wipro	Wipro Infotech	720x360 dpi / 346 cps	DOS, Win 3.1
GW IJ-40	Wipro	Wipro Infotech	360x360 dpi / 173 cps	DOS, Win 3.1
GW IJC-5100	Wipro	Wipro Infotech	720x360 dpi / 510 cps	DOS, Win 3.1
Lasers				
SW SS 660i	NEC	Digital World India	600x600 dpi / 6 ppm	DOS, Win 3.1
LJ5P	HP	Hewlett-Packard	600x600 dpi / 6 ppm	DOS, Win 3.1, 3.11
LJ5	HP	Hewlett-Packard	600x600 dpi / 12 ppm	DOS, Win 3.1, 3.11
MX 6300	Brother	Modi Xerox Limited	300x300 dpi / 6ppm	DOS, Win 3.1
Xerox 4510	Rank Xerox	Modi Xerox Limited	600x600 dpi / 10 ppm	Win 3.1

Digital World India.
97, Marol Co-Operative Ind Estate,
Andheri Kurla Road, Andheri East
Mumbai 400 059.
Tel: 22-8385686. Fax:22-8381074

Modi Xerox .
BDU-ODS, 809-10, 8th floor,
Hemkunt Tower, Nehru Place,
New Delhi 110019.
Tel:11-6228247

Redington India.
SPL, Guindy House,
95, Mount Road, Madras 600 032.
Tel:44-2353313, Fax:44-2352790

Hewlett-Packard
24, Paharpur Business
Nehru Place, New
Tel:11-6472311 Fax:

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

VIEWED

Consumables	Price
Print head 100 million characters@Rs 6,500 Ribbon Life 1000 Pgs @Rs 275	Rs 11,500
Print head 200 million characters @ Rs 2,700 Ribbon Life 3 million characters @ Rs 180	Rs 10,600
Print head 100 million characters@ Rs 6,500 Ribbon Life 100 Pages@Rs 275	Rs 14,950
Print head 100 million characters@ Rs 7000 Ribbon Life 800 Pages@Rs 275	Rs 29,600
Print head 100 million characters @Rs 4,100 Ribbon Life 3 million characters @Rs 170	Rs 19,995
Print head 100 million characters @ Rs 2,200 Ribbon Life 3 million characters	Rs 15,995
Print head 200 million characters @Rs 4,725 Ribbon Life 2 million characters@Rs 125	Rs 12,950
Print head 200 million characters @Rs 4,725 Ribbon Life 2 million characters@Rs 125	Rs 15,950
Print head 200 million characters@Rs 3,500 Ribbon Life 3 million characters @ Rs300	Rs 16,900
Print head 200 million characters@Rs 5,500 Ribbon Life 3 million characters @ Rs 300	Rs 25,900
Black cartridge@ Rs 901 Color cartridge@Rs 2,032	Rs 8,995
Black cartridge 1000 pages@ Rs 901 Color cartridge 350 pages@Rs 2,032	Rs 14,500
Black cartridge 1000 pages@Rs 1,914 Color cartridge 350 pages@Rs 2,032	Rs 21,500
Black cartridge 1000 pages@Rs 2,090 Color cartridge 350 pages@Rs 1,914	Rs 26,000
Black cartridge 1000 pages@Rs 2,090 Color cartridge 520 pages@Rs 1,914	Rs 28,899
Black cartridge 3 million characters@Rs 1,250 Color cartridge 250 pages@Rs 1,950 Ink Tank Black 4 lakh characters@Rs 250	Rs 22,000
Black cartridge 800 pages @ Rs 1,100 Color cartridge 300 pages @ Rs 1,700	Rs 15,900
Black cartridge 800 pages @ Rs 1,100 Color cartridge 300 pages @ Rs 1,700	Rs 35,900
Print head + Black cartridge @Rs 1,182 Print head + Color cartridge @Rs 2,656	Rs 24,900
Print head + Black cartridge @Rs 2,153	Rs 15,900
Black cartridge @ Rs 456 Color cartridge @ Rs 1,141 Laser	Rs 23,900
Toner cartridge 4000 Pages @Rs 4,500	Rs 48,500
Toner cartridge 4000 pages@Rs 6,471	Rs 56,370
Toner cartridge 6800 pages@Rs 8,991	Rs 85,600
Toner cartridge 3000 pages @ Rs 1,800 Drum Unit 18000pgs@Rs 9,000	Rs 29,000
Toner cartridge 4000 Pages @ Rs 4,650	Rs 67,500

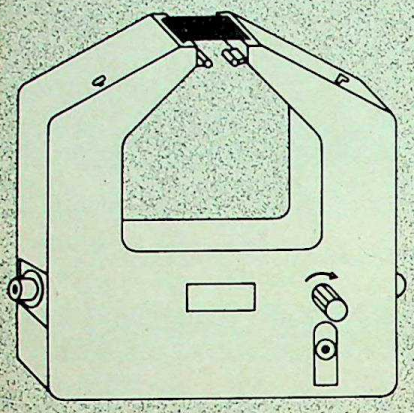
Larsen & Toubro .
8th Floor, Venkatramana Center,
563, Anna Salai, Teynampet
Madras 600 018.
Tel: 44-434309 Fax: 44-4342639

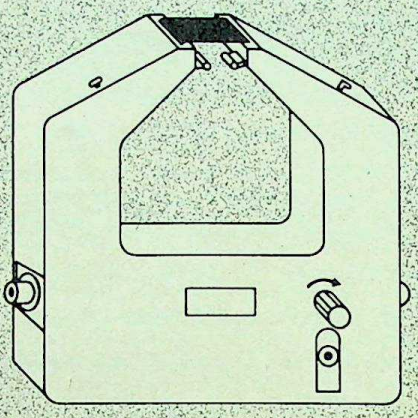
Godrej Trading & Services.
Plant 19A, Pirojshanagar,
Vikhroli, Mumbai 400 079.
Tel: 22-5174460
Fax:22-5170415

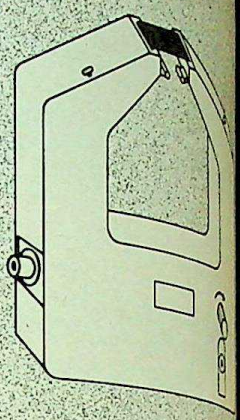
CC-0. Mumbai Public Library Gurukul Kangri Collection, Haridwar

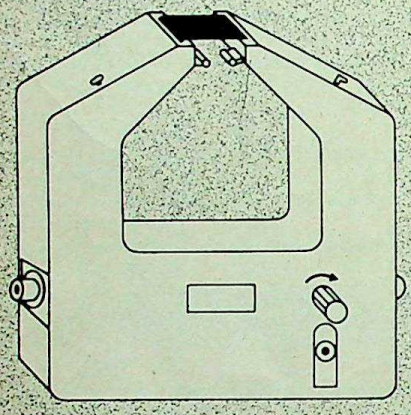
Digitized by Arya Samaj Foundation Chennai and eGangotri

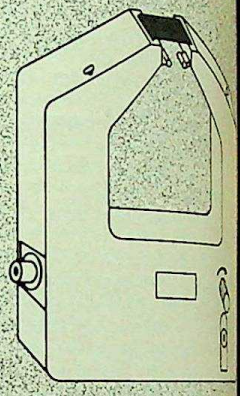
"All ribbons are not created equal"





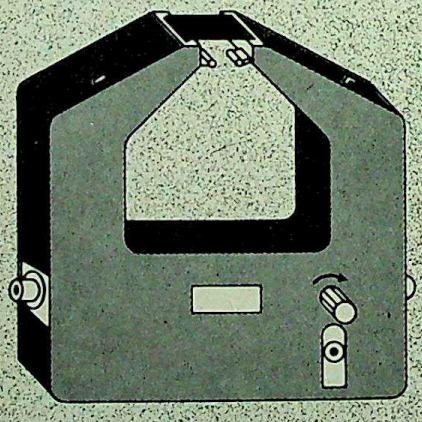






FREE HAND POUCH WITH A PURCHASE OF 24 TOPCLASS CASSETTES.*

Despite the similar appearance of ribbons from different manufacturers, not all ribbons are created equal. Topclass ribbons are made from imported raw materials, starting from the finest available Nylon 66 for fabric, best quality inks to the finest ABS plastic for the cassettes and parts. The cycle continues to the production process for inking, stuffing and welding ribbons to ensure consistent product quality throughout.



Topclass ribbons are available for over [illegible] models which include nylon cartridge ribbons, four colour ribbons, spool ribbons, [illegible] film ribbons, correctable film ribbons, [illegible] refill kits, telex ribbons, refill packs [illegible] pancakes.

So get in touch with your nearest dealer or call upon us for *"Impressions That Last Forever"*.

Topclass®
RIBBONS
Committed to your Success

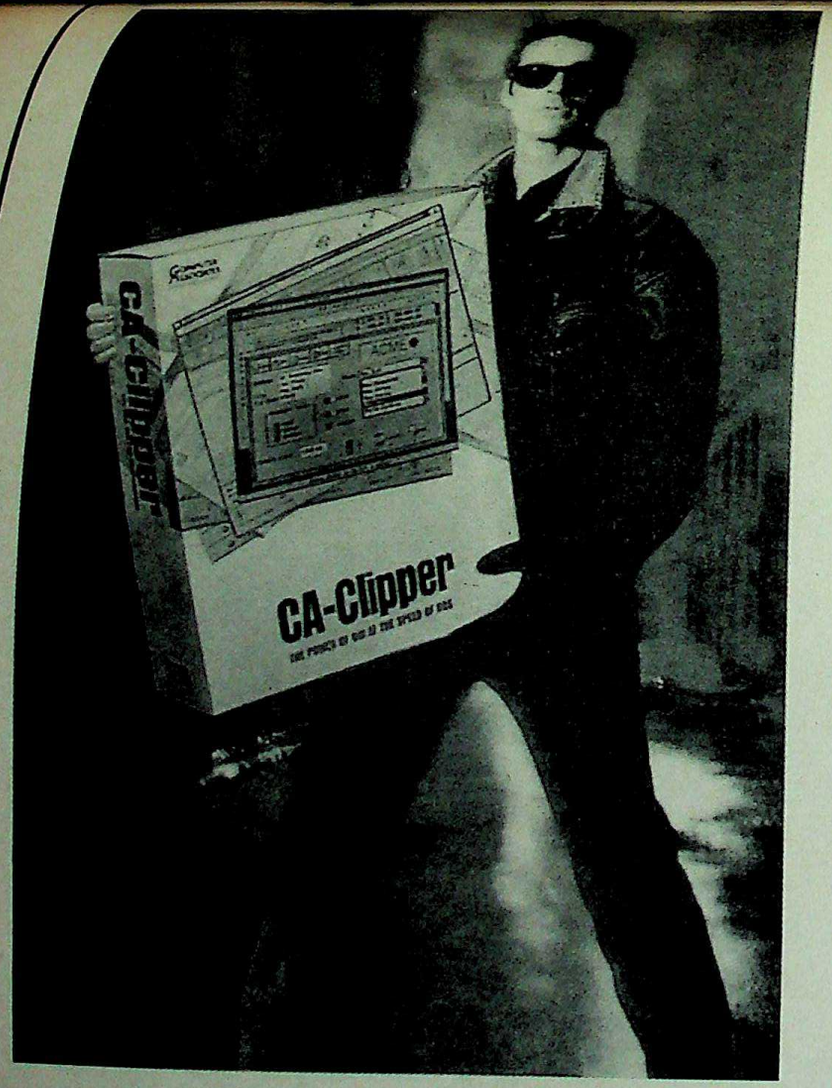
* Rush offer extend till 30th June 1996

AUTHORISED DEALERS : • **DELHI** THE SUMMIT, 6430415; RAMSONS ENTERPRISES, 5707328; ABACUS MEDIA, 5557444; NEELAM SALES AGENCY, 3746728; COMPUTER MART, 3747275; APEX COMPUTER CORNER, 3354481; THE ELECTRONIX SHOP, 6417921; NETWORK POINT, 2218586; COMPUTER MEDIA LINKS, 2414210; SOMAY SYSTEMS, 2467036; • **AHMEDABAD** PROMPT COMPUTER CENTRE, 6426652; • **AIZAWAL** SUNFLOWER ELECTRONICS, 23087; • **AMRAVATI** JUNEJA COMPUTERS, 674105; • **AMRITSAR** ANI MEDIA & PERIPERALS, 210564; • **ASSAM REGION** D.D. ENTERPRISES, HOSPITAL ROAD, SIB SAGAR; GOURI ELECTRONICS & BROTHERS, 22, SUKHES LANE, CALCUTTA; • **BARODA** JAY TRADING CORPORATION, 436681; NKS SYSTEM, 557542; • **BHATINDA** MANGLA SALES CO., 76059; • **BOKARO STEEL CITY**; EASTERN INDIA COMPUTER, P-15, SECTOR-4, CITY CENTRE, BOKARO STEEL CITY-827004, • **CALCUTTA** GENLITE PRIVATE LTD., 262065; • **CHANDIGARH** DATAPAQ, 774846; • **CUTTACK** NIGAM COMPUTERS & STATIONERIES, 25584; • **DEHRADUN** R.K. AGENCIES, 623514; • **FAIZABAD** MERAJ DISTRIBUTER, 813919; • **GHAZIABAD** S.P. ASSOCIATES, 8756476; • **GUWAHATI** MUKESH ENTERPRISES, 548110; • **GWALIOR (M.P.)** PARAGON COMPUTERS (P) LTD., 327299; • **INDORE** IMPACT DEALS, 465607; • **JAIPUR** BITS & BYTES, 366862; • **JALGAON** ADDON SYSTEMS & CONSULTANTS, 25778; • **JALANDHAR** SYNDICATE COMPUTERS, 227124; • **JAMMU** EMM ARR ENTERPRISES, 49506; KHAJURIA DATA PROCESSING CENTRE, 546805; • **JODHPUR** ELECTRO EQUIPMENTS, 31313; • **KANPUR** NICE COMPUTING, 292218; • **LUCKNOW** GNS ENGINEERS GROUP, 249302; MERAJ DISTRIBUTER, 221932; BEHARI OFFICE AUTOMATION, 393411; • **LUDHIANA** ESSAR ENTERPRISES, 459349; SYNDICATE COMPUTERS, 532856; • **MADRAS** FARZA COMPUTER SERVICES, 2331014; • **MEERUT CANTT.** HEEMO INDIA, 41207; • **NOIDA** THE ELECTRONIX SHOP, 8529979; • **PATIALA** INTEL SYSTEM & SERVICES, 304060; • **PATNA** KAISER COMPUTERS, 665231; • **RAIPUR** BHARGAVA COMPUTER SERVICES, 24792; • **RANCHI** COMPUTER SYSTEMS & SERVICES, 315175; COMPUTER DEN, 205795; • **RENUKOOT** (SONBHADRA) YASHWANT & BROTHERS ENTERPRISES, FLAT NO.6, DAYASHANKAR SINGH BUILDING, MURDHAWA, P.O. RENUKOOT, SONBHADRA (U.P.); • **SAHARANPUR** COMCON, 743440; • **SAMBALPUR** PRAKASH INFORMATICS, 3290; • **SATNA (M.P.)** KATARE'S COMPUTER LAND, 23625; • **SHILLONG** LIFELINE ENTERPRISES, 220280; • **UDAIPUR** M.M. ENTERPRISES, 83242; • **GWALIOR** M/S DATA PRINT, PHONE NO. 27565

Manufactured, Tested & Guaranteed

Supertimers
F-292, FLATTED FACTORY COMPLEX
OKHLA-III, NEW DELHI-110020
TEL. : 683 1999, 684 4333, FAX : [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar



Yo, Clipper Fans. Here it is.

Just Like We Promised. 5.3 With The Works. New RDDs. 64MB Memory. Better Doc. Better Support.

It's Faster, Smarter And Stronger Than Ever. So Grab It And Hang On. Because Suddenly The Future Is Looking Very Bright.

After being acquired by the world's leading application development company, Clipper is once again the standard for Xbase development. And with almost $2billion in sales, CA has the resources to keep Clipper – and you – on top. Today and tomorrow. Even while other Xbase standards stumble, falter and fade away.

It doesn't matter whether you're a Clipper, dBASE or FoxBASE user, if you're into the future of Xbase, this is one offer you shouldn't refuse. See your dealer or contact us for a special offer of **Rs.19,950/-***

CA-Clipper® 5.3.

Infosys

INFOSYS TECHNOLOGIES LTD.

'Pavitra Complex', No.1, 2nd Cross, 27th Main, BTM Layout 1st Stage, Bangalore - 560 068. India
Tel: (080) 668 1755, 668 0182, 0183, 0184, 0185. Fax: (080) 668 0181. E-mail: cathy@inf.com
Branch Offices : **Bombay:** (022) 2846490, 2882911, 2882914. Fax: (022) 2846489. **Delhi :** (011) 6853258. Fax: (011) 6853366.

COMPUTER® ASSOCIATES
Software superior by design.

Infosys is the authorised representative of Computer Associates in India. All brand and product names are registered trademarks of their respective holders.

***Offer valid only till stocks last.**

SOUTH/INFS/0196

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar
Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

PRINTER SHOOTOUT

PRINTERS BUYERS GUIDE

Type	Manufacturer	Vendor	Model	Specifications	Extra drivers for	Price (Rs)
DMP 80 Col	TVSE	TVSE	HD 6590	9 pin / 433 cps		23,995
DMP 80 Col	TVSE	TVSE	HD 6040	24 pin / 450 cps / colour		28,995
DMP 80 Col	TVSE	TVSE	HD 5650	24 pin / 300 cps		85,000
DMP 80 Col	TVSE	TVSE	MSP 240	9 pin / 240 cps		8,995
DMP 80 Col	TVSE	TVSE	Calligra Q 10	24 pin / 216 cps / colour		14,995
DMP 80 Col	TVSE	TVSE	Calligra Q 20	24 pin / 240 cps / LCD panel /colour		16,995
DMP 80 Col	Wipro	Wipro	LX 800	9 pin / 200 cps		8,500
DMP 80 Col	Wipro	Wipro	LQ 300	24 pin / 260 cps		12,700
DMP 80 Col	Wipro	Wipro	LQ 100	24 pin / 200cps		11,500
DMP 80 Col	Epson	Redington	LX 300	9 pin / 264 cps		8,500
DMP 80 Col	NEC	Digital World	P1200	24 pin / Mono / Network Compliant		11,500
DMP 80 Col	NEC	Digital World	P2000	24 pin / Mono / Network Compliant		11,500
DMP 80 Col	Panasonic	Godrej	KX-P1150	9 pin / 240 cps		8,000
DMP 80 Col	Panasonic	Godrej	KX-P1121	24 pin / 240 cps		12,500
DMP 132 Col	Epson	Redington	FX 1000	9 pin / 136 Col / 240 Cps		15,500
DMP 132 Col	Epson	Redington	LX 1050 +	9 pin / 136 Col / 240 Cps		14,800
DMP 132 Col	Epson	Redington	DFX 5000+	9 pin / 155 Col / 560 Cps		99,000
DMP 132 Col	Epson	Redington	DFX 8000	9 pin / 136 Col / 1066 Cps		1,70,000
DMP 132 Col	TVSE	TVSE	MSP 145 +	9 pin / 136 col / 240 cps		13,995
DMP 132 Col	TVSE	TVSE	MSP 155	9 pin / 300 cps		17,995
DMP 132 Col	TVSE	TVSE	HD 6595	9 pin / 136 col / 433 cps		27,495
DMP 132 Col	TVSE	TVSE	HD 6045	24 pin / 136 Col / 433 cps		36,495
DMP 132 Col	TVSE	TVSE	HD 5000	18 pin / 136 Col / 540 cps		98,885
DMP 132 Col	TVSE	TVSE	Calligra Q25	24 pin / 136 Col / 240 cps		22,495
DMP 132 Col	TVSE	TVSE	Calligra Q35	24 pin / 136 Col / 330 cps		27,995
DMP 132 Col	Wipro	Wipro	EX 1050	9 pin / 300 cps		17,000
DMP 132 Col	Wipro	Wipro	FX 1170	9 pin / 380 cps		27,000
DMP 132 Col	Wipro	Wipro	LX 1050 +	9 pin / 240 cps		14,800
DMP 132 Col	Wipro	Wipro	LQ 1050 +	24 pin / 300 cps		22,000
DMP 132 Col	Wipro	Wipro	LQ 1070 +	24 pin / 269 cps		22,200
DMP 132 Col	Panasonic	Godrej	KX-P2624	24 pin / 300 cps		22,500
DMP 132 Col	Panasonic	Godrej	KX-P3696	9 pin / 500 cps		27,500
DMP 132 Col	Panasonic	Godrej	KX-P3626	24 pin / 300 cps		24,500
DMP 132 Col	Seikosha	Godrej	GS-150	24 pin / 300 cps		19,995
DMP 132 Col	Seikosha	Godrej	GS-2415	9 pin / 300 cps		15,995
DMP 132 Col	OTC	Transmatic	OTC 4140	9 pin / Network Compliant	Win (95,NT)	1,52,880
DMP 132 Col	OTC	Transmatic	OTC 4130	9 pin / Network Compliant	Win (95,NT)	1,52,880
DMP 132 Col	OTC	Transmatic	OTC 850 XL	9 pin / Network Compliant	Win (95,NT)	1,19,945
DMP 132 Col	Sandur	Sandur	TM 3069V	9 pin / 136 Col / Network Compliant	Win (95,NT), OS/2, Mac.	15,500
DMP 132 Col	Sandur	Sandur	TM 2416S	24 pin / 136 Col / Network Compliant	Win (95,NT), OS/2, Mac.	19,000
DMP 132 Col	Sandur	Sandur	TM 2415C	24 pin / 136 Col / Color / Network Compliant	Win (95,NT), OS/2, Mac.	24,000
DMP 132 Col	NEC	Digital World	P1300	24 pin / 136 Col / Network Compliant		14,950
DMP 132 Col	NEC	Digital World	P3900	24 pin / 136 Col		19,750
DMP 132 Col	NEC	Digital World	P7300	24 pin / 136 Col / Dual / Network Compliant		28,000
DMP 132 Col	NEC	Digital World	P8000	24 pin / 136 Col / Dual / Network Compliant		29,600
DMP 132 Col	Compuprint	L&T	Compuprint 970	18 pin / 136 Col / 750 cps / Color / Network Compliant	Win (95,NT), OS/2, Mac.	1,20,000

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

PRINTERS BUYERS GUIDE

Type	Manufacturer	Vendor	Model	Specifications	Extra drivers for	Price (Rs)	RQS No.
Dot-Matrix 132 Col	Compuprint	L&T	Compuprint 1070	18 pin / 136 Col / 750 cps / Color / Network Compliant	Win (95,NT), OS/2, Mac.	1,30,000	#E06112
Dot-Matrix 132 Col	Compuprint	L&T	Signum 2043	9 pin / 136 Col / 480 cps / Color / Network Compliant	Win (95,NT), OS/2, Mac.	85,000	#E06113
Dot-Matrix 132 Col	Compuprint	L&T	Signum 2048	24 pin / 136 Col / 480 cps / Color / Network Compliant	Win (95,NT), OS/2, Mac.	95,000	#E06114
Dot-Matrix 132 Col	L&T	L&T	Paragon 36	9 pin / 136 Col / 300 cps / Network Compliant		15,950	#E06115
Dot-Matrix 132 Col	L&T	L&T	Paragon XL	9 pin / 136 Col / 300 cps / Network Compliant		15,450	#E06116
Dot-Matrix 132 Col	L&T	L&T	Tornado 600	9 pin / 136 Col / 600 cps / Dual Head		29,000	#E06117
Dot-Matrix 132 Col	L&T	L&T	32 NS	9 pin / 10 cpi / 200 cps / Network Compliant		14,000	#E06118
Dot-Matrix 132 Col	L&T	L&T	Scribe 36	9 pin / 136 Col / 240 cps		12,950	#E06119
Dot-Matrix 132 Col	L&T	L&T	32/300 Plus	9 pin / Network Compliant		14,500	#E06120
Dot-Matrix 132 Col	L&T	Odin	SW 1200	720x360 dpi / 3 ppm	Mac	21,600	#E06121
Pocket	Apple	Odin	SW 2200	720x360 dpi / 5 ppm / Color	Mac	32,000	#E06122
Pocket	Apple	Odin	SW 2400	720x360 dpi / 5 ppm / Color	Mac	36,000	#E06123
Pocket	HP	HP	DJ Portable 340	300x300 dpi / 3ppm	Win 95, Mac	15,900	#E06124
Pocket	HP	HP	DJ 200	600x300 dpi (txt) / dual colour	Win 95, OS/2	10,589	#E06125
Pocket	HP	HP	DJ 600	600x600 dpi (txt) / 600x300 (gph) / PnP / Color	Win 95, OS/2	14,500	#E06126
Pocket	HP	HP	DW 660	600x600 dpi (txt) / 600x300 (gph) / PnP / Color	OS/2,Mac	14,500	#E06127
Pocket	HP	HP	DW 660 C	600x600 dpi, (txt) / (gph)	OS/2,Mac	21,500	#E06128
Pocket	HP	HP	DJ 660 C	600x600 dpi, (txt) / (gph)	Win 95, OS/2	21,500	#E06129
Pocket	HP	HP	DJ 820 Cxi	600x600 dpi (txt) / Color / 6 ppm	Win 95	26,000	#E06130
Pocket	HP	HP	DJ 850 C	600x600dpi(txt) / 300x300dpi(gph) / 6 ppm	Mac	28,899	#E06131
Pocket	HP	HP	DJ 1600 C	600x600 dpi / 8 ppm		74,400	#E06132
Pocket	HP	HP	DJ 1600 CM	600x600 dpi / 8 ppm		1,08,500	#E06133
Pocket	Epson	Redington	Stylus 820m	720x720 dpi / 2.5 ppm / color		11,900	#E06134
Pocket	Epson	Redington	Stylus 1000	360x360 dpi / 300 cps		34,900	#E06135
Pocket	Epson	Redington	Stylus 820	720x720 dpi / color		21,700	#E06136
Pocket	Epson	Redington	Stylus IIs	720x720 dpi / color / 125 cps / Pnp	Win 95	15,900	#E06137
Pocket	Epson	Redington	Stylus II	720x720 dpi / Color		31,500	#E06138
Pocket	Epson	Redington	Stylus Pro	720x720 dpi (txt) / (gph) / 3 ppm / Color	Mac	35,900	#E06139
Pocket	Epson	Redington	Stylus Pro XL	720x720 dpi / color		1,31,000	#E06140
Pocket	Olivetti	Modi Xerox	JP 450	600x300 dpi / Color	Win 95	22,000	#E06141
Pocket	Olivetti	Modi Xerox	JP 250	300x300 dpi / 3 ppm		20,000	#E06142
Pocket	Olivetti	Modi Xerox	JP 470	5 ppm		25,500	#E06143
Pocket	Wipro	Wipro	GW IJC-80	360x360 dpi / 346 cps	Win 95	24,900	#E06144
Pocket	Wipro	Wipro	GW IJ-40	360x360 dpi / 173 cps	Win 95	15,900	#E06145
Pocket	Wipro	Wipro	GW IJC-5100	720x360 dpi / 510 cps	Win 95	23,900	#E06146
Laser Mono	Wipro	Wipro	GW IJC-310	720x360 dpi / 346 cps	Win 95	11,900	#E06147
Laser Mono	Apple	Odin	LW 4/600	N.A.	Mac	55,000	#E06148
Laser Mono	Apple	Odin	LW 4/600 PS	800 dpi / 4 ppm	Mac	57,800	#E06149
Laser Mono	Apple	Odin	LW S 360	600 dpi / 10 ppm / Network Compliant	Mac	1,14,500	#E06150
Laser Mono	Apple	Odin	LW 16/600 PS	600 dpi / 17 ppm / Network Compliant	Mac	1,64,400	#E06151
Laser Mono	HP	HP	LJ 4 +	12 ppm / 600 Dpi		94,350	#E06152
Laser Mono	HP	HP	LJ 4 M +	12 ppm / 600 Dpi		1,27,500	#E06153
Laser Mono	HP	HP	LJ 4 V	16 ppm / 600 Dpi		1,30,000	#E06154
Laser Mono	HP	HP	LJ 4 MV	16 ppm / 600 dpi		1,88,700	#E06155
Laser Mono	HP	HP	LJ5P	600x600 dpi / 6 ppm / RE / PS	Win 95	56,370	#E06156
Laser Mono	HP	HP	LJ5MP	600x600 dpi / 6ppm / Wireless printing	Win 95, Mac	64,210	#E06157

CC-0. Mumukshu Bhawan Varanasi Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

PRINTERS BUYERS GUIDE

Type	Manufacturer	Vendor	Model	Specifications	Extra drivers for	Price (Rs)
Laser Mono	HP	HP	LJ5M	600x600 dpi / 12 ppm / Network Compliant		1,16,000
Laser Mono	HP	HP	LJ5	600x600 dpi / 6 ppm / RE, PS	Win 95	85,600
Laser Mono	HP	HP	LJ 5 Si	600x600 dpi / 24 ppm / Network Compliant		1,88,800
Laser Mono	HP	HP	LJ 5 SiMx	600x600 dpi / 24 ppm / Network Compliant		2,76,000
Laser Mono	Brother	Modi Xerox	MX 6300	300x300 dpi / 6ppm / PnP, AES	Win 95, Mac	25,000
Laser Mono	Brother	Modi Xerox	MX 6600	600x600 dpi / 6ppm	Win 95, Mac	37,000
Laser Mono	Brother	Godrej	HL 631	300x300 dpi / 6 ppm		26,825
Laser Mono	Brother	Godrej	HL 660	600x600 dpi / 6 ppm		41,200
Laser Mono	Brother	Godrej	HL 1260	600x600 dpi / 12 ppm / PS		74,950
Laser Mono	Rank Xerox	Modi Xerox	Xerox 4510	600x600 dpi / Network Compliant / 10 ppm	Win (95, NT),Mac, OS/2	67,500
Laser Mono	Rank Xerox	Modi Xerox	Xerox 4520	600x600 dpi / 20 ppm	Win (95, NT),Mac, OS/2	1,60,000
Laser Mono	NEC	Digital World	SW SS 610+	6ppm / 300 dpi / PnP / RMS / Network Compliant	Win 95	28,500
Laser (LED)	TVSE	TVSE	Impress P20	300x600 dpi / 4ppm		29,995
Laser Mono	Epson	Epson	EPL 3000	N.A.		34,000
Laser Mono	Epson	Epson	EPL 9000	N.A.		1,72,000
Laser Color	NEC	Digital World	SW SS 660i	6ppm / 600 dpi / PnP / RMS / Network Compliant	Win 95	48,500
Laser Color	Apple	Odin	LW 12/600	N.A.	Mac	4,12,500
Laser Color	Apple	Odin	LW 12/600 PS	12 ppm / 600 dpi / Network Compliant	Mac	4,49,500
Laser Color	Rank Xerox	Modi Xerox	4900	1200x300 dpi / 12 ppm Media Server Kit		3,75,000

LEGEND: RMS: Remote Management Software; **AES:** Automatic Emulation Switching; **RE:** Resolution Enhancement; **TTF:** True Type Fonts; **Extra Drivers:** Drivers other than for Dos or Windows 3.x

VENDORS:

Digital World India Ltd
97, Marol Co-op Industrial Estate
Andheri Kurla Road,
Andheri East, Mumbai 400 059
Tel: 022-8385686
Fax: 022-8381074

Godrej Trading & Services Co Ltd
Plant 19A, Pirojshanagar,
Vikhroli, Mumbai 400 079
Tel: 022-5174460
Fax: 022-5170415

Hewlett-Packard
24, Paharpur Business Centre,
Nehru Place, New Delhi 110019
Tel: 011-6472311
Fax: 011-6461117

Larsen & Toubro Ltd
8th Floor, Venkatramana Centre,
563, Anna Salai,
Teynamper, Madras 600 018
Tel: 044-4343309
Fax: 044-4342639

Modi Xerox Limited
809, Hemkunt Tower
98, Nehru Place, New Delhi 110 019
Tel: 011-6434544
Fax: 011-6225832

Odin Computers
A-16 Aruna Asaf Ali Marg,
Quatab Institutional Area,
New Delhi 110 067
Tel: 011-6856701
Fax: 011-6863306

Redington India Pvt Ltd
SPL Guindy House,
95, Mount Road, Madras 600 032
Tel: 044-2353313/4/5
Fax: 044-235 2790

Sandur Electronics
86/B, Industrial Suburb,
Yeshwantpura, Bangalore 560 001
Tel: 080-3379981

Transmatic Systems Ltd
30/1, SJ Towers,
Mission Road, Bangalore 560 027
Tel: 011-2220619

TVS Electronics
10-B, Phase I,
Peenya Industrial Area, Bangalore 560
Tel: 080-8395000
Fax: 080-8396334

Wipro Infotech
88, MG Road, Bangalore 560 090
Tel: 080-211141
Fax: 080-2270378

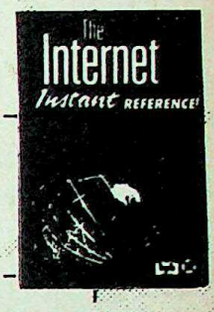
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Exploring the Internet

INTERNET ROAD MAP: *Internet brings the world to your computer This book shows how. The updated version features informed discussion, firstly, to help you make the Internet connection. Then gives you reliable directions for logging-in, sending and receiving 'e-mail' up / down load files, use Equinox, Usenet, FTP and Telnet. You can also get expert advise in which Internet features best to explore .*

Rs. 75/-



INTERNET INSTANT REFERENCE *: Look here for answer capsule to all your queries about the Net. Its culture, commands, tools and resources. A to Z entries deal with everything from abbreviation to Java to 'zines. And features the latest on the World Wide Web, Java, and other emerging technologies.*

Rs. 75/-

EZ INTERNET TUTOR-CD *: Your multimedia guided tour of the Net possibilities. The easy to learn Tutorials are backed by step-by-step audio and video multimedia & covers everything from etiquette to terminology. From interesting locations to software options and everything in between. This multimedia guide is, infact, better than a personal tutor.*

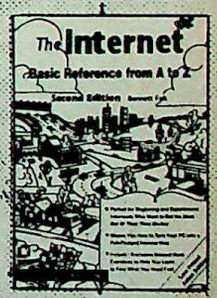
Rs. 499/-

THE INTERNET TOOLKIT *: Navigating the Internet can be easy when you know the right directions. This easy to understand book shows the way to best utilities, freeware and shareware for the needs of specific Internet users. Discover how to use online utilities like Ping and Finger, and choose best encoders compression utilities and viewers.*

Rs. 150/-

SURFING THE INTERNET WITH NETSCAPES *: This easy-to-read, easy-to-use comprehensive guide lets you grab and use the world's latest and most popular Web Browser viz. Navigator 2. That takes Internet interactivity to new dimensions. This guide shows you how to download the software, use it and view the best of the Worldwide Web. And you can surf savvy with the "Whats Out There Disk" which will deepen and add a new dimension to your Internet experience.*

Rs. 150/-

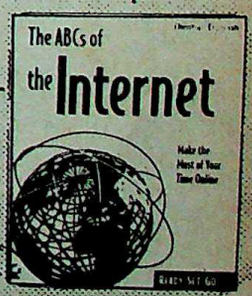


THE INTERNET BASIC REFERENCE FROM A-Z *: Beginning from the first step of getting connected, this will illuminate every step of your way to Internet expertise. Giving you step-by-step directions for logging-in, downloading files, using e-mail and more. You will also learn to use Gopher, the World Wide Web, and USENET News, Internet's huge global bulletin board. Even if you're a beginner you can learn to harness the full power of the Internet.*

Rs. 180/-

MASTERING THE INTERNET *: Its your complete guide for tapping the power of the Internet. By accessing information and putting it on the Net. Everything from basic security etiquettes to downloading multimedia files and servers are covered. Even first time user can search effectively by using the search tools described and use e-mail, Internet et al. The* ***accompanying CD*** *contains Net Cruiser - the integral Internet Toolkit, Internet Assistant and Internet Explorer.*

Rs. 450/-



ABCs OF THE INTERNET *: A trade oriented guide for using Internet's most practical features. For getting most of your on-line time, everytime. Learn the basic techniques, browse the World Wide Web, communicate with others, explore other Internet features and create your home pages after reading this book. Each chapter offers general information, followed by specific details and tips for using the most popular features.*

Rs. 90/-

BPB PUBLICATIONS

Asia's Largest Publishers of Computer & Electronics Books

B-14, Connaught Place, New Delhi-110 001. Fax : 335 1856, 326 6427

*** Ahmedabad** - 642 1611 *** Bangalore** - 5587923, 558 4641 *** Bombay** - 282 8296, 282 8297

*** Calcutta** - 242 6518, 242 6519 *** Chandigarh** : 56 1613, 56 7538 *** Hyderabad** - 512280 *** Madras** - 83 4796, 855 0491

*** New Delhi** - 332 5760, 372 3393, 325 4990, 326 7741, 643 8245, 641 5092 *** Noida** - 853 1346

CC-0. In Public Domain. Sarabhai Kanch Collection, Haridwar

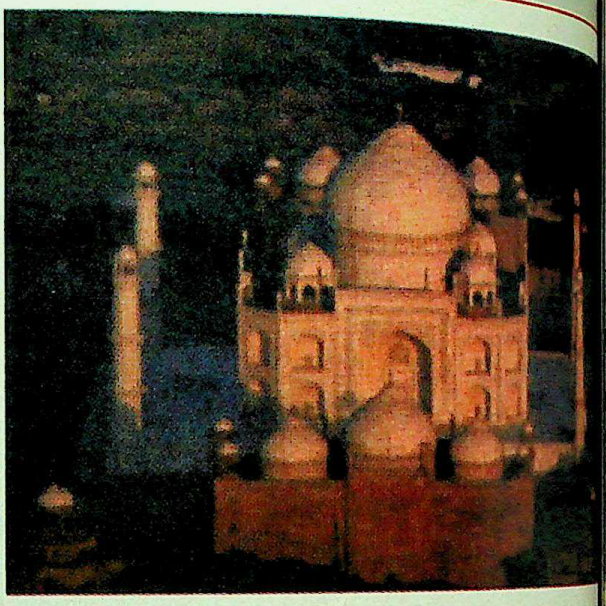
Digitized by Arya Samaj Foundation Chennai and eGangotri

Taj Mahal... A Lithic Poem

A less-than-interactive package, meant for visitors to India

CD ROM

Taj Mahal...A Lithic Poem for Windows 3.1 or higher. Kirloskar Computer Services Publications. Rs 999. RQS No Exp...
This CD-ROM gives a brief overview of history and architecture of the Taj with photographs. Little information travel or lodgings is provided. Prices US currency, for the overseas market



This CD-ROM for Windows 3.1 or higher is labelled "an interactive CD ROM", but we didn't find it very interactive except for clicking the forward and backward arrows.

This CD-ROM is divided into five modules: **History, Architecture, Aesthetics, Travel** and a **Photo Gallery** of the Taj. Any module can be accessed from icons that appear in almost all the screens. But there is a lack of continuity from one module to the next. Navigating within a module is either forwards or backwards, and a map icon shows how the CD-ROM is organised.

The module on **Aesthetics** is well presented, with detailed descriptions and beautiful photographs of art and design details. The **Architecture** module describes the site, as well as the various parts of the Taj. There are also details of the plan and elevation.

The **Travel** module could have done with a little more detail. It only gives information on how to get to Agra by air, rail, or bus from Delhi. Instead of providing departure timings that often change, it would have been more helpful if the distance and time taken to reach Agra from different places was g... Also, the hotel room rates listed (in US dollars) will be outdated very fast.

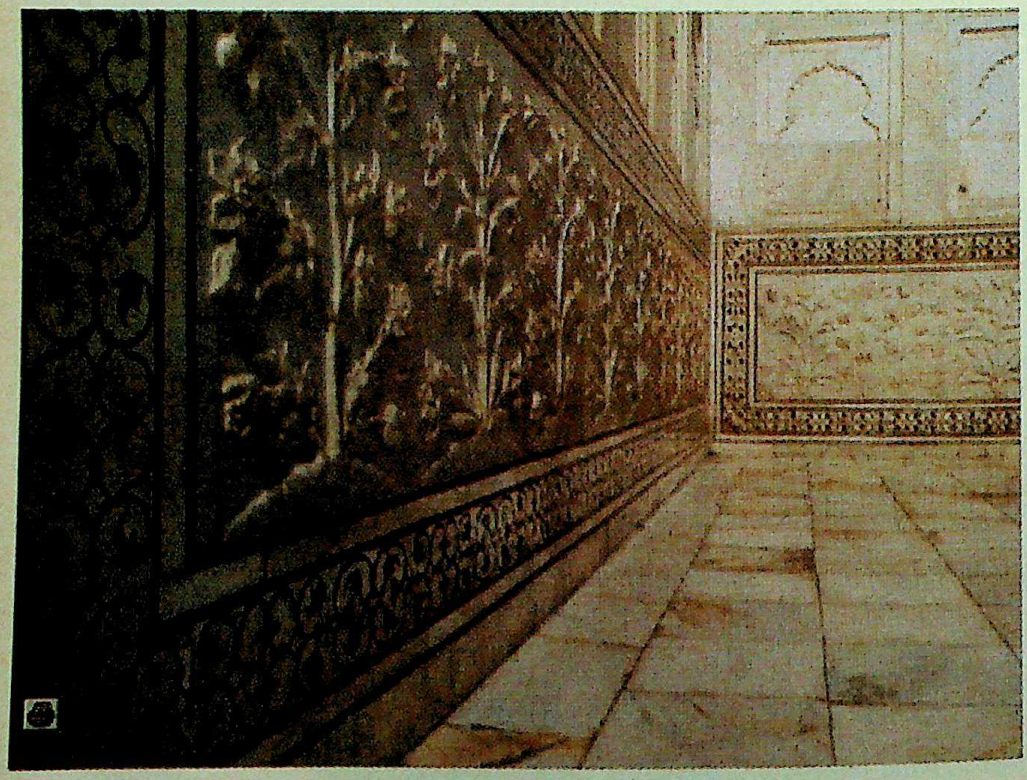
The **Photo Gallery** has been divid... five sub-modules each with 24 visuals... fortunately, these lack both captions... brief descriptions.

The screens are organised fairly... tently, with a marble background. The... on the left within a scroll, with a... photograph on the right. To view m... tailed images, just click the hot-links... the text, or the arrows below the photo... displayed.

If you choose not to click on either... possible to run through the entire CD... without seeing fully-detailed images... ing on any image gives a full screen v... click the Printer icon for hard copy. T... a speaker icon to read out text displ...

The only animation sequence is ab... its Also, some of the clips don't seem... related with their indicated hot-link. O... the CD-ROM provides some informat... photographs, but it could have been... cantly more useful.

Anil Chopra



The CD-ROM is packed with photographs, taken at various times of the day and of varied design and architectural detail

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

bpb multimedia presents an amazing array of CD-ROM titles from DK

Dorling Kindersley

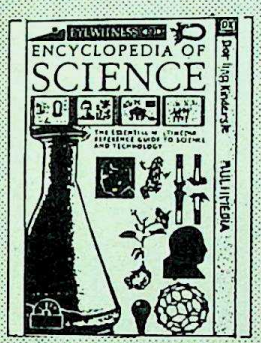
DK's Impressive collection of CD-ROMs go from strength, winning awards and critical acclaim wherever they appear. The latest stunning titles, presented here, look set to carry on DK's unbeatable combination of excellence and innovation.

Encyclopedia Of Nature

A highly visual, interactive encyclopedia that will take you on an exhilerating journey through the world of nature, to explore the fascinating lives of hundreds of species of animals & plants and the habitats in which they live.

The Way Things Work

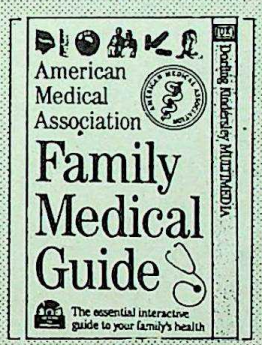
In this CD-Rom, featuring outstanding animation and audio, Macaulay's unique and fascinating introduction to the world of science and technology truely comes alive. The machines he draws actually function and you can see, hear for yourself how things really work.



Encyclopedia Of Science

This CD-Rom provides an invaluable base of general scientific knowledge and an insight into the increasingly technical world in which we live.

Family Medical Guide



Based on the newly revised book, the American Medical Association, Family Medical Guide CD-Rom brings this best selling family medical reference into the 90's. Easy to understand explanations of more than 650 diseases and disorders, practical advice about preventive health-care, uptodate discussion of timely health issues- this CD-Rom has all the information you need to make better health-care decisions for your whole family.

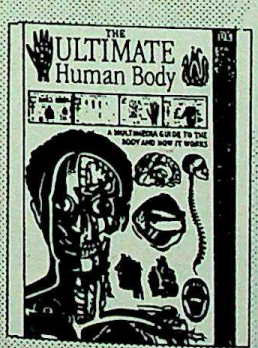
My First Incredible Amazing Dictionary

This is an interactive introduction to 1000 words and their meanings. Packed with sounds and animations, it is a journey of discovery where every click of the mouse reveals a new surprise.

Also :
P.B. BEAR'S BIRTHDAY PARTY FOR WINDOWS
AMERICAN HERITAGE CHILDREN'S DICTIONARY
STOWAWAY ! FOR WINDOWS
BIRD FOR WINDOWS
CAT FOR WINDOWS

The Ultimate Human Body

With this you can look beneath your skin, take a guided tour of the structure, system and organs of your body & learn about every single part. Where it is found, what it does. How it works.



macintosh editions available seperately

OEM / DEALERS / DISTRIBUTOR ENQUIRIES SOLICITED

bpb multimedia

Exclusive Distributors :

BPB MULTIMEDIA
Munish Plaza, 20, Daryaganj,
New Delhi - 2. Ph.: 327 2329,
326 7741 Fax : (011)-3266427

Available at :

BPB PUBLICATIONS
B-14, Connaught Place,
New Delhi-1. Ph.: 332 5761, 332 5760

INFOTECH
G-2, Sidharth Bldg. Nehru Place,
New Delhi -19Ph.: 6415092,6436245

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

NOSHE OCEANIC

Digitized by Arya Samaj Foundation Chennai and eGangotri

Yoga For All

CD ROM

Yoga for All. Runs on Windows 3.1. Rs [illegible] Kirloskar Computer Services. BPE [illegible] cations. RQS No #E0632
Clinically detailed and precise yoga g[illegible] audio-visual instruction.

An interactive guide for health and fitness from Yogacharya BKS Iyengar

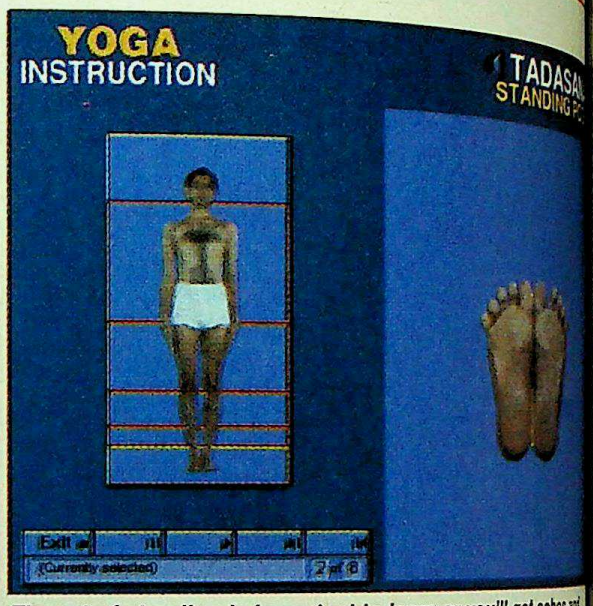
If you think the man in the picture is just standing there, you're wrong. He's following a set of 30 instructions to perform the Tadasana. The art of standing is explained in precise anatomical detail by Dr Geeta Iyengar, daughter and pupil of Yogacharya BKS Iyengar.

The asanas that make up this interactive yoga guide are grouped according to action—standing, sitting, forward bends, back bends, twisting, inversions and supine. To learn all of them, you will hear 2,000 instructions telling you about focus and awareness points. Together, the 23 asanas (along with over 20 minutes of video, four hours of audio and 1000 images superimposed with animations describing each of them in detail) are meant to be an adequate routine for health and fitness.

You can view each asana in its group through an asana interface that begins by giving you the benefits and precautions associated with each of them. There are preliminary instructions, duration and release information, and then a video module with instructions and narration by Dr Iyengar.

For these instructions, the body is divided into focal segments and you can select each of them for precise details about the position. The exact role of specific body parts, that of the heel while standing, for instance, is described.

Unfortunately, the sound recordings that accompany the videos are not very clear with barely audible end-of-sentences.



The art of standing is important to learn or you'll get aches and pains, and scatter energy

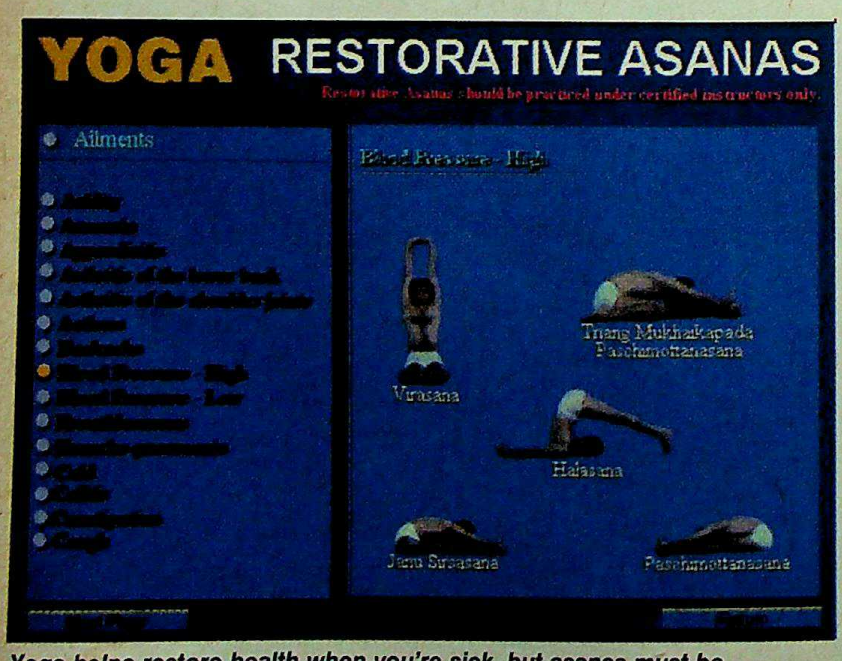
Now is there a written parallel text for the instructions videos too are slow. Despite a mathematically-precise face, moving through the guide is sluggish and you find yo waiting for your cursor to revert from a lotus to an arrow and again.

The Yoga Class module allows you to view two d classes created by the Yogacharya for adults and chi Besides these, you can also create a customizable cl selecting the asanas you're most comfortable with.

The section on Restorative Asanas contains an a betical list of 30 health problems and asanas indicat them. These include 23 featured in the lessons, bu unfortunately not cross-linked to them. The author however say that restorative asanas should only be under certified instruction.

Yoga is a complete mind and body approach to spirituality. To many, the instructions on Hatha Yog seem excessively clinical and physical, and not sens focused enough on the mental and spiritual. Yogacharya's introductions are brief and dwell upon Yoga's philosophy. If you're looking to Yoga physical discipline, you may find this guide useful though you must be fairly determined and prepared hours of rapid-fire, no-nonsense instruction.

Mala Bhargava



Yoga helps restore health when you're sick, but asanas must be practiced under supervision

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

WE REPAIR

CD-ROM DRIVES
HARD DISKS
LASER PRINTERS
PENTIUM/486/386
NOTEBOOKS/DRIVES
PRINTERS/SMPS

INDIA'S PIONEERING REPAIR LAB FOR
CD-ROM COMPACT disc DATA STORAGE
NOTEBOOK COMPUTERS
Micro Dot

Microdot -- The Repair Lab

Micro Dot provides full component level repair facilities for systems and peripherals.

Original spares and components are available for all leading brands. Our expert engineers diagnose and repair quickly, efficiently and inexpensively.

Micro Dot now announces a new first. . . CD-ROM drive repairs. . . for the first time in India. And now Micro Dot can also service and repair notebook computers.

Micro Dot Systems Pvt Ltd

G-103 KALKAJI, NEW DELHI - 110 019, TEL: 621 3724, 622 9343, FAX: 622 9342

THE REPAIR LAB

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

A.D.A.M. The Nine Month Miracle

EDITOR'S CHOICE · PC QUEST · 1996

A dignified and reassuring guide to pregnancy for the whole family

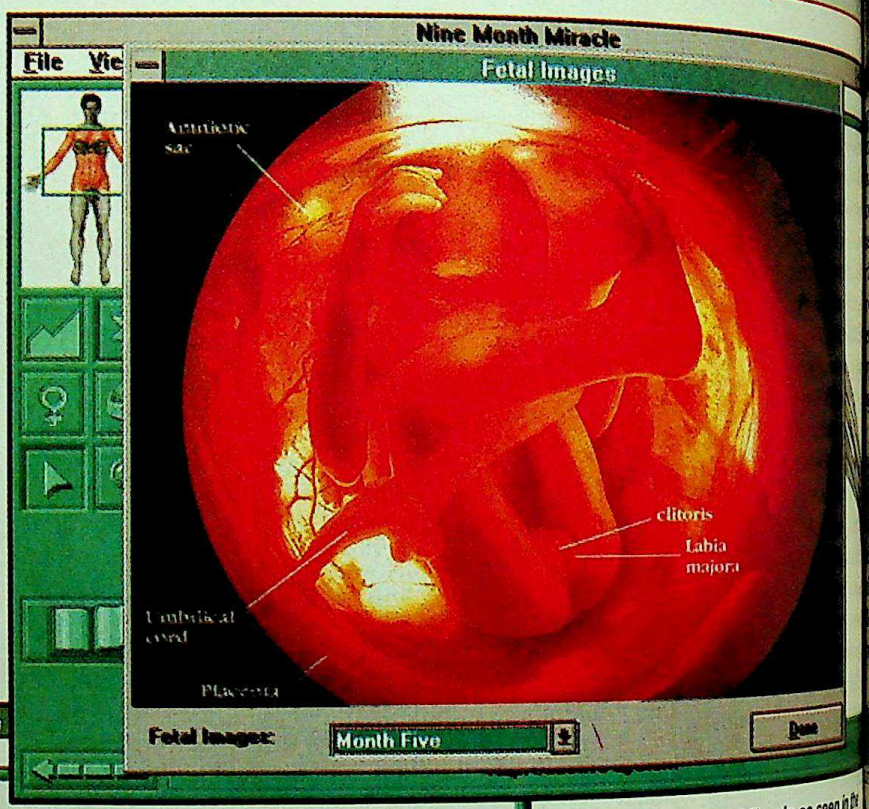
CD ROM

A.D.A.M. The Nine Month Miracle Pentium, Windows. A.D.A.M. Software Inc. Lan... timedia. Rs 2,995. RQS #E0627

A family guide to pregnancy for a couple... paring to welcome a new baby. videos, animated sequences and ... take you through nine months of ... nancy.

Adam and Eve—with or without their fig leaves—guide the whole family through the journey that is the Nine Month Miracle. But first, some anatomical matters. The anatomy section is simple and gives you the option of different views including a closer look with a magnifying glass. You can learn about the main parts of the reproductive system of both Adam and Eve. You can also be politically correct and change the skin tones in the pictures.

Look through Adam and Eve's Family Album to follow the pregnancy from pre-conception to delivery. By clicking the pictures in the album you can see animations of the process of egg fertilisation, learn about the fascinating process of cell division and differentiation and see how

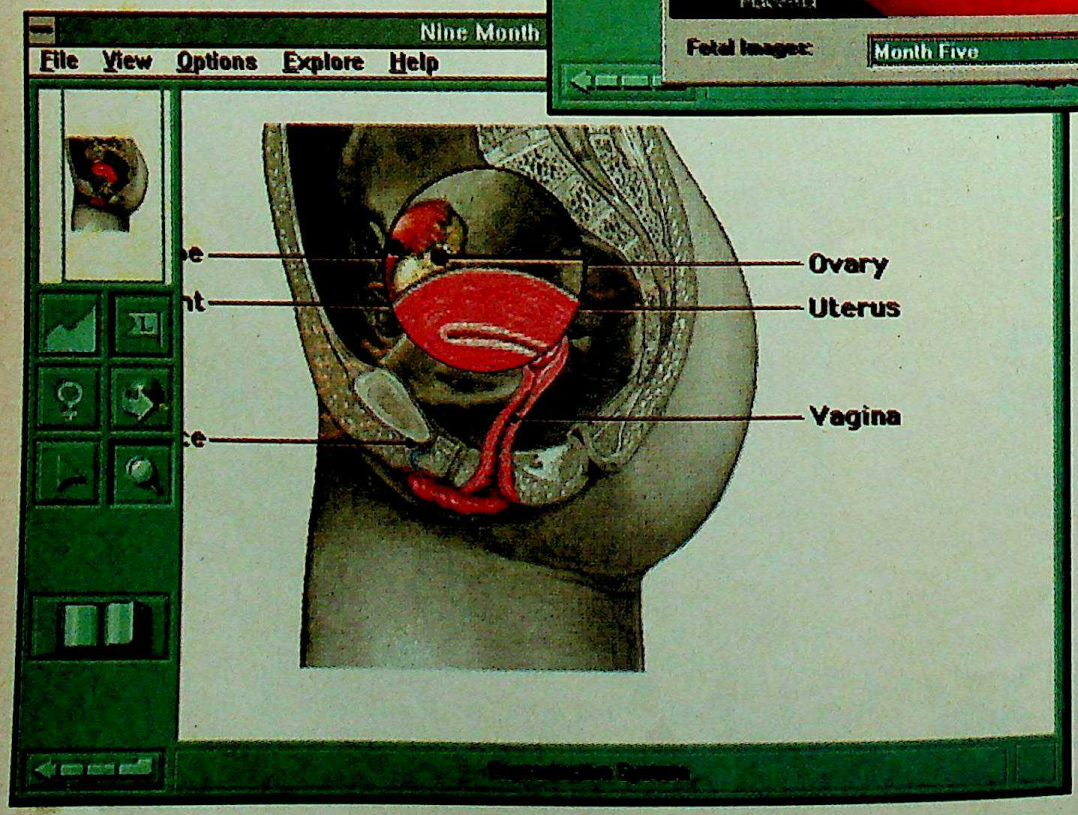


Month five of the Miracle as seen in the fetal images in Eve's Virtual Uterus

the baby develops. You can take a look with the guided tour in the 3000, or Eve's Virtual Uterus. In the module, Eve's doctor explains the development and what to expect through each stage of pregnancy can also see clear fetal images of growing.

Back in the Family Album, learn how Eve's baby develops centa, a functioning heart, and a tional support system. Find out morning sickness striking in the of the afternoon and see videos of ing exercises with the Nine Club'. Many of the concerns during pregnancy are taken

(Continued on page



A brief anatomy lesson on the reproductive systems of both Adam and Eve

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The Total Heart

A complete and well-presented guide for a heart-healthy life

CD ROM

The Total Heart. Runs on Windows 3.1 or higher. RQS #E0628

A truly total and well-made guide to understand the working of the heart, both in health and in disease. It addresses the general public, and is specially useful for anyone at high risk for heart disease.

Mayo Clinic's Family Health Series. Rs 2,995 (set of 4 CD-ROMs). IVI Publishing. Lan Multimedia.

The Total Heart from the Mayo Clinic explores our heart when healthy and when diseased. For a general understanding of the heart and its function, browse this CD-ROM from beginning to end. The Anatomy section has crisp animated and narrated illustrations in color, along with embedded video clips of the working of the heart and its valves. You can also see animations of surgical procedures such as the use of defibrillators, putting in pacemakers, bypass surgery, transplants, and placing artificial valves.

The text is well supplemented with pop-up boxes for related topics. There are links to the Anatomy section for reference, and to information on associated diseases and treatment issues. The information is carefully cross-linked to allow you to fully explore the topic you are looking at.

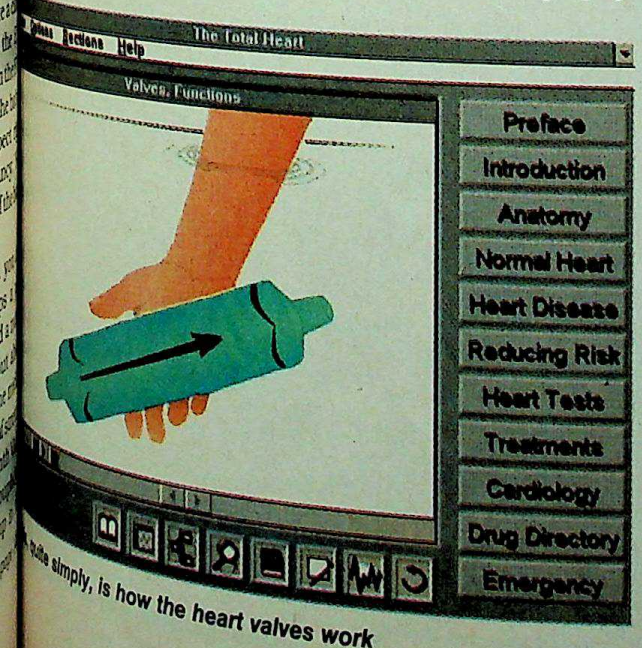
This detailed study of the heart begins with the location of the myocardium, its structure, and cells. The myocardium's function, as it pumps and double pumps is described thoroughly. The heart's valves are next, again illustrated with animations and pictures. The coronary blood vessels—the fuel lines of our bodies—and the conduction system and its working are explained. The arteries and veins and the pericardium are detailed as well.

The Heart Disease section is quite thorough, beginning by telling you what a symptom is and exploring the various early warning signs associated with heart diseases. Types of heart disease—congenital, defects of valves, coronary blockages, diseases of the arteries and veins, and pericardial diseases—are outlined along with related topics. Cardiac risks are dealt with in a separate section and include both avoidable and unavoidable risks, their effects and interactions and recommendations for a heart-healthy life style.

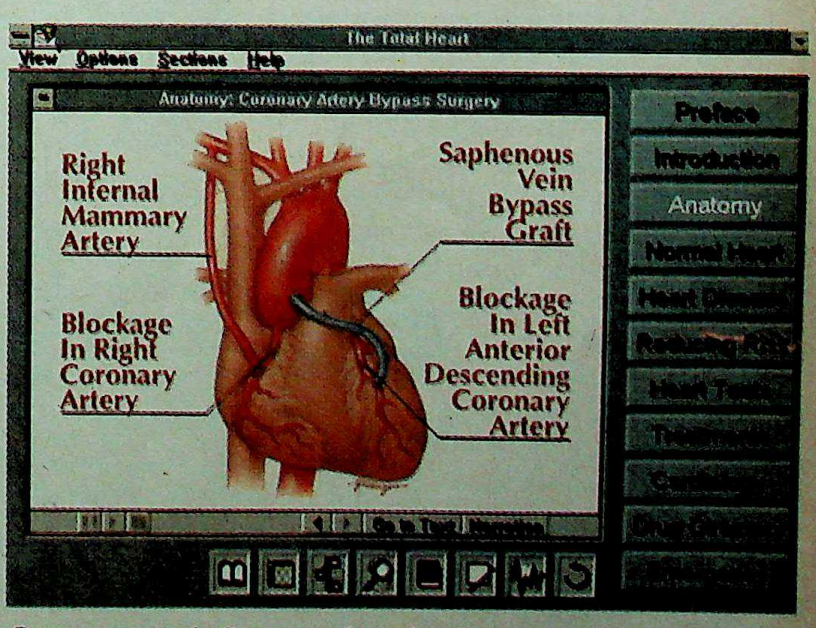
Tests used to diagnose heart disease are featured in a section that begins with medical history and physical examination and then goes on to cover the entire range of tests from blood tests through echocardiography and angiography to non-invasive tests. Special tests that visualise the heart such as MRI and CT Scan are also discussed. There is also information on dealing with specialists and getting second opinions.

Cardiac emergencies and diseases are of many types and all of these require different treatment measures. The Treatment and the Emergency sections are particularly useful parts of this CD-ROM since they arm you with the information you need to minimise damage and cope with problems in the best way possible. Many forms of treatment are described here, including information on what to expect before, during and after surgery. An emergency chart quickly helps you identify symptoms and tells you what action to take in case of a problem. There is also a section on Cardiology issues that deals with common questions such as whether alcohol is good for heart

(Continued on page 126)



...quite simply, is how the heart valves work

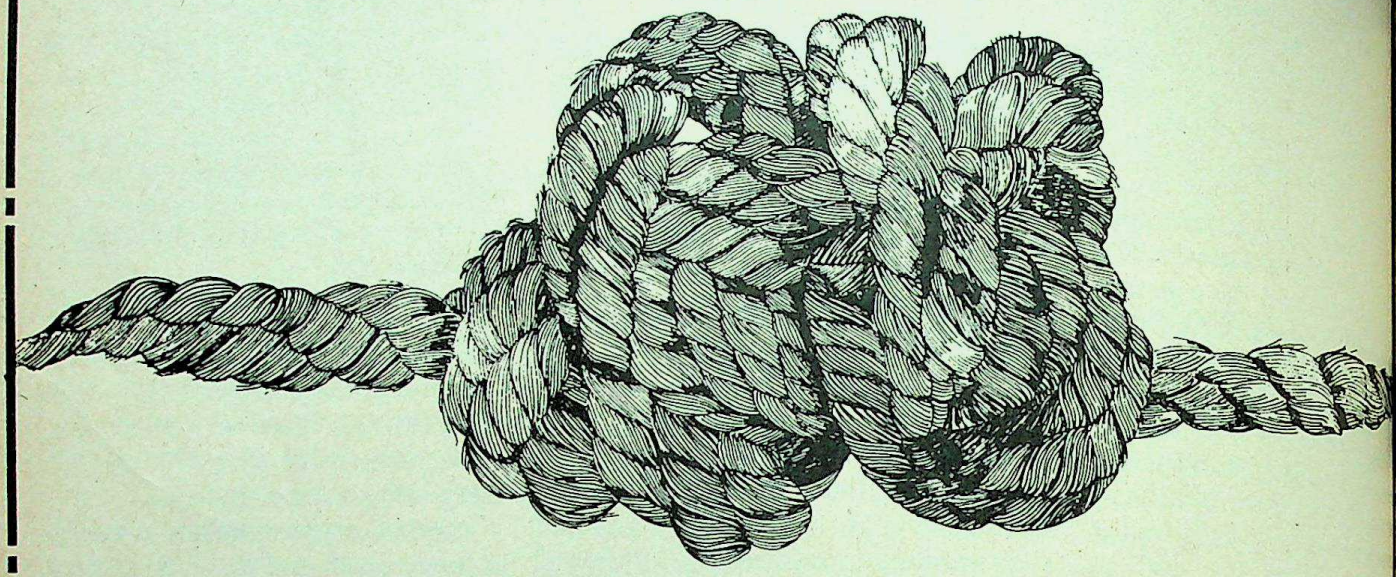


Bypass surgery isn't as complicated as it sounds

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

When Financial Accounts get knotted up



...Some

(a) Waste manual hours trying to unknot
(b) Cry for help.
(c) Runaway,
✓(d) Get smart and call for 'Easy'

EASY ...

(Instant Financial Accounting Software)
the package that likes to solve your
financial puzzles.

Regd Office:
SUPPORT SYSTEMS PVT. LTD.
353,Marshall House, 33/1, Netaji Subhas Road.
Calcutta - 700 001, Phone : 220-4199/6529/6487/5451,Fax : 91(033)4734544

Distributor,Calcutta-Ph.:2423244/6401/9643, Delhi-Ph.:5767210/5745596,
Bombay-Ph.:8220486, Patna-Ph. : 237969 Lucknow-Ph. : 268261, Guwahati-Ph. : 523060

DEALERSHIP ENQUIRY SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Family Health Book

CD ROM

Family Health Book. Runs on Windows 3.1 and 95. RQS No E0629

This simple health guide is meant for families, and contains informative illustrations and animated sequences. There is a special focus in each section on children.

Part of the Mayo Clinic's Family Health Series.

See Pg 123 for more details

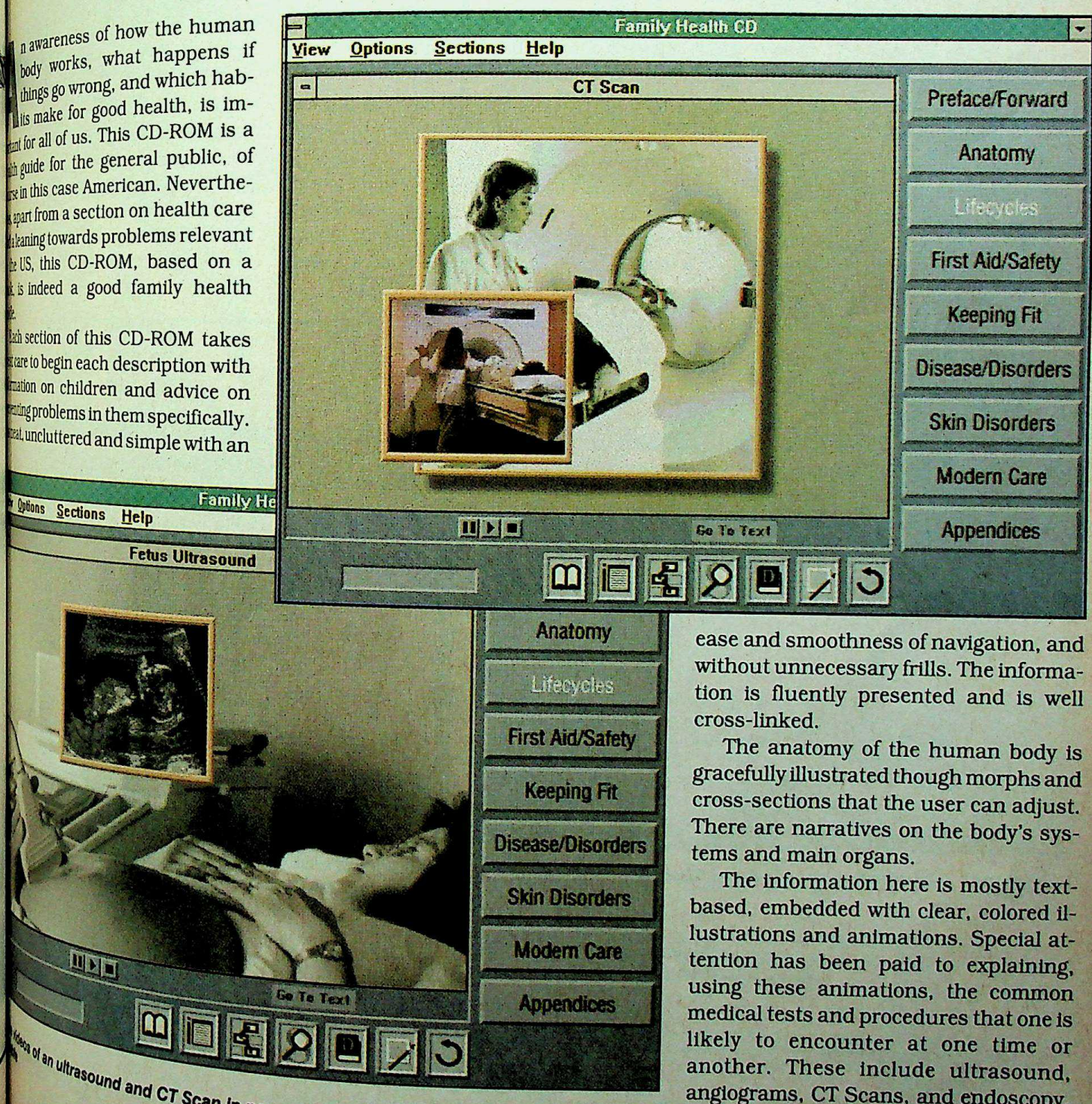
A general health guide with a special focus on preventing problems in children

n awareness of how the human body works, what happens if things go wrong, and which habits make for good health, is important for all of us. This CD-ROM is a health guide for the general public, of course in this case American. Nevertheless, apart from a section on health care with a leaning towards problems relevant to the US, this CD-ROM, based on a book, is indeed a good family health guide.

Each section of this CD-ROM takes great care to begin each description with information on children and advice on preventing problems in them specifically. Neat, uncluttered and simple with an ease and smoothness of navigation, and without unnecessary frills. The information is fluently presented and is well cross-linked.

The anatomy of the human body is gracefully illustrated though morphs and cross-sections that the user can adjust. There are narratives on the body's systems and main organs.

The information here is mostly text-based, embedded with clear, colored illustrations and animations. Special attention has been paid to explaining, using these animations, the common medical tests and procedures that one is likely to encounter at one time or another. These include ultrasound, angiograms, CT Scans, and endoscopy. The brisk, matter-of-fact descriptions that accompany these procedures



Videos of an ultrasound and CT Scan in progress are just some of different medical tests

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

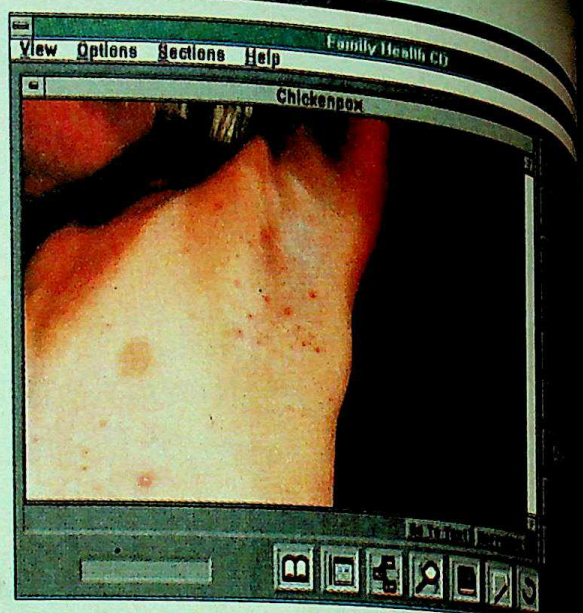
however don't necessarily tell you what to expect.

If you are planning on parenthood, or if you want to understand more about normal changes you might encounter in your children, your parents, or yourself, Lifecycles is the section to look at.. Starting from the new-born, separate chapters address each stage of life from infancy, through pre-school, teenage, young adulthood, the middle years and later life. Pop-up definitions and items of information or illustrations supplement the text.

A First Aid And Safety section takes up different medical emergencies and gives instructions on what to do, including animations of cardiac massage and the Heimlich Manoeuvre (to relieve choking). The environment and travel, and their health implications are also featured in this section.

Sound advice on nutrition, exercise, tooth care, controlling stress, tobacco and alcohol abuse, medications and drug abuse can be found in the Keeping Fit section.

An index of disorders and diseases teaches you about medical problems, both minor and serious. The information here is factual and concise. Common skin disorders, beginning from birth and infancy to old age, for some reason have a separate set of chapters in a photographic guide. The clear photographs here are really useful in identifying skin disorders in the home and seeing to their treatment.

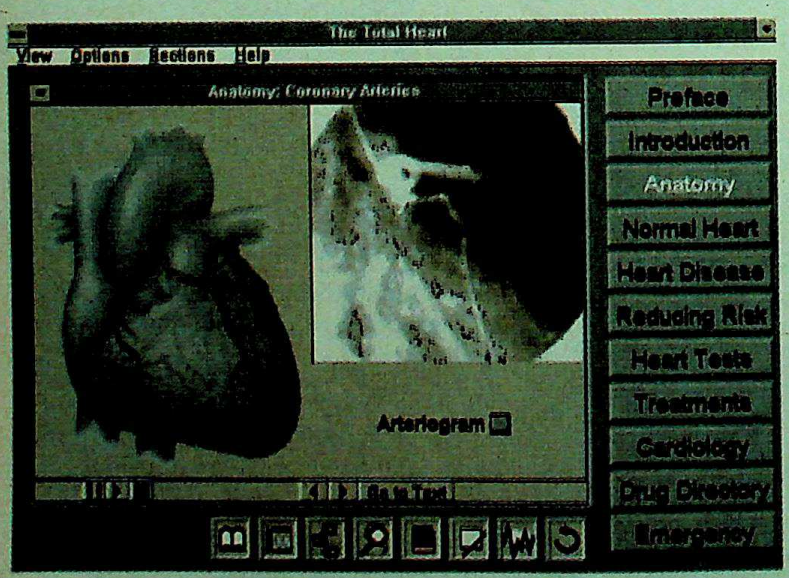


Chicken pox can be identified by red boils, filled with a clear [illegible] that break out all over the body before bursting

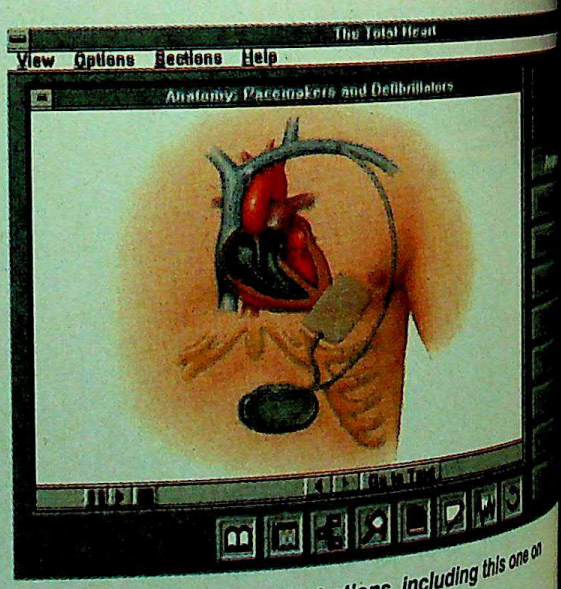
The Modern Care section is the least relevant, based as it is on US health care, and the system and programs are markedly different from those in India. Nevertheless, there are tips in this section. Cancer and care at home [illegible] special focus. There is a drug [illegible] for a quick reference although [illegible] branded drug names may not be [illegible] India.

Mala Bhargava for PC Q[illegible]

(Continued from page 123)



This animated arteriogram is one of several illustrating various tests



There are lots of simple illustrations, including this one on Defibrillation and pacemaker placement

patients, should all palpitations be treated, is fish oil of any help and so on. There is a drug directory in which you can look up heart disease drugs either by name or by their association with symptoms.

This CD-ROM is simple, tidy and matter of fact. This is multimedia with definite intent to inform and it appropriately lacks gimmickry. And as for information, this disk cannot be argued with. Although it does not directly address the medical professional, it is nevertheless useful as a guide for patients or for teaching. The general public, whom the CD-ROM does address, will find the subject comprehensively, tastefully and [illegible] fully discusses. Heart disease [illegible] common as it is, there are few people [illegible] would not benefit from knowing [illegible] heart works and what can be done [illegible] it is in trouble.

Mala Bhargava for PC [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

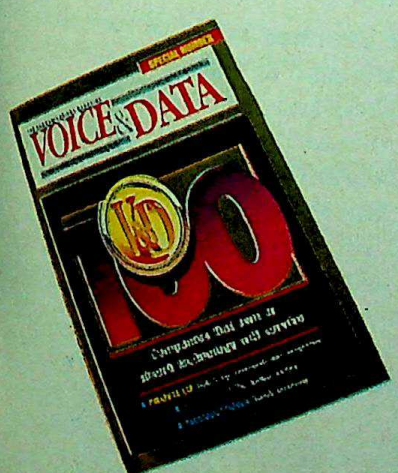
Digitized by Arya Samaj Foundation Chennai and eGangotri

THE COMMUNICATIONS MAGAZINE

VOICE & DATA 100

is back again

And why NOT!



Because you need the complete perspective.
Industry trends. Where the industry is headed. Where technology is headed. Facts. And the reasons behind those facts.

Because you need the unbiased perspective.
Special segment wise analyses. The Top 100 companies today. And another 150 who are steadily edging their way up.

And because now the industry expects it. Out of us.
(And, frankly, why not?)

VOICE & DATA 100 WILL HIT THE STANDS THIS AUGUST.

WORD OF CAUTION !

Remember what happened last year. Copies of V &D 100 (1995) disappeared from the newsstands as soon as they hit the market! And going by the way the industry awaits this issue, these too will have disappeared if you are not fast enough to pick your own copy.

SO BOOK YOUR COPY AT THE NEWSSTAND NEAREST YOU. *TODAY!*

And why NOT?

ANDY DIRECT/CM/114

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE COMMUNICATIONS MAGAZINE

VOICE & DATA 100

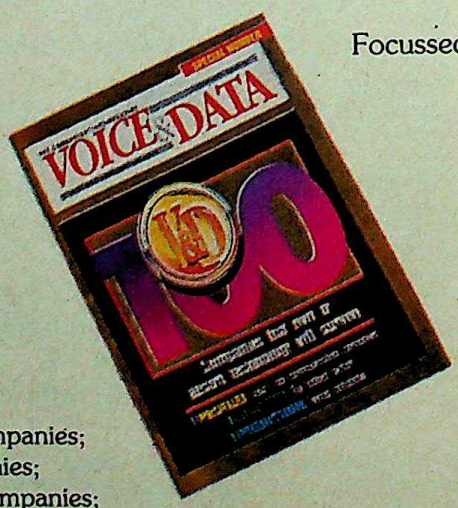
is back aga

with its uniqu

advertisi

OPPORTUNI

And why NOT!



Because it reaches lakhs of focussed readers.
Focussed readership estimated at nearly 200,000 for this issue.
Including the thousands who make purchase decisions.
And the thousands who influence these decisions.
A reach that is national. And international.

Because it has a shelf life of 1 year.
The V&D 100 is referred repeatedly during its one
year shelf life. Because its editorial values
are highly rated by the industry &
corporate users.

And because the only other way to reach out
to so many at such a low cost is
by waiting for the next issue of V&D 100.

The VOICE & DATA 100
THIS AUGUST

The 1996 issue of V&D 100 will specially focus on:
Companies in Basic Services,
Cellulars & Paging;
Networking Companies;
Communication software companies;
Electronic messaging companies;
VSAT & VSAT equipment companies;
Office communication equipment companies among others.

A WORD OF CAUTION !

This too happened last year. Many interested advertisers could not be accomodated as space got all sold out fast. And going by the way the industry awaits this issue, advertising space is limited. **SO BOOK YOUR SPACE TODAY** by contacting any of the following: **DELHI** RACHNA: PH. 6416315, 6476664 FAX. 6411692; **BANGALORE** BHAUMIK: PH. 2861511, 2868238 FAX. 2862971; **MUMBAI** CHANDAN: PH. 6427910, 6450050/51 FAX. 6403986; **MADRAS** ANIL: PH. 459498 FAX. 8252828; **HYDERABAD** KRISHNA: PH. 848121 FAX. 816960; **CALCUTTA** PARTHA: PH. 2471285, 406492 FAX. 2408423.

And why NOT!

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Sports Health And Fitness

CD ROM

Sports Health and Fitness. Runs on Windows 3.1 or higher. RQS #E0630

This complete sports and exercise guide is meant for those seriously planning a fitness program. There are lots of video clips (.AVI) containing instructions on the how to proceed, as well as anecdotes from athletes such as Jimmy Connors and Gail Devers.

Part of the Mayo Clinic's Family Health Series.

See Pg 123 for more details

A comprehensive, serious guide for physical and sport fitness

ake sure that your system has more than 8 MB RAM if you want this CD-ROM to work with any degree of health and fit-. Otherwise you could well find your- with more than enough time to do ises between video frames. This is, rse, because the CD-ROM has quite ber of video clips (.AVI) that can derably degrade performance.

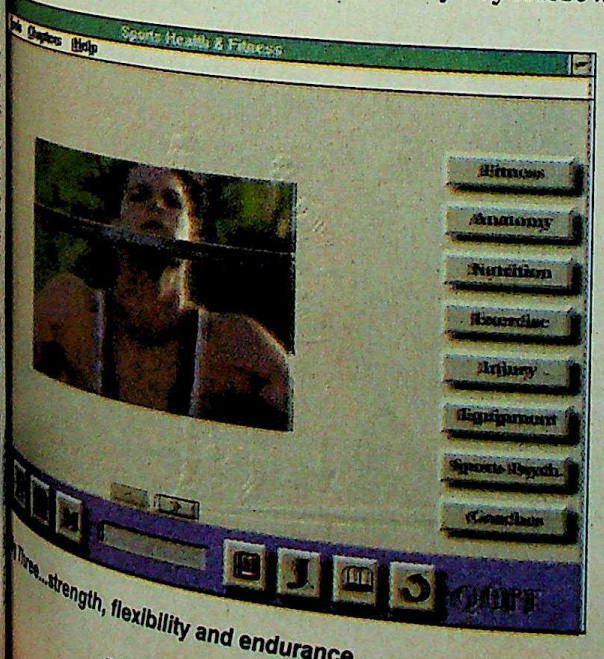
you're finally thinking of getting to some serious exercise, start the survey on this CD-ROM and let ersonal Trainer ask you questions your health history, nutrition and de and test your endurance, gth, and flexibility. The results of tests will then help generate a fit- program for you. You can monitor ress through the exercise program a journal.

This CD-ROM from Mayo Clinic offers information, advice and instructions to help you make fitness decisions and implement them. It apparently takes two weeks of exercise to begin improving your general fitness level but only two days of inactivity to begin losing your endurance. You can learn about general fitness and the difference it can make to you and your entire lifestyle in the Fitness section. Start by studying the blueprint of the human body in the Anatomy guide.

It is good nutrition that provides the fuel for exercise and you can learn about what makes good nutrition and all the good it does to your body in the Nutrition menu. You can also use the Food Guide Pyramid for a diet program. Diet details have information on proteins, fats, minerals, carbohydrates, vitamins and the healthy way to lose weight—or gain weight, if that is what you need. Special nutritional concerns for children, adolescents, women, and older adults are taken up along with some common eating disorders such as anorexia nervosa and bulimia—not as common in India as they are in the US.

The Exercise section is exhaustive and includes total fitness training. How to get started, warm ups, the importance of frequency, duration and intensity in exercise, the three components of exercise—endurance, flexibility and strength—and how to build them up through aerobics, flexibility tips and stretching exercises, muscle and strength building and weight training are all featured along with instructional videos. Speciality training and sports enhance

(Continued on page 131)



Three...strength, flexibility and endurance.

The right sports gear is important to exercise.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Family Pharmacist

A complete reference on medication with US drug listings

CD ROM

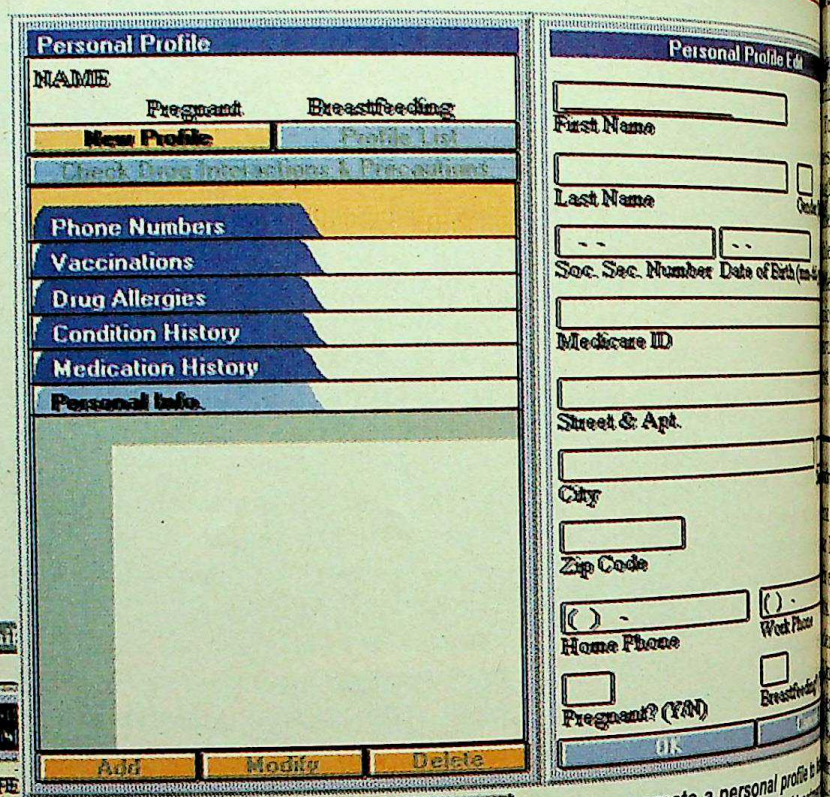
Family Pharmacist. Runs on Windows higher. RQS #E0631
This guide to safe medication has useful eral information on taking medication a good first aid and injuries section. are lots of animated sequences and clips, as well as a Phonetic Medicine. However, medicine section contains US brand names.
Part of the Mayo Clinic's Family Health
See Pg 123 for more details

There are many conditions under which special care must be taken before taking medication. But what are these? Lots of people store medicines in the bathroom cabinet....but is this safe? And did you know that a full glass of water is better when swallowing tablets? There are proper methods of taking medicines, whether they are tablets, inhalers, eye, ear or nose drops, suppositories, creams, ointments and patches. But does it really make a difference? Yes it does, and these are exactly the type of questions answered on the Family Pharmacist CD-ROM.

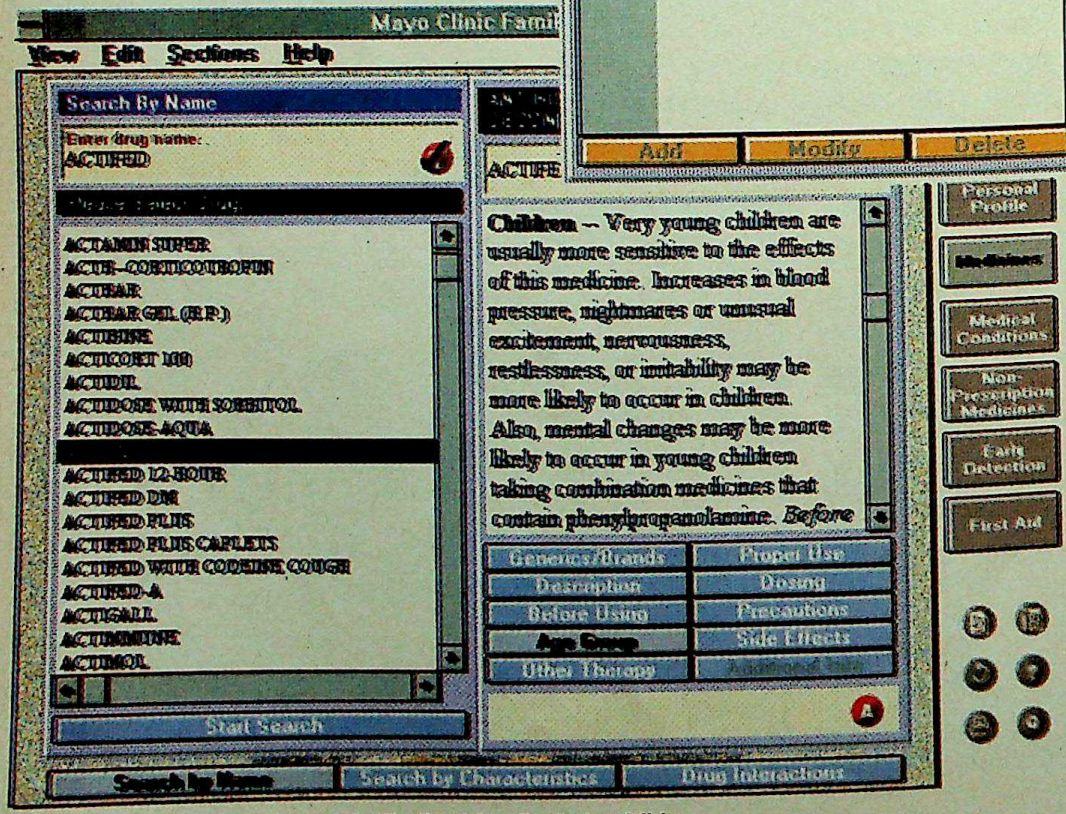
To begin with, there is some useful, yet general, information on medication including precautions, mishaps with medications, storage and preventing deterioration, getting more information about a medicine you are taking, and getting the most out of your medicines.

In the Medicine section, you can search for a medicine by name. Some names may be brand names which may or may not be the same in India. But even if the brand name is unknown, the drug will probably be available under another name. This is especially true of generic analgesics such as ibuprofen, cetamol and aspirin.

Or you can use the phonetic aid to find medicines that you're ten the spelling of. You can also for a medicine by characteristics colour, shape and size. Search pop-up in a box that gives a de of the drug, its generic and brand (US only), proper use, dosage, tions for use, side effects, pre information, other therapies, a tional information. A box for interation and warnings will pop up. Clicking the 'A' icon in the



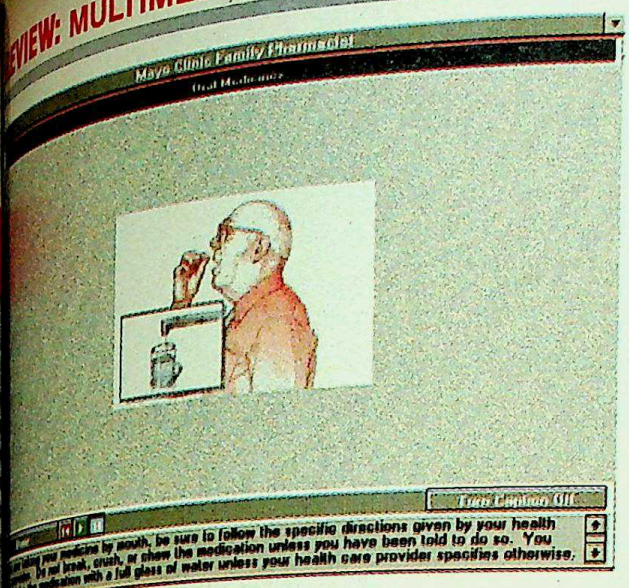
You can create a personal profile b gies and track medication and treat ment taken



This pop-up box warns about Actifed's side effects in children

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



of several, this animation shows how to take medication orally

Many videos, this shows how to treat a sprained ankle

nimation of how the medicine is
nistered.

To check on non-prescription medi-
s for common disorders such as
hs, colds, and vomiting, select the
nt and the preferred dosage intake
let, solution, etc.) and you are pre-
ed with information on various
es. You can also find medicines by
ching by medical condition, which in
cases, is easier.

An Early Detection section takes up problems such as cardiovascular risks, blood pressure measurement, and breast examinations, with some information on each. The customary First Aid section on this CD-ROM lists common problems that range from bee stings to heart attacks with videos that explain what to do. There's a nice Where Does It Hurt bar that lets you click anywhere on an illustration of the human body to quickly identify your problem.

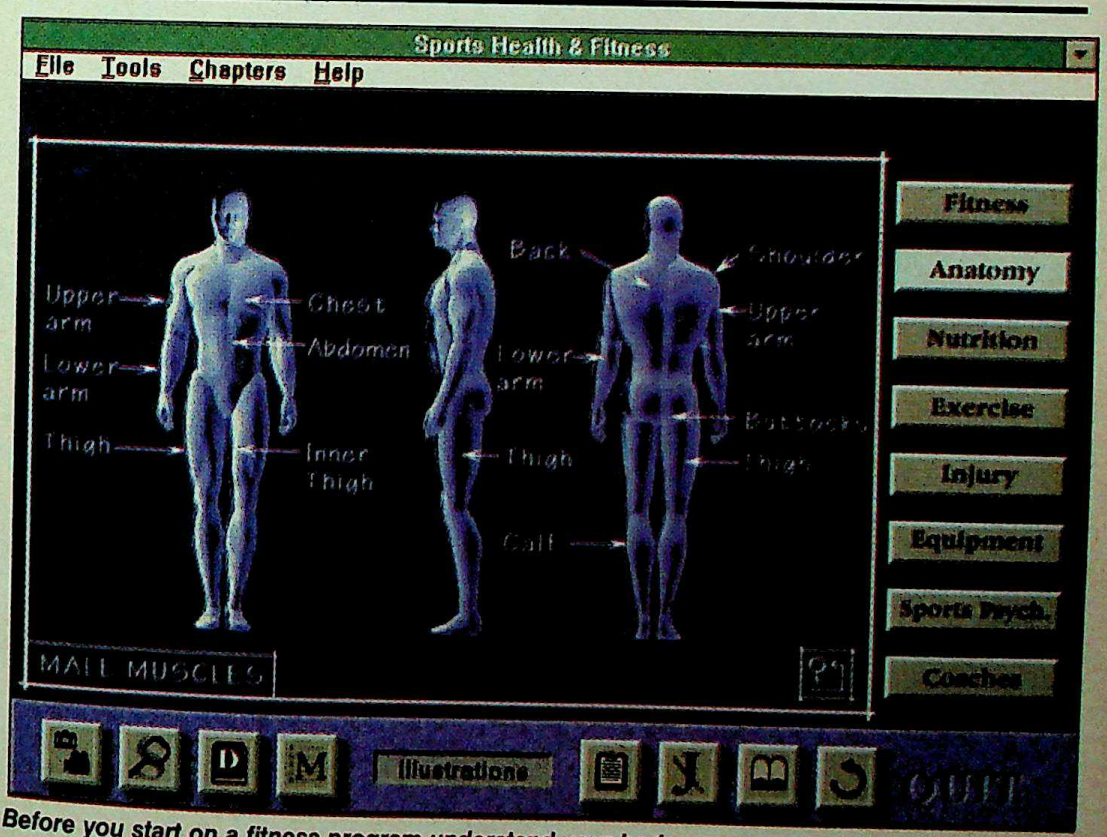
The main sections of this CD-ROM contain brand names that are available in the US. Although this limits this CD-ROM effectiveness in India, some medicines may be available under the same brand names. Although Family Pharmacist's general information, first aid section and advice is useful, it is not exclusive to this CD-ROM.

Mala Bhargava at PCQ Labs

(continued from page 129)

t are also featured. Simple sports
s has today been replaced by high-
equipment increasing exercise op-
. A special section talks about
rm sports gear and equipment.
derstanding and preventing sports-
ercise- related injury is dealt with
ction of its own. From bruises to
nitis, how to recover from injuries is
ed. There is also an entire section
sports psychology which includes
veight psychological techniques
s cognitive restructuring imagery,
dback, thought control, stress
gement techniques, special relax-
methods, including the Mayo
's own brand of relaxation and
general confidence building. There
anecdotes from well known sports
alities.

ess, sports and exercise guide-
or children, preventing injuries,
parental attitudes, sports stress
her special concerns concerning
n are discussed in a section on



Before you start on a fitness program understand your body.

Overall, however, this CD-ROM lacks a fun element. Most modules are handled with the utmost seriousness, and some humor to break the monotony would be nice.

Mala Bhargava for PCQ Labs

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The new Compact Range of ZOOM *fax* MODEMS
They're causing a Storm Worldwide!

ZOOM fax MODEMS. From Zoom Telephonics Inc., USA. The world's fastest growing manufacture
Leaping to a phenomenal growth of over 42% for the year ending 1995. With manufacture and sales
Zoom Fax Modems shooting over **One million** during the year! An achievement only a few select w
leaders can boast of.Literally causing a storm worldwide. **Now ready to create a storm in India!**

☑ *Independent tests carried out by PC World, February 1996 rated ZOOM as the "Best Buy" among*
12 competing 28,800 bps PCMCIA faxmodems. ☑ *ZOOM's V.34 external faxmodem just won PC*
Professionell's "Best Buy" in Germany as compared to 13 other faxmodems. ☑ *And in Infowo*
recent tests, ZOOM's V.34 PCMCIA faxmodem was rated above the market share leaders.

Marketed & Serviced by:

ADROIT TECHNOLOGIES LTD.

P. O. Box : 4944, B-4/115, Safdarjung Enclave, New Delhi-11
Phone : 6871353/6871553/600132 Fax : 91-11-6117576
E-Mail : zoomdel. adroit @ sm8. sprintrpg. sprint. com
zoomdel. adroit @ axcess. net.in

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVERTISERS INDEX

This list of advertisers is to help you in locating a particular advertisement in this issue. However, if you would like to have further information on any of the companies/products advertised herein, please write the relevant code number on the Readers Query Card provided and mail it to us. We will forward it to the relevant advertiser.

Code Number	Advertiser	Page Number
06001	ADROIT TECHNOLOGIES	132
06002	ALBIT	18
06003	APPLE COMPUTERS	33,34
06004	BENCHMARK	52,53
06005	BPB PUBLICATIONS	117,119
06006	CAP COMPUTERS	156,157
06007	COREL CORPORATION	74
06008	COREL SOFTWARE	59
06009	CREATIVE DATA SERVICES	157
06010	CTEL	167
06011	D-LINK INDIA PVT. LTD	68
06012	DATAMATICS LTD.	17,43
06013	DATEX	21
06014	DUCKBACK INFOSYS	155
06015	EDP AIDS	64
06016	EDP CORPORATION	28
06017	ELENT	48
06018	ELNOVA	56
06019	FIFTH GENERATION	22
06020	GEBBS INDIA	155
06021	GODREJ TRADING & SERVICES	77,79,93
06022	GOLDSTAR	10
06023	HP	81,83,I.B.C
06024	INDUSTRIAL ADAPTERS	142
06025	INFOSYS	113
06026	KIRLOSKAR COMPUTER CENTRE	168
02027	LIPIDATA	98,171
02028	LOGIX	35
02029	MEDIA TECHNOLOGIES	24
02030	MICRODOT	121
02032	MICROLAND	8,9
02032	MICROSENSE	14
02033	MICROTEK	6,146
02034	MICROWARE	141
02035	MODI XEROX	62,63
02036	MODULAR SYSTEMS	84
02037	MULTITECH SYSTEMS	I.F.C
02038	MULTITECH SOFTWARES	13
02039	ORACLE SOFTWARES	87
02040	PHAROS INFOTECH	165
02041	POWEETEL BOCA	60
02042	PRIYA INTERNATIONAL	139
02043	PROLAND SOFTWARES	109
02044	PUSTAK MAHAL	161,163
02045	RADIANT	47
02046	REDINGTON	26,27
02047	SANDUR	102
02048	SES COMPUTERS	101
02049	SOFTLINK EXPORTS	31
02050	SOLUTIONS INDIA	156
02051	SQL STAR PEOPLE INDIA LTD.	149
02052	SUPER DOMESTIC DUST BUSTERS	168
02053	SUPERTIMERS	112
02054	SUPPORT SYSTEMS	124
02055	TISL	2,3
02056	TRANSDOT	165
02057	TULIP SOFTWARES	94
02058	TVS ELECTRONICS	97
02059	VINTRON	1
02060	WANLAND	150
02061	WINTECH	175
02052	WIPRO PERIPHERALS	4,5
02053	WYSE SYSTEMS	145
02054	WIPRO PERIPHERALS	66,67
02055	XON	90
02056	ZENITH COMPUTERS	B.C.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Corel Medical: Epilepsy

An effective guide for medical professionals and epilepsy patients

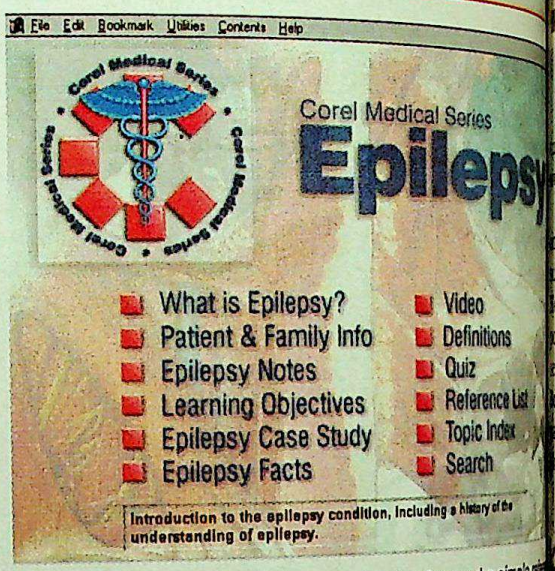
CD ROM

Corel Medical Encyclopedia: Epilepsy for
dows 95 and 3.1 and Mac. Sivam Sri
Rs 1,350. RQS No #E0623
A comprehensive learning program for
one concerned with epilepsy, espe
the medical profession, including stu
physicians, teaching institutions and
ics. Includes CorelShow for presen

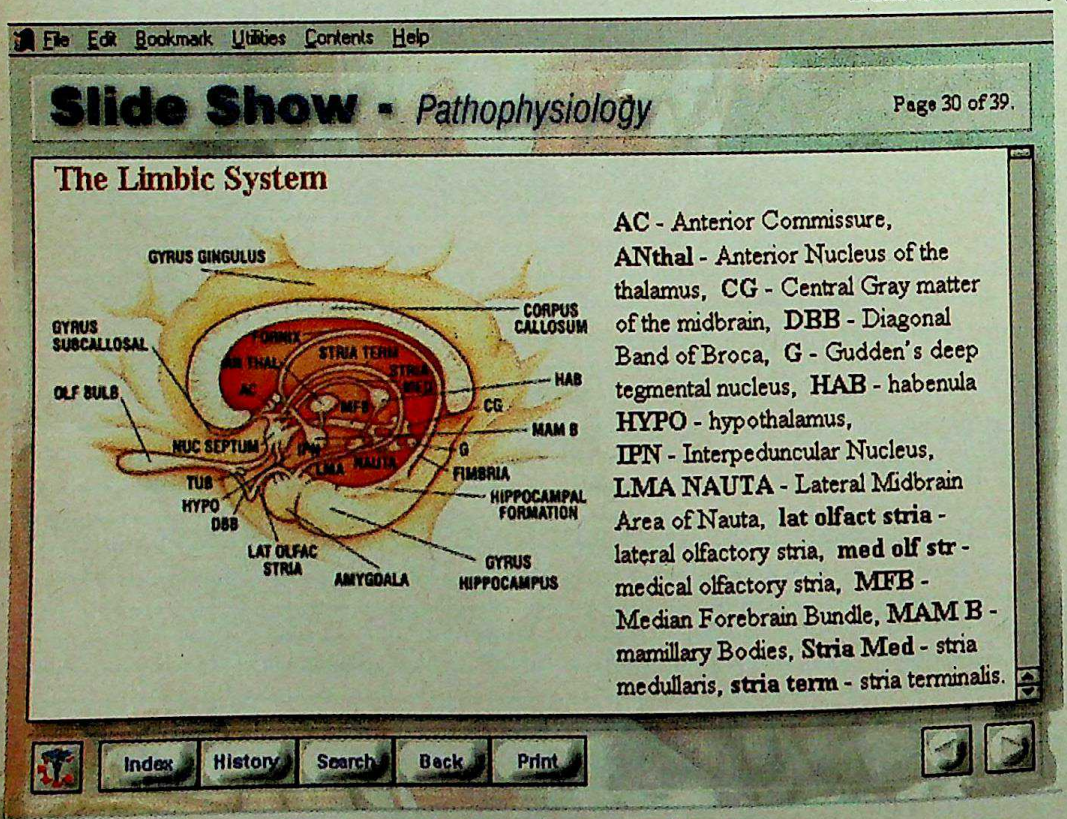
Epilepsy patients comprise between one and two percent of the total population. Anybody can have an epileptic seizure—under the right conditions. Although genetic factors play an important part in determining a person's threshold for seizures, people with epilepsy have sometimes suffered from some form of brain damage—a head injury, a stroke, a neurological disease, or unnoticed trauma at birth.

Epilepsy is a condition with many causes, and a variety of forms. The patient has a tendency to have recurrent seizures, usually without any provoking factors. During an epileptic seizure, there is an excessive electrical discharge from the brain cells and this is what causes observable changes in behavior such as jerking of arms and legs, and loss of consciousness.

Whatever the cause or the form the seizure takes, the psychological and social fallout often completely outweighs the problem itself. More than anything, it is important for the health care giver, patients and their families to learn about epilepsy. This CD-ROM



Though meant for doctors, an introduction and a simple re... make it useable by patients and their families



This slide of the human brain is part of a Pathophysiology slide show

from the Corel Medical Series is a prehensive study of epilepsy. The tent is presented neatly and log using an interface that is easy to gate. The content is largely textu there is appropriately little multi gimmickry and very few sound clips only video clips are those necessa additional clues to diagnosis.

This CD-ROM is really intended medical audience—students, g practitioners and neurologists— would also makes for a good tea tool at medical institutions. For the care professional there are **Epi Notes** and **Epilepsy Facts** in a show format, including detailed tions and classifications. While it what surprising that there is no case study (with questions) but video clips demonstrate well the forms of epileptic seizures—mu

(Continued on page

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AMA Family Medical Guide

Dorling Kindersely's informative health guide for families

CD ROM

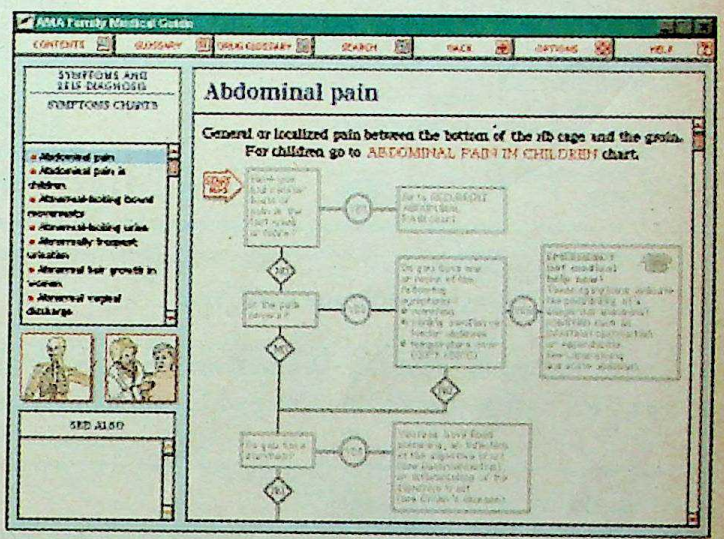
Dorling Kindersely: AMA Family Medical Guide for Windows 95 and 3.1. BPB Publications. Rs 2,999. RQS #E0622

This CD-ROM is a readable, text- and picture-based guide on health information, care and decisions. It covers the human body, disorders, medical emergencies, care giving, well being and medical facts. However parts are relevant only for the US.

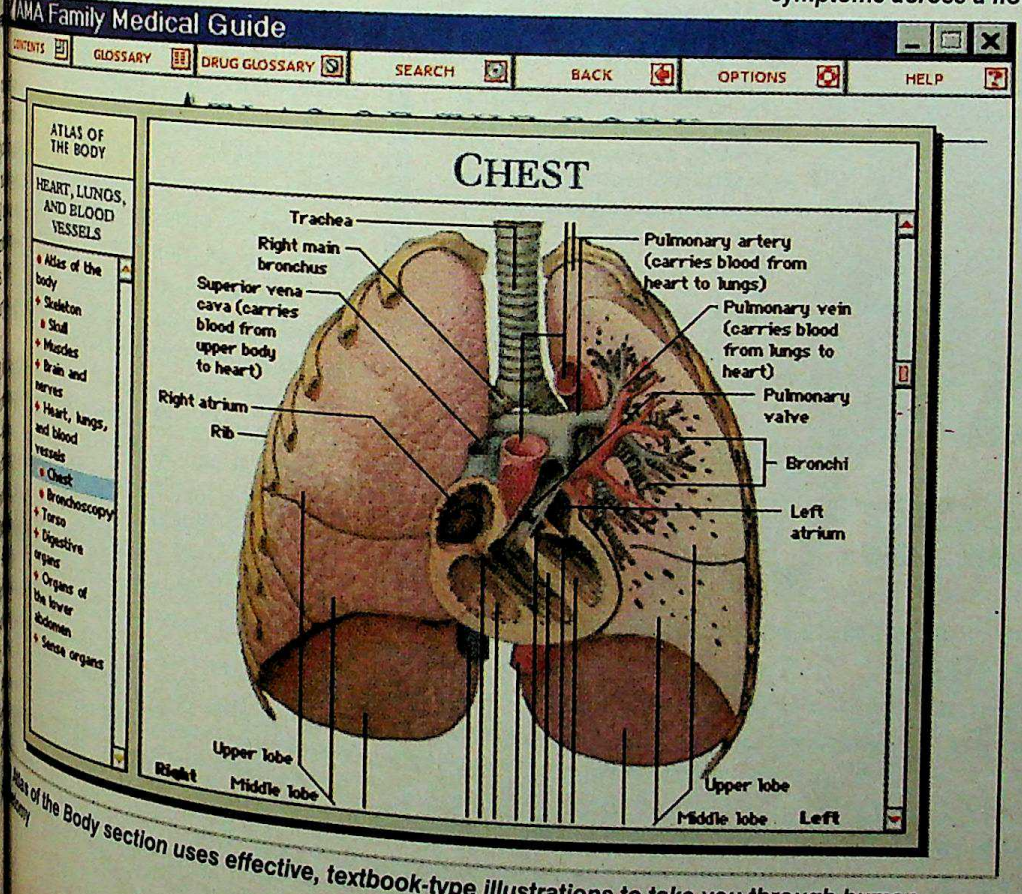
The articles that form the core of this CD-ROM are extracted from the *AMA* (American Medical Association) *Family Medical Guide*. They are easy to read and have been de-jargonized. The information contained in this Guide is meant, not as a substitute for medical advice, but towards preventing health problems and working with your doctor to manage disorders when they do occur.

The information is well categorized for quick access. The category **Diseases, Disorders and Other Problems** is accessed through a subject index. Each subject, such as **Blood Disorders**, **Children's Health** or **Disorders Of The Eye**, has several articles with supporting pop-ups and cross-references. An alphabetical index and a global search feature also gets you specific information fast. **Atlas Of The Body** contains brief descriptions with clear illustrations of organs and parts of the human body. There are also a medical and a drug glossaries.

The self-diagnosis section is a very useful, neatly arranged one,



A self-diagnosis section in the track down problems by tracing symptoms across a flowchart



Atlas of the Body section uses effective, textbook-type illustrations to take you through human

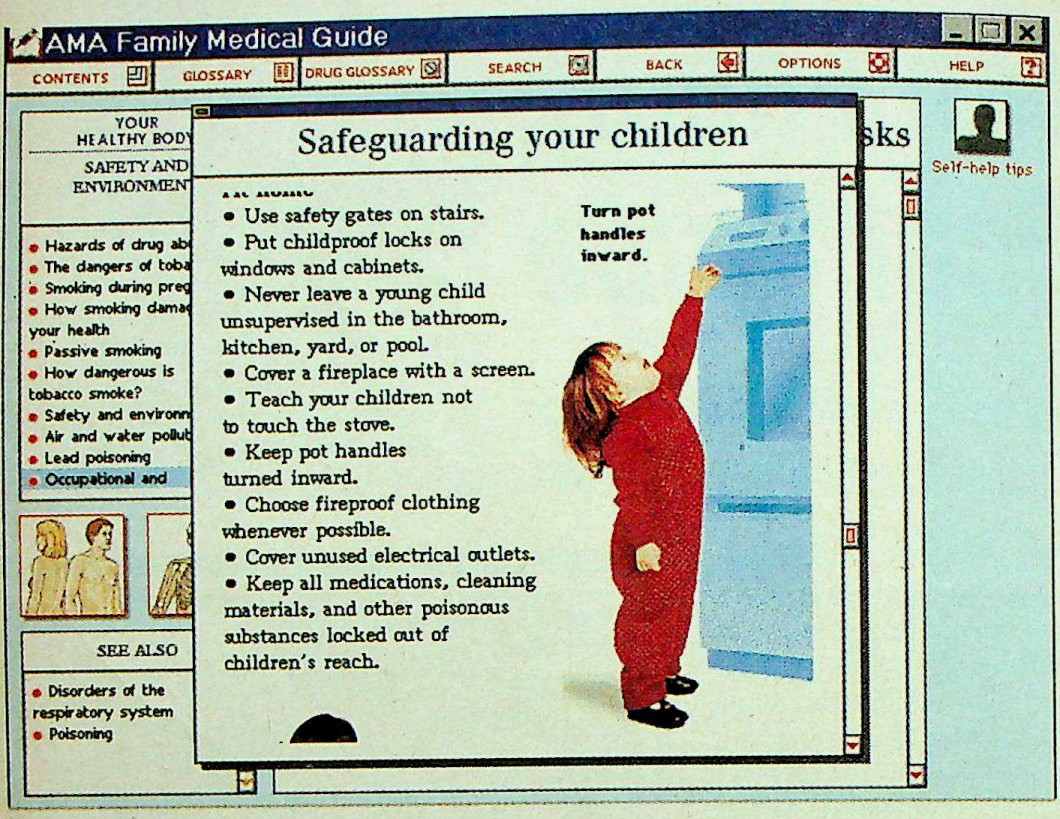
where you can diagnose the more common problems using either pain-site or body system routes. These are differently categorized for men, women and children. Pinpoint a symptom and then follow a diagnostic chart to find out what could be causing it and what you should do. The severity and urgency of the problem can also be assessed. A **Cancer Watch** runs through the entire section, linking each problem to a pop-up telling you the significance of the symptom for cancer.

Diagnostic imaging techniques such as ultrasound, CT Scan, MRI, conventional X-RAY, endoscopy and other tests are featured with photographs and explanations. The articles in this section describe exactly what will happen during these tests.

A **Health** section covers exercise, diet, safety and environment, losing weight, alcohol and

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



A pop-up box gives you health and safety tips

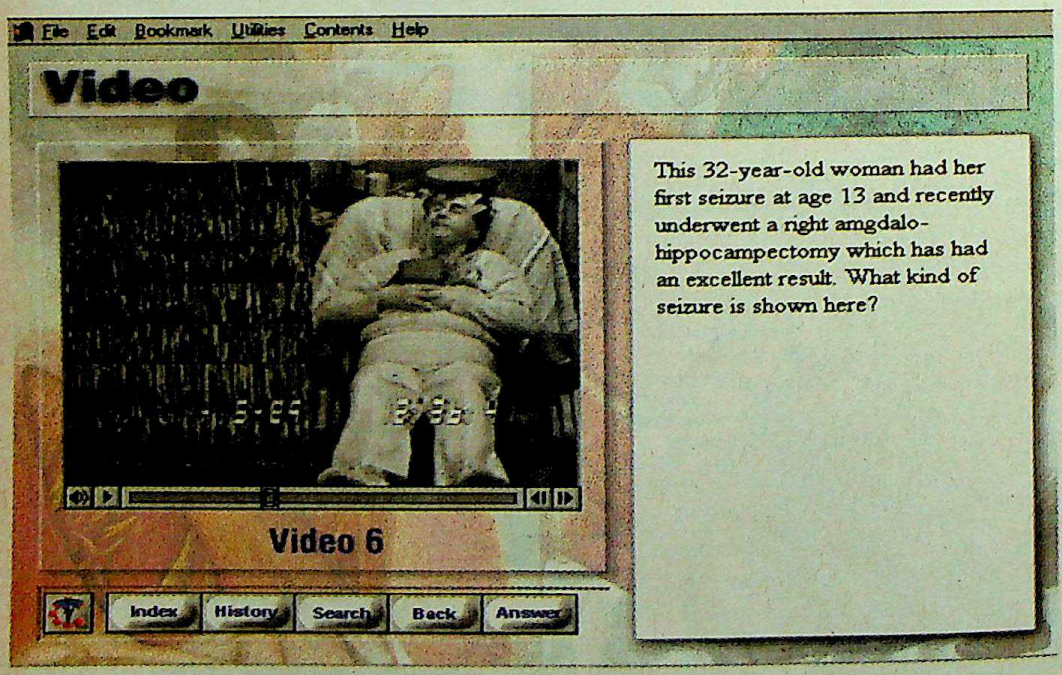
tobacco problems, and the effects of stress. There are self-help tips along with information on tests. Injuries and emergencies too are listed alphabetically with precise descriptions and illus... on what should be done in the ... heavy bleeding, shock, burns ... on.

Caring for the Sick is a se... section with practical tips on ... ing a physician, getting second ... ions, health care systems, care ... at home, including how to ... sick children, the elderly, ... care and other topics.

This CD-ROM is aimed pri... for the American public, and s... the information concerning hosp... and health care facilities does ... ply to India. There are no anim... video clips on this CD-ROM, and ... some of the articles are accomp... by commentaries. The inform... text-based with supporting ill... tions, photographs and charts ... ertheless, this CD-ROM is a ... guide for a family conscious ... need to make informed healt... sions.

Mala Bhargava for PC...

(Continued from page 136)



One of nine video clips, showing a complex partial seizure with secondary generalization in a 32 year-old woman with the EEG pattern on the left

patterns and the time displayed. There is even a useful quiz of randomly generated questions.

Users will be able to understand the pathophysiology of the various epileptic seizure types including alterations in neuronal membrane excitability and ionchannels, disturbances of neurotransmitter functions and histological changes. The anatomy and circuitry of the brain and what happens during seizures, changes in the central nervous system, physiological and biochemical changes and other pathological and clinical consequences are all described. Classi... seizures and syndromes and differ... diagnosis, treatment and manage... principles and modules, drugs and ... interactions are all covered. The be... ioral, psychiatric and psychosocial ... pects are also discussed.

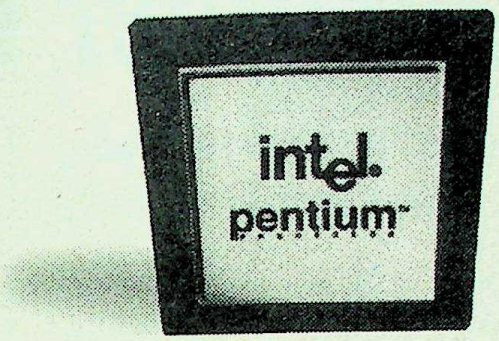
For epilepsy patients and their ... lies and for anyone concerned with ... lepsy, the program is a complete g... the condition—as long as it is not ... for self-diagnosis or to substitute ... cal advice and treatment. Informa... the patient and the family ... been thoughtfully separated in an ... duction, and a section that summa... the facts including how ... epilepsy is, how it is diagnosed, wh... it, what are the main kinds of sei... how epilepsy is treated and when s... is indicated. There is information ... the patient and family must ... to help the doctor in treatment, ... others can do when a person ... a seizure and advice on how ... with epilepsy.

Mala Bhargava for PC...

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Begin With Twin intel® Advantage



and

motherboard

Experience the amazing power of **pentium™** processor
And the high performance of motherboard made by **intel®**

Now available from Priya at a special package price !

FEATURES

- WINDOWS 95 - ready
- High performance PCI local bus
- Flash BIOS for future up-gradability
- Level-5 Over Drive Ready
- Plug and Play
- PCI enhanced IDE on board
- On board 2 serial, 1 parallel port and FDD controller.
- EDO DRAM Support.

THE PRIYA GROUP

PRIYA INTERNATIONAL LTD., THE AUTHORISED DISTRIBUTOR FOR INTEL, CONTINUOUSLY BRINGS YOU HIGH END, HI-TECH PRODUCTS AT RIGHT PRICES. ADD TO THAT THE BENEFIT OF PRIYA'S SERVICE, PRODUCT WARRANTY, TECHNICAL SUPPORT AND THE ASSURANCE OF GENUINE QUALITY. AND YOU HAVE BEST OF BOTH THE WORLDS.

Now stocks available from our local outlets also.

Priya GROUP

TRUE VALUE FOR YOUR MONEY

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 266 3783, 285 4037

Branch Offices: Bangalore: Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422378, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

*The Logos and Trade Marks shown above are of their respective owners.

PIL/06/95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WEB.Designer

Design personalized Web pages using this authoring suite

CD ROM

Corel WEB.Designer. Requires Win 3.1 or 95 or Mac. Corel Corporation, Canada. RQS #E0633

WYSIWYG Web editor for authoring Web pages with automatic HTML programming. Includes WEB.Gallery with 120 templates and 8000 images, and WEB.Transit for converting most word processing files to HTML.

This mini-suite of Web authoring tools makes designing and creating Web pages really simple. It contains **WEB.Designer**, a WYSIWYG Web editor. Also included are **WEB.Gallery** (also sold separately) with templates and clipart, and **WEB.Transit** to convert word-processed files to the HyperText Markup Language (HTML).

HTML is not difficult to understand and use. It is more or less dispensed with here, as you directly enter text in Designer, which uses the familiar Windows word processor interface, and includes features such as formatting toolbars and a spell checker. As you create your file, primary HTML tags are generated, and tags for hyperlinks, hotspots, forms, and character and paragraph styles, such as bulleted and numbered lists, are entered using the toolbars and menus.

An HTML source code mode allows HTML editing, which could have been done by a hotkey. A document tree showing the level of your tags is formed as your file grows. Designer's help has tips on organising files to work locally or on a server, a particularly useful feature for novices. Image maps are also easy to create, and there's support for Java applets as well.

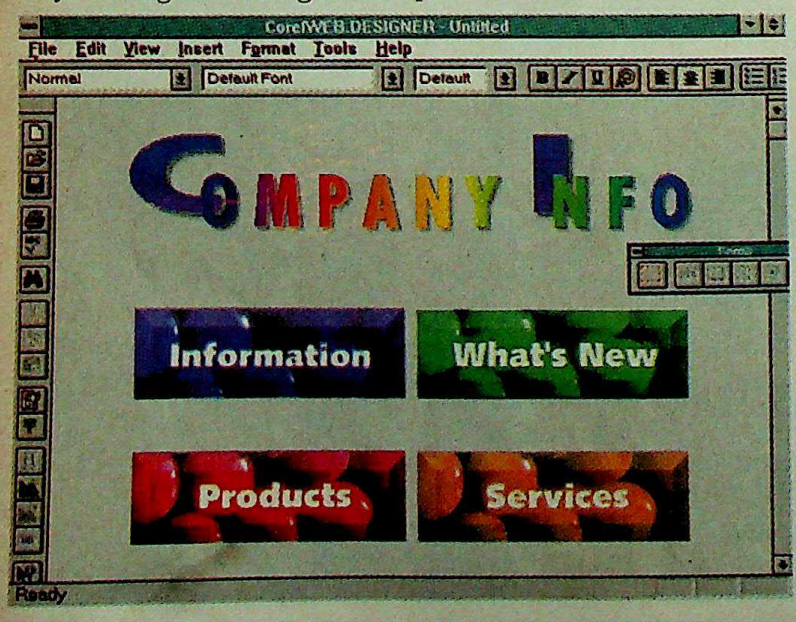
There are 120 templates for business and personal pages, including newsletters, calendars, lists, searches, product announcements, and resumes. These can be opened and used to quick-create a page—enter your text and, if you like, your own images—theoretically.

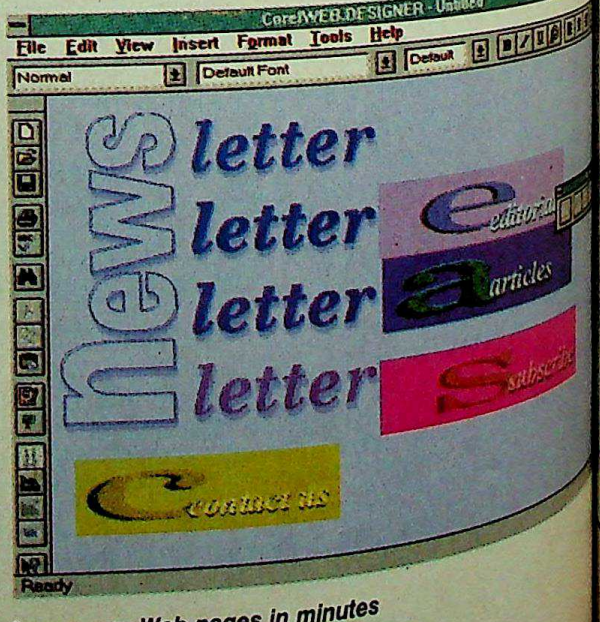
The problem with using your own images or text that doesn't precisely fit the predefined layout throws out the page's alignment. When this happens you need to go to the HTML source to edit it, or give up and work with your own more individual page design.

Designer doesn't support tables, nor is it particularly tolerant of pages created using other apps and starts becoming fussy about tags that others work just fine. The software pop-up tags in an objection box while opening older files. Moving a file from one directory to another also confuses Designer.

Web.Gallery is a treasury of buttons, arrows, bullets, dividers, clipart, icons, backgrounds and pictures in JPEG and GIF formats. These are arranged in galleries, and galleries arranged in albums. The 8,000 images, sometimes in two different resolutions and levels, are 'Net ready' for inclusion.

(Continued on page



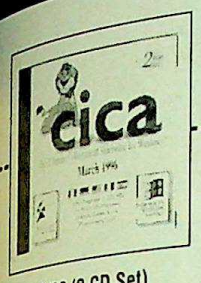


You can use templates to create a few snazzy Web pages in minutes

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

microware CD-ROM



CICA 3/96 (2 CD Set)

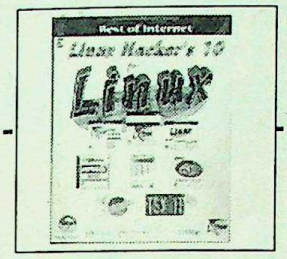
The ultimate collection of Shareware for Windows! 3,062 Programs (1,223 Mb) for Microsoft Windows. Utilities, Games, Icons, Programming Tools.

Rs. 1,125/-

Simtel (2 CD Set)

Direct from Internet, over 1200 Mb (10,000 files) of MSDOS Shareware programs.

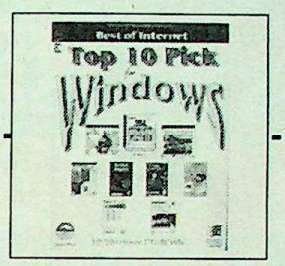
Rs. 1,650/-



Linux Hacker's 10

Get the best of Linux in low priced pack. Includes 10 titles : Sunsite, TSX-11, GNU, Red Hat, Mpeg, Monthly Arhive & more

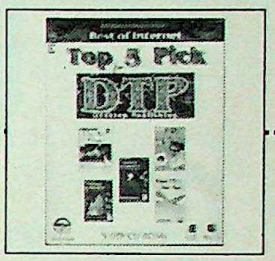
Rs. 4,000/-



Top 10 Pick For Windows

10 CD-ROMs : WIA, Game Head, Jumpiter Impact, Clip Art Palette, Internet Power Web, Space View, Pht Illustrations, Bosworth Photos and more ... Best Buy!

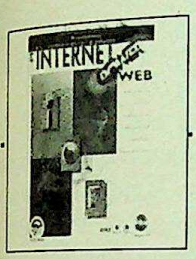
Rs. 4,000/-



Top 5 Pick for DTP

5 great CD-ROM titles from PHT for a low price. Paper Backgrounds, Pht Illustrations, Clip Art Palette, Norma Bosworth Photos Volume I & II

Call!



Internet Power Web

Complete source for information on composing and maintaining World Wide Web pages. Includes printed documentation, tools and examples for HTML

Rs. 1,950/-

Task Buster

2,323 applications and utilities for Win, Win 95 and DOS. Includes 286 pages book giving you printed reference to all the programs on the CD-ROM.

Rs. 1,950/-

Telecom

34,728 files of articles and messages about Telecommunications. You'll learn about the Telecommunications industry and about Telecom technology.

Rs. 2,250/-

Dr. Music Lab II

Sequel to the best selling title, Dr. Music Lab II gives you the best utilities for your sound card and Hundreds of music/sound clips from internet.

Rs. 750/-

MEGA PACK 5

10 great games including Terminal Velocity, Flight Unlimited, Primal Rage, Pinball Fantasies, Jagged Alliance, FX Fighter, Warlords II Delux and more!

Call!

Ask for your copy of our CD-ROM catalogue on disk. Our CD-ROM Catalogue-on-Disk software gives you complete information (over 300 pages) including features, system requirements of all the CD-ROM titles that we stock. You also get 10 True Type Fonts & 100 B&W Cliparts Free! The Catalogue is available on 1.44 Mb Floppy Disk and is priced at Rs. 100/- The Catalogue amount is adjustable against your first order of any CD-ROM Title (except Walnut Creek and Pht Sampler). The Catalogue requires 640 Kb RAM and 2 Mb of Hard Disk Space. OUR CD-ROM CATALOGUE IS ALSO AVAILABLE ON PCQUEST DECEMBER'95 CD-ROM.

Over 300 titles for Dos, Win/Win95, OS/2, Unix & Mac on General / Shareware, Operating Systems, Programming Tools, Utilities, Edutainment, Internet, BBS, Astrology, Health, Fitness, CAD, DTP, Cliparts, Fonts, Animation, Graphics, Video, MPEG II Movies, Video CDs, Photo CDs, Image Libraries, Games, Music, Sound & many more

Microware Computer Services

1, Paras, Near Dr. Baliga Nursing Home, S. V. Road, Goregaon (West), Bombay 400 062 Tel : 872 74 46, 872 97 25, Fax : 872 74 46

Microware CD-ROM collection is also available at :

BOMBAY : B. Desai Road : Crossword - Tel : 4922458, 4924882, 4938311 Fax: 4938406 **Fort: Akbarallys** - Tel : 2047155, 2043921 **Gamdevi : Rainbow** - Tel : 387 02 60, 388 14 43 Fax: 386 09 91 **Samuel Street: Citrine** - Tel : 3423946, 3423946, 3435886, Fax : 341 1046 **Worli: Computer Point** - Tel : 4948380, 4922907, 4934111 Fax: 4935904 **Khar: Danai** - Tel 6487123 **Santacruz : Akbarallys** - Tel 6494325, 6490196 **Chembur : Akbarallys** - Tel : 5220307, 5220308, 5220309 **Goregaon : Marusoft** - Tel : 873 86 35, Fax : 873 86 35 **SURAT : Astrolab** - Tel: 424652, Fax: 123456 **AHMEDABAD : Crossword** - Tel : 402238, 468176 Fax: 468176 **PUNE : Popular Book House** - Tel : 371737, Fax : 375600 **HYDERABAD : Comprint** - Tel : 203268, 202120 Fax: 202120

DEALERSHIP ENQUIRIES SOLICITED

We accept Master and Visa Credit Cards. For Outstation Orders, 100% advance has to be remitted by Demand Draft in favour of Microware Computer Services payable at Bombay. Outstation orders will be shipped by courier. Please add Rs. 100/- for packaging and courier charges. When ordering our Catalogue, please add Rs. 25/ for shipping and packaging charges. Microware is the authorised distributor of Walnut Creek CDROM (USA), Pacific Hi-Tech (USA), Tech Express Inc. (USA), PS Multimedia (USA), Viagrafix (USA) and Accurate Research Inc. (USA). We are not responsible for any typographical errors. Prices subject to change without notice.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

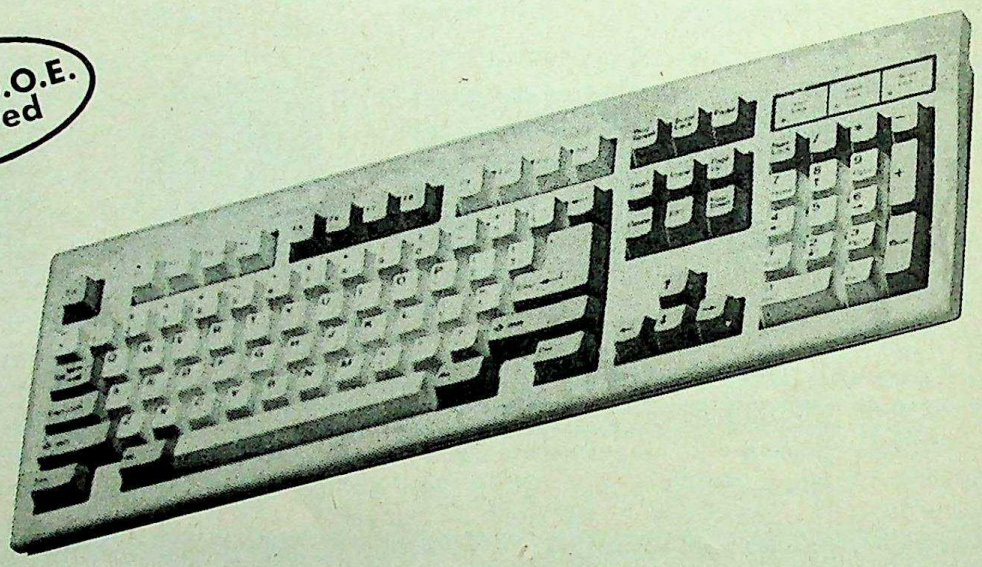
Digitized by Arya Samaj Foundation Chennai and eGangotri

AT THE APEX OF ENDURANCE

FLIP-TOP-KEYBOARD™

The Only Keyboard With A Tropicalized Membrane

E.R.T.L. / D.O.E. Approved



THE ONLY MEMBRANE KEYBOARD THAT SURVIVED A HAMMERING FOR 10 MILLION KEY STROKES AT 2000gms. AS AGAINST 90gms. AS SPECIFIED BY D.O.E./S.T.Q.C.

NEED WE SAY ANYTHING MORE?

Manufactured by : ***INDUSTRIAL ADAPTERS,*** 149, Guru Gobind Singh Ind. Estate, Western Express Highway, Goregaon (E), Bombay - 400 063. Tel. : 8732788 Fax : 022-6268105

Available at : ***Western Zone*** **: AHMEDABAD** ★ Jaytronics Tel. : 464546 / 461643 **BARODA** ★ Type House Tel. : 328895 **BOMBAY** ★ Sapphire Micro Systems Tel. : 5782160 / 5782753 **JAIPUR** ★ Computer Jyoti Tel. : 514107 **JODHPUR** ★ Computer Tech & Consultancy Tel. : 27958 **KOTA** ★ Reckon Computers Tel. : 20095 **PUNE** ★ The Hard Shop Tel. : 423142 **RAJKOT** ★ Creative Computers Tel. : 34861 **SURAT** ★ ICM Consultancies Tel. : 423181 ***Southern Zone*** **: BANGALORE** ★ Trinity Business Systems Pvt. Ltd. Tel. : 645324 / 648029 ★ Arison Electronics Tel. : 6648413 / 642411 **CALICUT** ★ IC Soft Tel. : 62139 **ERNAKULAM** ★ Radha Electronics Tel. : 372436 / 369741 **MADRAS** ★ Devraj Computers (Pvt.) Ltd. Tel. : 8525856 **SECUNDERABAD** ★ Computer Valley : Tel. : 814025 **TRIVANDRUM** ★ Softec Computer Tel. : 462395 ***Northern Zone*** **: CHANDIGARH** ★ Fair Brothers Marketing Tel. : 704182/706503 Extn. 23 **DELHI** ★ Computer Jyoti Tel. : 2229681 ★ M.C. Modi & Co. Tel. : 6461229 / 6431016 ★ Software Computers Delhi Ltd. Tel. : 5512244 / 5523056

Dealer enquiries solicited

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Value 95

An easy-to-setup Windows 95 accounting software

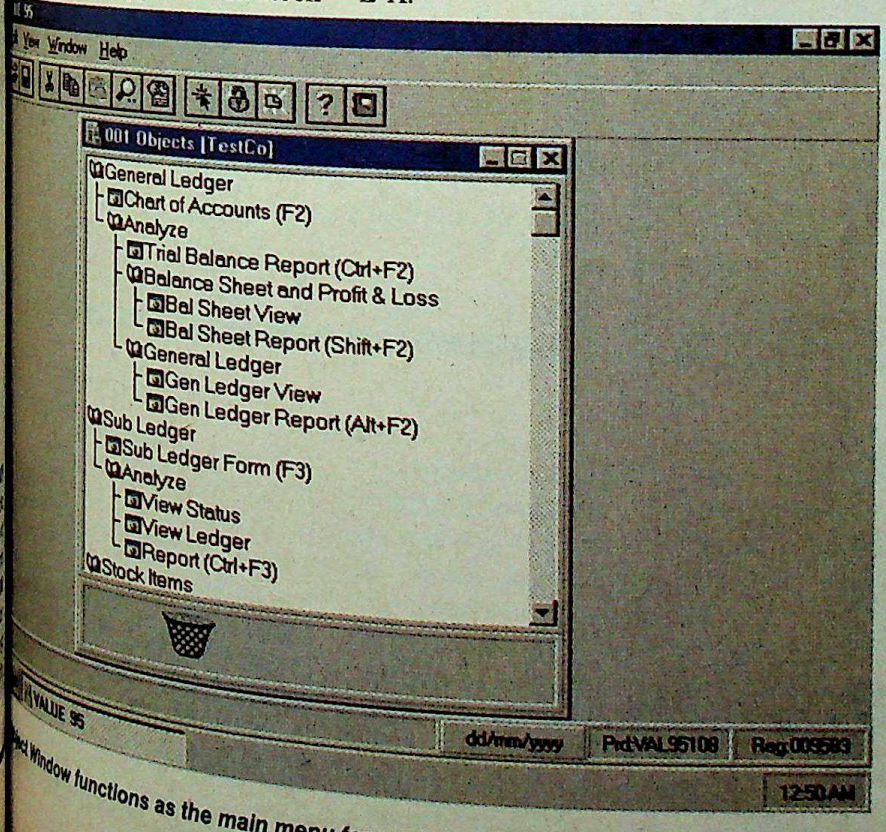
alue 95 is the first Indian finan-
cial accounting (FA) software to
move to the Windows 95 environ-
ment. Its quite easy to install
se, but doesn't have some of the
rs found in FA such as Tally and

lue 95 is code-less and allows you
intain accounts for multiple com-

eating a new company is fairly
ht forward using the Company Cre-
Wizard. This prompts you for a few
e items including the name and
ss, before asking you to select a
of Accounts template for the new
ny. The package ships with lots of
ting templates for businesses in-
g advertising agencies, construc-
ompanies and dental clinics. You
then asked to define the financial
and enter the names of bank ac-
s, customers, suppliers and stock
items. The Wizard then proceeds to create your new Chart of Accounts and you are ready to begin work.

Accounting operations such as voucher entry and report generation are performed through the Object Window. This in turn contains a structured menu that is also the main menu for the company in use. The sub-menu items are General Ledger, Sub-Ledger, Stock Items, Vouchers, Card File, Analytical Tools, Administration, Trouble Shoot(ing) and Miscellaneous. Value 95 allows you to open more than one company at a time by creating a separate Object Window for each company opened.

Value 95 uses a very simple Chart of Accounts-structure with a two-level general ledger—sub-ledger hierarchy. The package offers fairly little sophistication in this regard with there being no provision for the nested groupings in Tally or E-X.



Value 95 Window functions as the main menu for each company

THE SPECS

PRODUCT: Value 95, a Win 95 FA. Requires 8 MB RAM with Windows 95.

FEATURES: Accounting package with General Ledger, Sales/Purchase Accounting, Accounts Receivable and Payable and Inventory. Contains support for multi-tasked vouchers and a novel Calendar Analysis feature.

PRICE: Rs 7,500

SUMMARY: Ideal for small businesses planning to shift their accounting or have started with Windows 95.

DVP: Duckback Information Systems Pvt Ltd, 41, Shakespeare Sarani, Calcutta 700017. Tel: 033-2402726, 2471601 Fax: 033-2476152

Reader Query Service #E0626

But on the flip side, in Value 95 setting up a Chart of Accounts is very easy. You need to enter in a list of accounts and specify the account type (asset/liability/income/expense/contra), if the account is a control account and if a sub-ledger is to be associated with the current account. Sub-ledger implementation is quite conventional, with sub-ledger accounts mapping onto a control account.

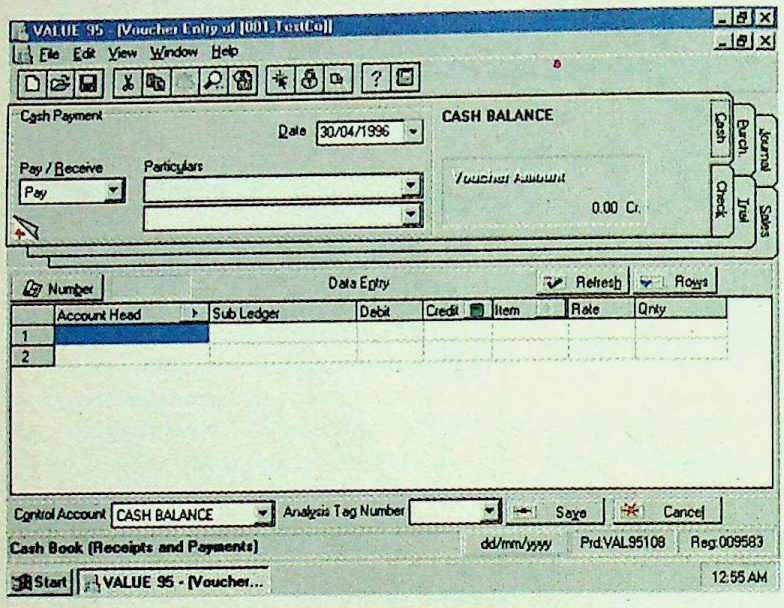
The next step is defining stock items. Value 95 makes you input the item's name, the sales and purchase accounts associated with it, the dealer and customer prices, the minimum and safety stock levels, and the economic order quantity (EOQ). Inventory reports available include the Stock Ledger, stock level-based Exception Reports and ABC Analysis.

Value 95 accepts standard cash, bank, sales, purchase and journal vouchers. These can be entered in both conventional form and as single line vouchers. In addition, there is also a novel calendar-based method for entering vouchers where you drag the entry onto a date in the calendar.

Reporting is comprehensive and includes Day Books, Trial Balance, Final Reports (Profit and Loss and Balance Sheet), Bill Registers, Client-Wise Sales,

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



The primary Voucher entry screen

Vendor-Wise Purchase, Sales and Purchase Outstandings, and Invoice and Purchase Ageing Analysis. All reports are displayed in a preview window with adjustable zoom. Report generation speed appeared to be good but we did not test the application to its limits. Query facilities are adequate and queries can be carried out at the Chart of Accounts level.

Analytical capabilities are provided by analytical tags. Each tag is a six character string consisting of three parts of one, two and three characters. This string can be pasted onto each voucher to classify the transaction contained in the voucher.

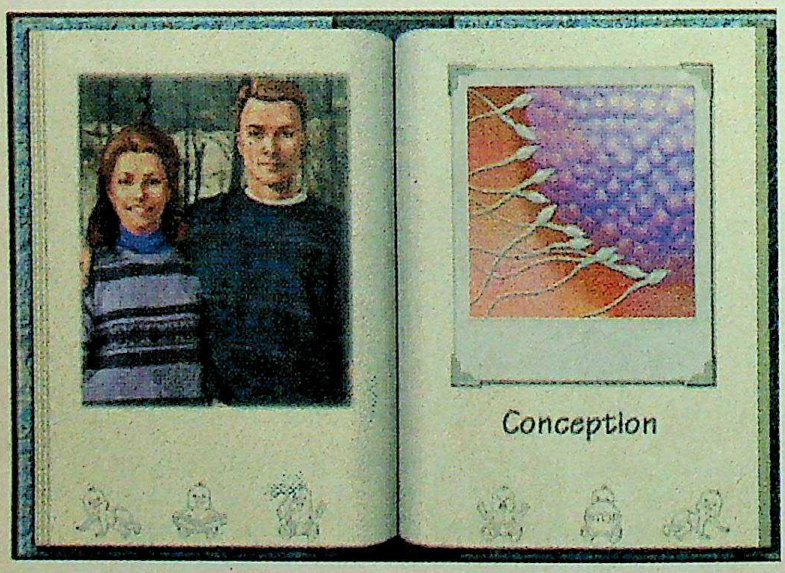
A typical use of analytical tags would be to implement Cost-Center based accounting. For example, the first character could be used ... department type, the next two ... the department itself and ... three the actual cost center. The ... cal tag can also be used to filter ... tions.

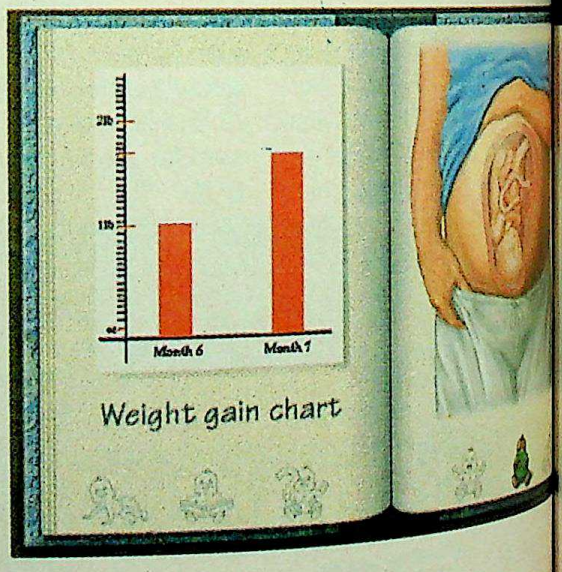
Value 95's other features ... dockable speed bar, a card file ... tain a database on customers, ... and employees. The software ... Cue Cards to guide novice users ... each step with extensive on-... available through the Windows ... system.

As for accounting features, ... is not yet state of the art. But it ... a fairly clean method to perform ... ing using Windows 95. It appears ... for small businesses who have ... the transition to or are starting ... Windows 95.

Gautama Ahuja at PCQ...

(Continued from page 122)





Eve and Adam's Family Album...watch as the baby grows

Family Album - tests, possible problems and complications and even changes in relationships with each other. The Family Album moves into the stages of labour and delivery and finally, the nine month miracle.

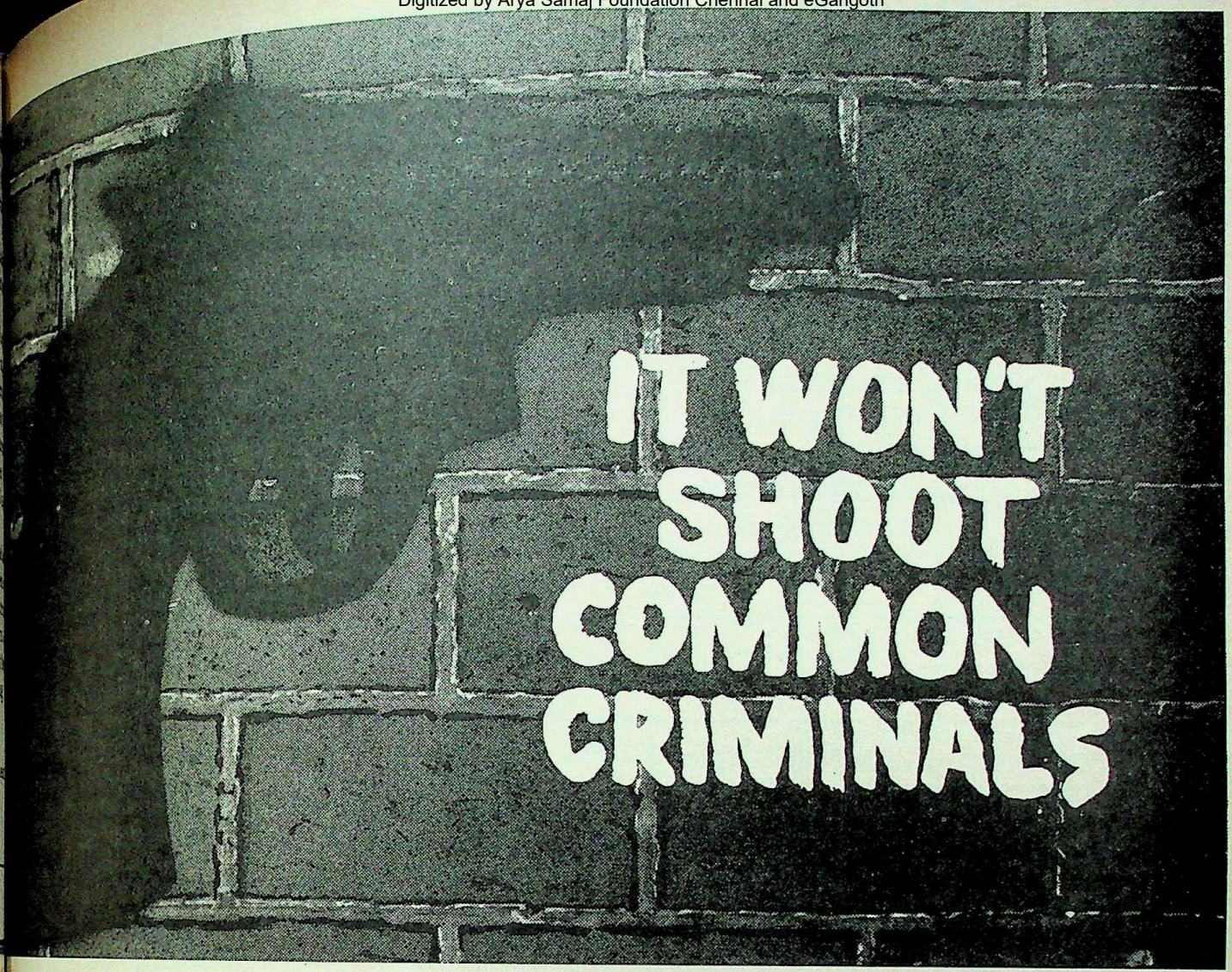
Parents can use the Kid's View of Pregnancy to answer children's' questions like where do babies come from, how big is the baby, will it be a boy or a girl, what does the baby eat, why does the baby hang upside down and more. There are also some baby related games here.

At any time, you can veer off to explore videos, animations, the EVU, or look up the dictionary on this disk. There are some real life ultrasound videos too. Despite the number of video clips and lengthy animations, the disk is trouble-free, well put together and easy to navigate. There is not too much medical detail here and the CD-ROM is not meant as a guide for medical students or medical professionals although gynaecologists may like to use this CD-RO... orientation for their patients. ... reference on the disk contains ... index of assorted pregnancy ... ics: Birth Control, Genetic Disor... Date, Prenatal Care, Breast ... Breech Presentation are examp... appropriately, it is to be used ... thinking actively of welcom... baby.

Mala Bhargava of ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

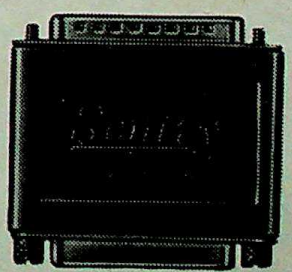


but the new *Sentry*™ Hardware Lock will blast software piracy.

Unmatched security features in a truly world-class product add up to give you software protection like never before.

- *Supports DOS / DOS Extenders / Windows 3.X, Windows NT / Windows '95 / Netware and all 16-bit and 32-bit low-level and high level languages.*

- *Compatible with a wide variety of popular printers, PCs and Notebooks.*



The deadlock for software pirates

SJAS 969718

...at **PC Expo** at Ice Skating Rink,
...from 19th - 21st July '96.
...No. : 12

WYSE SYSTEMS, S. No. 82 / 1. Plot 20, Sahakarnagar, Parvati, Pune 411009. INDIA. Ph. : 91 - 212 - 424058 / 420486. Email : ydw.sentry@wyse.sprintrpg.sprint.com.
AUTHORISED DISTRIBUTOR FOR NORTH : *Abhyudaya Enterprises, Bombay, Ph.: 022- 2661625. Fax: 022 - 2610505.* AUTHORISED DEALERS - *Civic Computers, Ahmedabad, Ph.: 079 - 417913. Fax : 079 - 6426919.* □ *ICS Software Pvt. Ltd. Bangalore, Ph.: 080 - 3331580. Fax : 080 - 6644429* □ *Vinit Electronics & Electricals Pune, Ph.: 0212 - 452139. Fax : 0212 - 455386.* □ *Guide International, Dubai, Ph.: 971 - 4 - 663383. Fax : 971 - 4 - 623133.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

What the best keyboards in India Market have in common

	MICROTEK	TVSE
Keyswitch	Cherry Germany MX1A - E1NN	Cherry Germany MX1A - E1NN
Keytops	Double Injection Imported	Double Injection Imported
Keyboard Controller	Intel	Intel
Cable	Coiled, Moulded High Quality	Coiled, Moulded High Quality
Cabinet	Sleek, Ergonomical	Sleek, Ergonomical
Workmanship	World Class	World Class
Functioning	Smooth & Gentle	Smooth & Gentle
Approvals	FCC class B U.S.A.	FCC class B U.S.A.
Warranty	2 Years	2 Years

Over 60,000 Keyboards sold by Microtek in less than one year

NOW!
MICROTEK's LONG LIFE KEYBOARDS ONLY
Rs. 1225/-
(ALL INCLUSIVE ANYWHERE IN

Mtek KEYBOARDS
BEST TECHNOLOGY AT YOUR FINGERTIPS™

FULL VALUE FOR YOUR MONEY

Mtek MICROT

OEM suppliers to :- PCL, ALTOS, Modi Olivetti, CALS, DCM, PCS, ET & T, CMC, L & T & Co

AVAILABLE AT : AMRITSAR - R.K. COMPUTER 292926. BANGALORE-MICROTEK: BOMBAY-MICROTEK : 8392971 CHANDIGARH - IBM - 605839 DELHI - PULSE SYSTEMS CHALLENGER 6435194 JALLANDHAR - SYNDICATE COMPUTER 227124. JAIPUR - EXPERT COMPUTER C.S INFOTECH - 518538. MADRAS -MICROTEK-: 8556105 NAGPUR - MAYUR COMPUTERS 535127, K.K. ERS 526150 PARWANOO-MICROTEK : 33383 PUNE - BLUE POINT POWER LINES

DEALERS ENQUIRIES WELCOME FROM UNREPRESENTED AREAS :

FAX TO : 011-5472907,5472659, 01792-33381, 044-8556105, 022-8392971.

MICROTEK SERVICE CENTERS/DEPOTS :- DELHI: 011-5475365 BOMBAY: 022 - 8392971 MADRAS: 044-8556105
BANGALORE: 080-628176/6600417 PARWANOO/CHANDIGARH : 01792-33383

Incase of any difficulty please fax to :- 011-5472907, 5472659 (Head Office), 01792-3381, 044-8556105, 080-6602143,

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tracker For Windows

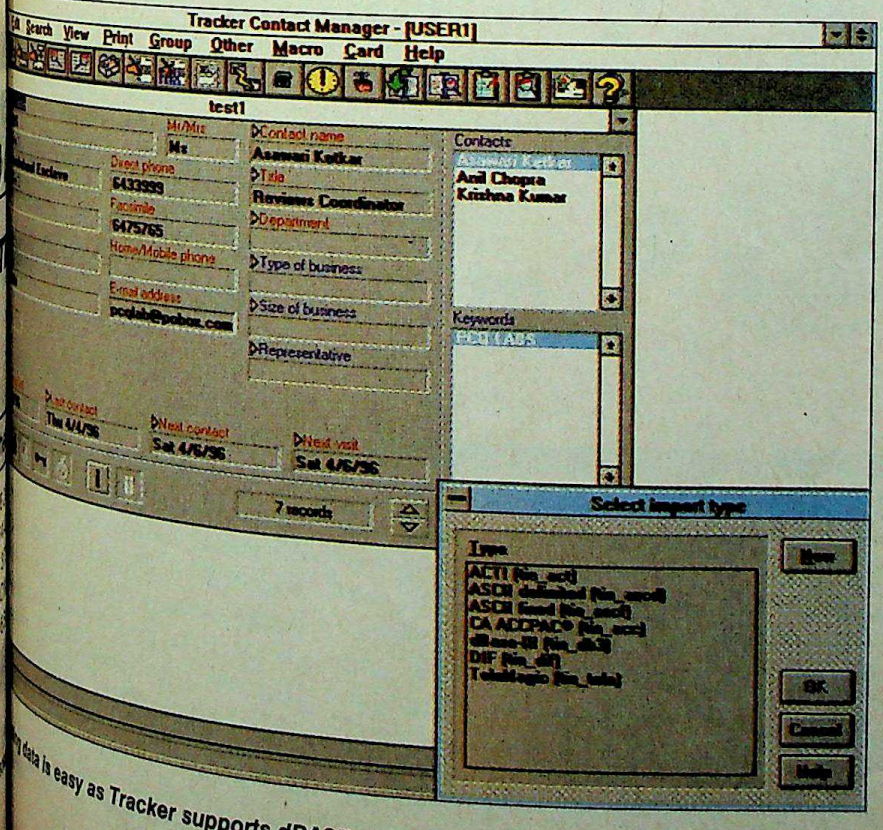
A very effective, high-end contact manager with a prohibitive pricetag

The Tracker is a huge application, and the time it takes to install is indicative of its sheer code size. It also needs a key-disk to work, which can be a pain. The Installer creates a Program Group with icons for **Contact Manager, Time Manager, Word Processor, Mail Manager, Macro Manager, Tracker Dialer, Alarm Monitor, World Clock, Mail Monitor** and **User Manager**. Although, it includes time management tools such as planners, task lists and appointment schedulers, Tracker essentially is a contact manager.

Contact Manager

This module is based on a powerful database. To create a new file, you can choose from pre-designed file structures (sales, retailing, purchasing, etc) or create your own design. The database can be either a DOS-compatible file or in a proprietary extended format with up to 75 fields, and all these can be indexed. You can also import formats such as dBASE, ACT!, and delimited ASCII into Tracker.

Records are entered and viewed as cards. For standard databases, cards are two-sided and are four-sided using the extended database option. Customizable toolbars at the top make data entry and updating easy. Records can be tagged, have keywords, and 10 notes attached to it. This is very useful for shared company databases. You update your notes after each meeting and anyone else reading these is also aware of developments. Tracker also stamps the date, time and contact name on the note, and search filters created. If you need to hide certain fields or prevent their modification, you can assign them "critical" or "protected" flags.



Entry data is easy as Tracker supports dBASE, ASCII and other data formats

THE SPECS

PRODUCT: Tracker For Windows with contact manager, word processor, mail enabled, time manager, planner appointments

REQUIRES: 386 or higher, 4 MB RAM, 5 MB disk space with Windows 3.1 or later. A Fax-modem and printer are optional.

FEATURES: Card-type database with powerful search and macro functions with multiple access rights. Is network-ready with drag and drop support.

PRICE: Rs 11,000. LAN: Rs 5,500 (1 node); Rs 26,000 (5 nodes), Rs 48,000 (10 nodes).

SUMMARY: A powerful and feature-packed PIM with a highly customizable contact database with import and export. Excellent e-mail, word processor, report writer, label designer and autodialer modules. Also includes helpful documentation. Very useful but over-priced.

MFR: Softcode Ltd, Australia

VENDOR: Datasoft Application Software, Casa Mariana, Laxman Mhatre Marg, Borivli (W), Bombay 400103 Tel: 22-8935647 Fax: 22-8942846

Reader Query Service #E0624

Word Processor

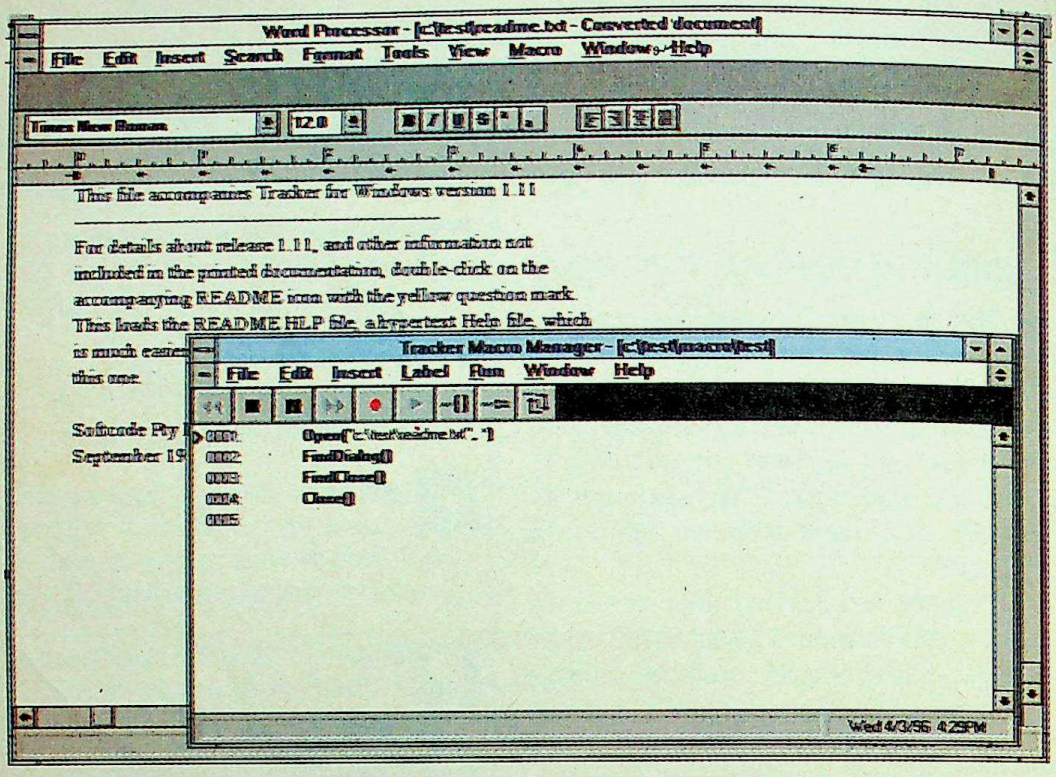
The integrated word processor is a complete application in itself. You can create reports using the QuickReport Designer and merge letters or faxes with data from the Contact Manager. It also supports graphics and has a spell checker. You can open multiple documents simultaneously, record and execute macros, and import and export Word or WordPerfect files.

Mail Manager

This module lets you communicate with other Tracker users, as well as those using MS Mail and AT&T Mail applications. Messages can be created, sent, received, printed and managed. Your messages can also use text from other Windows applications using cut, copy and paste functions from the Clipboard. You can also attach files and Contact

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri



The Macro Manager records repetitive tasks, assigns an icon and help line and inserts them into Tracker's customizable toolbars

Manager records to messages. **Mail Monitor** tracks incoming mail when Mail Manager is not running.

Macro Manager

This powerful module is not very common in PIMs and lets you assign repetitive tasks to a macro. You ... file, assign it an icon and ... description, and add it to Tra... mizable toolbar.

Time Manager

Although Tracker is a com... PIM, it has good time ma... features. These include an ap... scheduler, task list and plan... other Tracker modules, this ... fully customizable, and you ... the pop-up display attribu... preferences, and sound ... can also print out schedules ... lists. An **Alarm Monitor** ... appointments when Time Ma... active.

Accessories

Besides these modules, Tra... includes frills such as an Auto... a Global Clock. The documen... sists of four voluminous ma... are well-detailed and illustra...

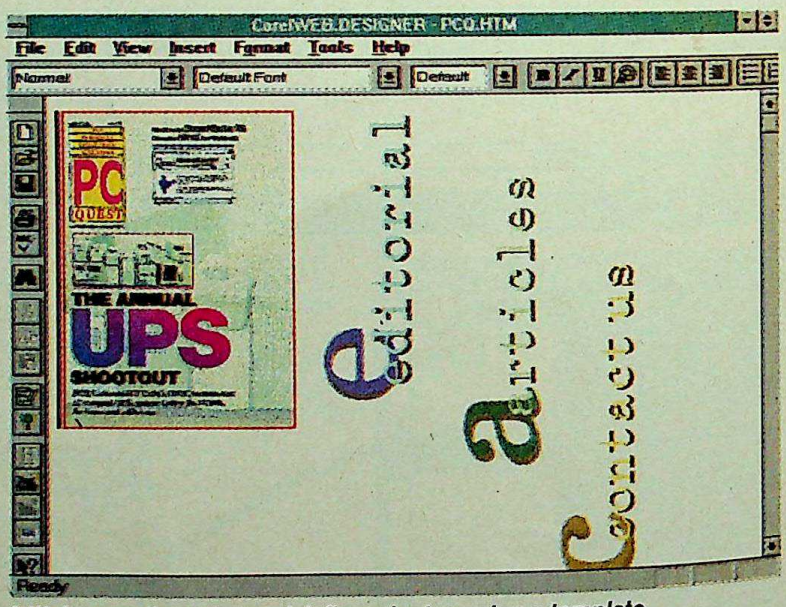
On the whole, Tracker for W... remarkably feature-packed. B... still not enough to justify the p...

Asawari Kelkar

(Continued from page 140)

your Web pages. This gives you the option of balancing the overall graphics mix to make the Web page a quick-loading one.

The images are different from those usually available at free sites on the Web. But once their use becomes popular, they will no longer be particularly useful if you want to create different, individualistic pages. However, to retain the exclusivity for your design, you can edit the images or use them more creatively.



A Web page that takes quick five minutes using a template

Viewing Gallery's images is easy and the browser lets you control the size of the thumbnails and has a slide show option for full screen viewing. You can drag and drop images to other applications, or add your own images and bookshelf, making them easier to access. For quick reference, have a look into the complete colour catalogue on the CD-ROM.

WEB.Transit is useful for anyone who prefers to use their own word processor to create text before putting it on a Web page. The text formats supported are AmiPro, MS Word (DOS and Windows), WordPerfect (DOS and Windows) and Rich Text Format (.RTF). The 13 graphic formats supported include .BMP, .PCX, .DRW and .TIF. Transit's major advantage is that you can have a single source document for publishing on both paper and the Web.

To use Transit, first ... your file's body text ... images using your ... processor. Invoke Tra... lect your file and s... format, background ... and other parameters ... want. Click on Transit ... use the browser to ... converted file. The ... transparently convert ... and .JPG formats ... Web page is ready.

For frequent Web ... signers, this Web auth... kit is quick and easy ... HTML basics before ... to the finer points of desig... authoring more customised p... soned Web designers would ... prefer a simple text editor. S... nesses that need to design and ... their own pages would probably ... cally reduce much of their ... outside help for preparing and ... ing their pages.

Mala Bhargava

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PURE, CLEAN, ORIGINAL, ORACLE®

PRESENTING AUTHORISED ORACLE TRAINING CENTRES

ORACLE Developer/2000 FORMS 4.5 & REPORTS 2.5

The very latest version of Oracle is in town - Oracle7 with Developer/2000 covering Forms 4.5 & Reports 2.5.

So, here is your chance to get an internationally acceptable qualification that would increase your market value, worldwide.

Oracle7. With course material from Oracle.

And faculty trained by Oracle.

Brought to you by SQL Star People (India) Limited, the Authorised Training Centre for Oracle in Delhi, Calcutta and Hyderabad.

Come and discover the pure, clean and original.

ORACLE7

At SQL, nowhere else.

Business Alliance Programme™

ORACLE® Authorised Training Centre

SQL PEOPLE

SQL STAR PEOPLE (INDIA) LIMITED

CALCUTTA
A7, 9th Floor,
Chatterjee International Centre,
33/A Chowringhee Road,
Calcutta-700 071.
Tel : +91-33-296582.

DELHI
2nd Floor, Andhra Association Building,
Next to Saibaba Temple,
24 & 25 Institutional Area,
Lodhi Road, New Delhi-110 003.
Tel : +91-11-4602904, 4601539
Fax : +91-11-4601597

HYDERABAD
4, Motilal Nehru Nagar, 1st Floor,
Above Mahalakshmi Motors,
Begumpet Main Road,
Hyderabad-500 016.
Tel : +91-40-849125, 846501
Fax : +91-40-816960

The hi-end of opportunity

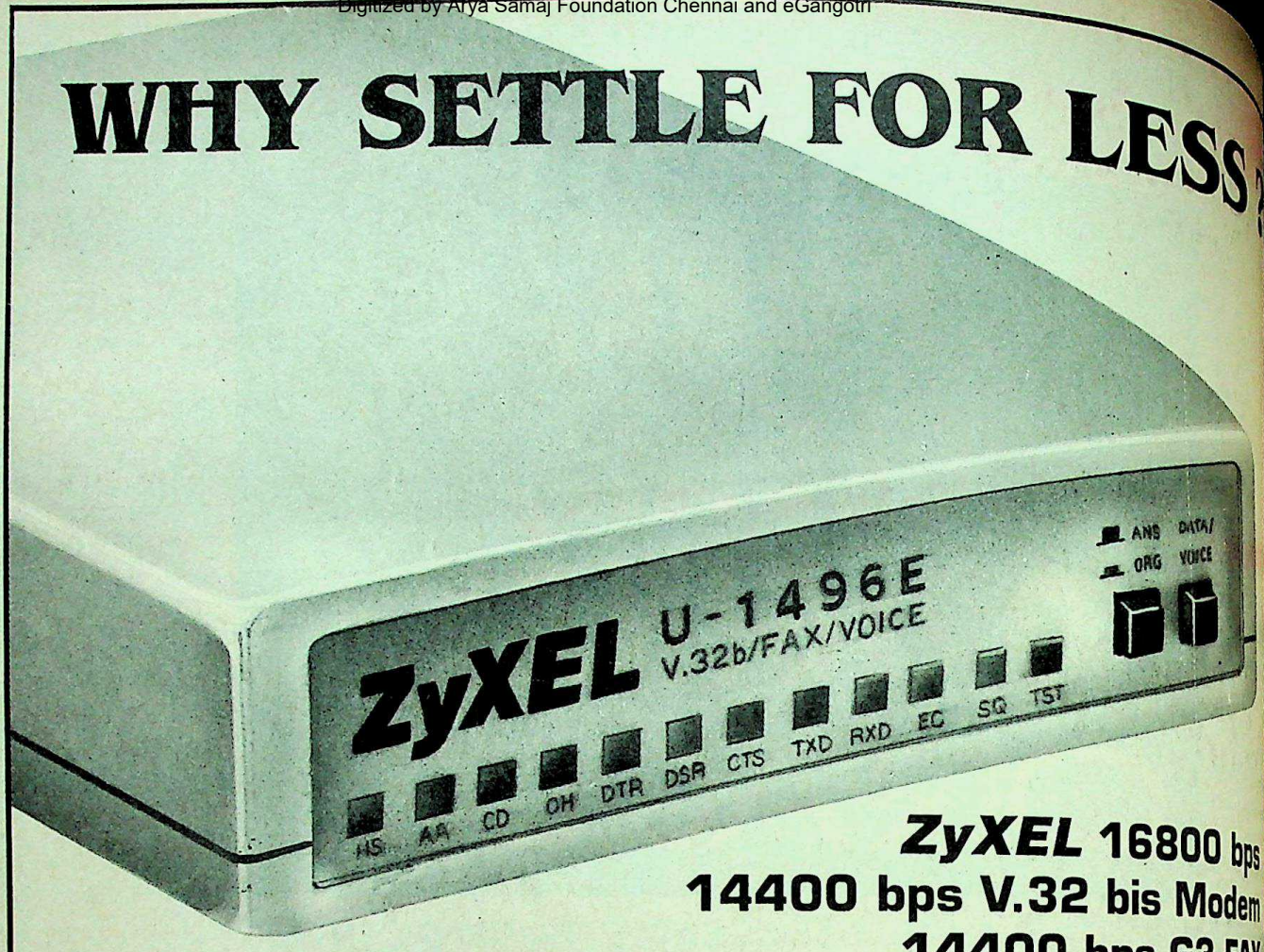
Oracle is a Registered Trademark of Oracle Corporation U S A
Oracle Developer/2000 consists of Forms 4.5, Reports 2.5, SQL Plus and Graphics

TMI/SQL/702/596

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHY SETTLE FOR LESS ?



ZyXEL 16800 bps
14400 bps V.32 bis Modem
14400 bps G3 FAX
Digitized Voice capability
Excellent for poor line conditions

EDITOR'S CHOICE 1994 PC QUEST

TEC Approved

TWO YEARS WARRANTY

PLUS MORE FEATURES :

- ***ZyXEL*** 16800 bps ultra high speed data transfer
- Automatic data / fax call detection
- Fast rate renegotiation in addition to Auto fall-forward fall-back
- Special ***ZyXEL*** mode for lines with high impulse noise
- Line condition monitoring
- V.42 bis / MNP5 data compression with upto 57600 bps throughput
- V.42/MNP4 error control
- Asynchronous or synchronous
- Advanced voice mail capability - upto 1000 voice/fax mail boxes. Fax-on-Demand & Voice Announcements

Distributed & supported by:

WANLANd

231 Keytuo Industrial Estate, Kondivita Road, Andheri (East), Mumbai - 40
Tel : (022) 8353636, 8216733.Fax: (022) 8367765, (022) 3871790.
Email: wanland@giasbm01.vsnl.net.in

ZyXEL **DEALERS :**

● **Ahmedabad :** Karnet. Tel: (079) 7475244. ● **Baroda :** KAS On-line. Tel: (0265) 34
● **Calcutta :** Pharos Infotech: Tel: (033) 4667920. Fax: (033) 4667918. ● **Indore :** 0
Computers. Tel: (0731) 533240. ● **Nagpur :** Netcom Systems. Tel: (0712) 543747.
Fax: (0712) 530497. ● **New Delhi :** Technoware Systems. Tel: (011) 6173861 / 6
Fax: (011) 6173861. ● **Trivandrum :** Manickam Communication & Sys. P.Ltd.
Tel: (0471) 462116. Fax: (0471) 462116.

DEALER INQUIRIES FROM UNREPRESENTED AREAS SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SmarTerm Enterprise Suite

A comprehensive set of TCP/IP utilities and application

The two biggest buzzwords of the 1990s are "Internet" and "Intranet". The former stands for world-wide connectivity, the latter Internet-like setup within a company. In both cases, the glue that makes it all possible is the TCP/IP protocol, and the applications that use it such as Web browsers, FTP (File Transfer Protocol) and Telnet clients.

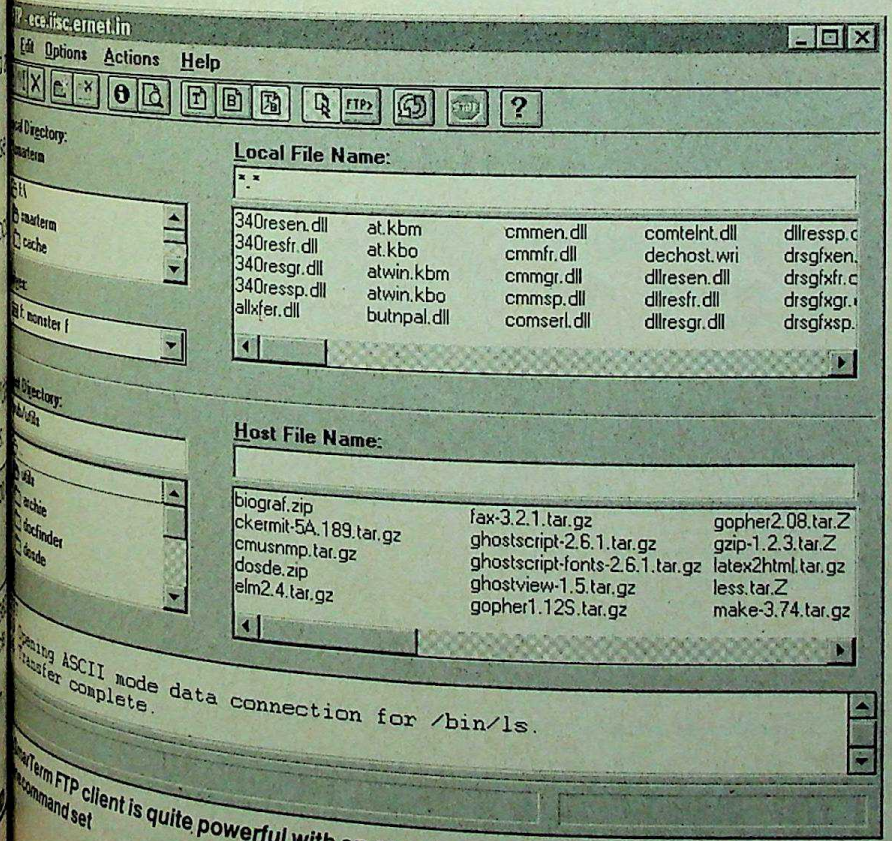
Despite several such applications available free on the Internet, many corporations are wary about trusting their work to something they haven't paid for. And with good reason—setting up and getting such applications functional can be nerve-wracking, especially for novices.

It is this segment of the market that Persoft addresses with its SmarTerm Enterprise Suite 5.0.

SmarTerm application lineup

What you get

The Suite comprises a bunch of commonly used TCP/IP applications used in virtually every corporate Internet or Intranet. These include an FTP client and server, a VT Terminal emulator for standard DEC and IBM 3270 emulations, a remote printing client and server (LPR and LPD), a Locator utility (similar to Nslookup with some additional features), a licensed copy of the Netscape Navigator, albeit an older version—1.22, and a fully functional X server to run X applications on a remote machine while interacting with the application on your Windows screen.



SmarTerm FTP client is quite powerful with an easy-to-use Windows interface to an otherwise non-command set

Installation

Installing the Suite is a breeze—provided you know what you're doing. Insert the first disk, run Setup, select the language (English, German, Spanish or French) you want, and choose the components you wish to install. Now just insert the other disks when prompted.

It is here that we had some very serious problems. During the installation, you are asked if you wish to install TCP/IP. We naturally answered "yes" and a few minutes later were *very* sorry

THE SPECS

PRODUCT: SmarTerm Enterprise Suite 5.0, a TCP/IP suite with FTP client and server, DEC and IBM terminal emulations, powerful X server and assorted utilities. Includes own TCP/IP and Netscape Navigator 1.2

REQUIRES: 486 or better, min 8 MB RAM, Windows 3.1 or later, a TCP/IP connection to the Internet or to internal network.

PRICE: Rs 26,030

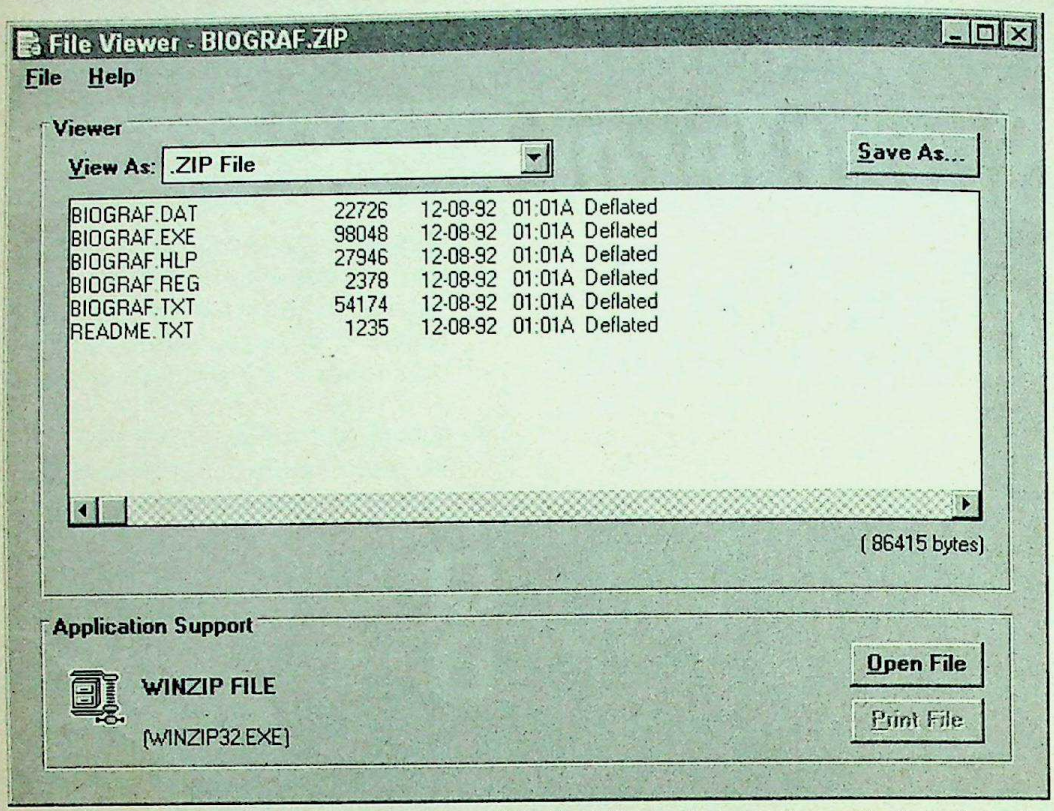
SUMMARY: A solid mix of usable TCP/IP applications that should be useful to any corporate unit that uses a TCP/IP based network or connects to the Internet. Installs easily and without trouble. However, the product is marred by a high price tag and most applications are also available in the public domain or as shareware, albeit not so slickly packaged and documented.

MFR: Persoft, USA
VENDOR: SVAM Software, 70 Janpath, New Delhi 110001. Tel: 11-3320224/4551 Fax: 11-3723266

Reader Query Service #E0634

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



The File Viewer is invoked from the SmarTerm FTP client. It can show you the contents, but needs a configured application (in this case, WinZIP) to actually access the data

we did. We were installing on a Windows 95 machine with TCP/IP installed. Everything stopped working after SmarTerm had installed itself, since this is a 16-bit suite and all the other TCP/IP applications were 32-bit, which won't work on a 16-bit TCP/IP stack. We were forced to reinstall the entire Windows 95 TCP/IP suite! The morale is—if you already have 32-bit TCP/IP installed, answer "no".

Once everything was properly setup, we quickly explored around. An extensive, multi-lingual set of manuals were just slightly obtuse, but not enough to stop the show. In fact, we rarely had to refer to the manuals at all once we got comfortable with things.

The Terminal Emulators

The first thing we tried were the VT Terminal emulators. And here we ran into a standard problem we face with many vendors who give their products for review—the copy we had been given was date-crippled—and the evaluation period had expired for both emulators. A note sent the package had asked us to set back the system date to run these components, and this is something one will never do. (As anyone who has experienced "wrong file date" errors under Windows 95 will understand why.)

Therefore, we abandoned any further attempts to try out these components, and moved on to the others, which, surprisingly, were not crippled, despite their complexity.

The Web Browser

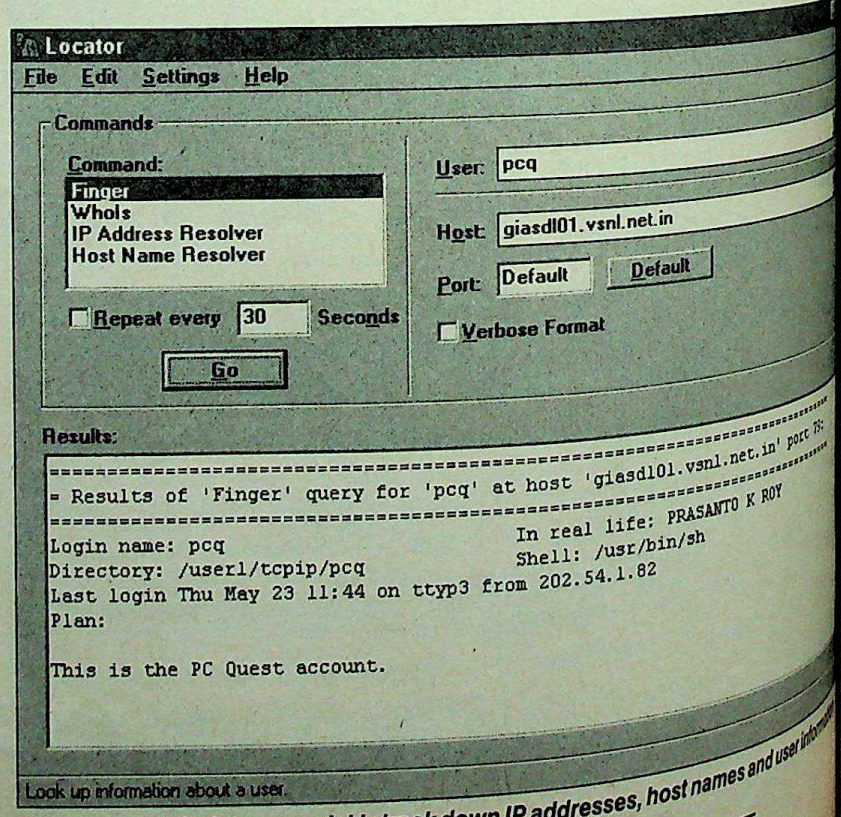
The package includes a licensed copy of Netscape Navigator 1.22, a rather out-dated version. Nothing much needs to be said as it works well and millions of Internet users who have d... it for will testify.

It is to Persoft's credit that t... included this licensed ver... Netscape, since a Web browser is ... ally the de facto front-end for ... Intranet access today.

The FTP Applications

The FTP client had a slightly ... ware-like feel, but worked fine. It ... orts drag and drop, meaning that ... connect to a site, view the files a... and simply drag the one you w... your "local" window. Transfer was ... and comparable to that of WS_FT... FTP program of choice by a large ... tion of Windows users world-w... lacks some of WS_FTP fancy ... as automatic filename translation ... is nevertheless quite usable. The ... also has the File Viewer, a useful ... to view file contents.

Also included is an FTP server ... some pretty nifty security measures. ... FTP server allows you to become a ... site reachable via the Internet ... for file transfers. We tested the ... both locally and over the Net, and ... worked very well. However, setting ... "Anonymous" account was not ... ately apparent, but that too was ... while later. The nice thing about ... server setup was that you can give ... different directory access rights.



The Locator utility lets you quickly track down IP addresses, host names and user info

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Locator

Locator is a utility with immense to anyone who has to deal with IP esses and Host names. It is a mination of finger, whois, Nslookup IPlookup services, that let you out information about a user, hostname or IP address. It is very to use and is a definite plus point ite suite.

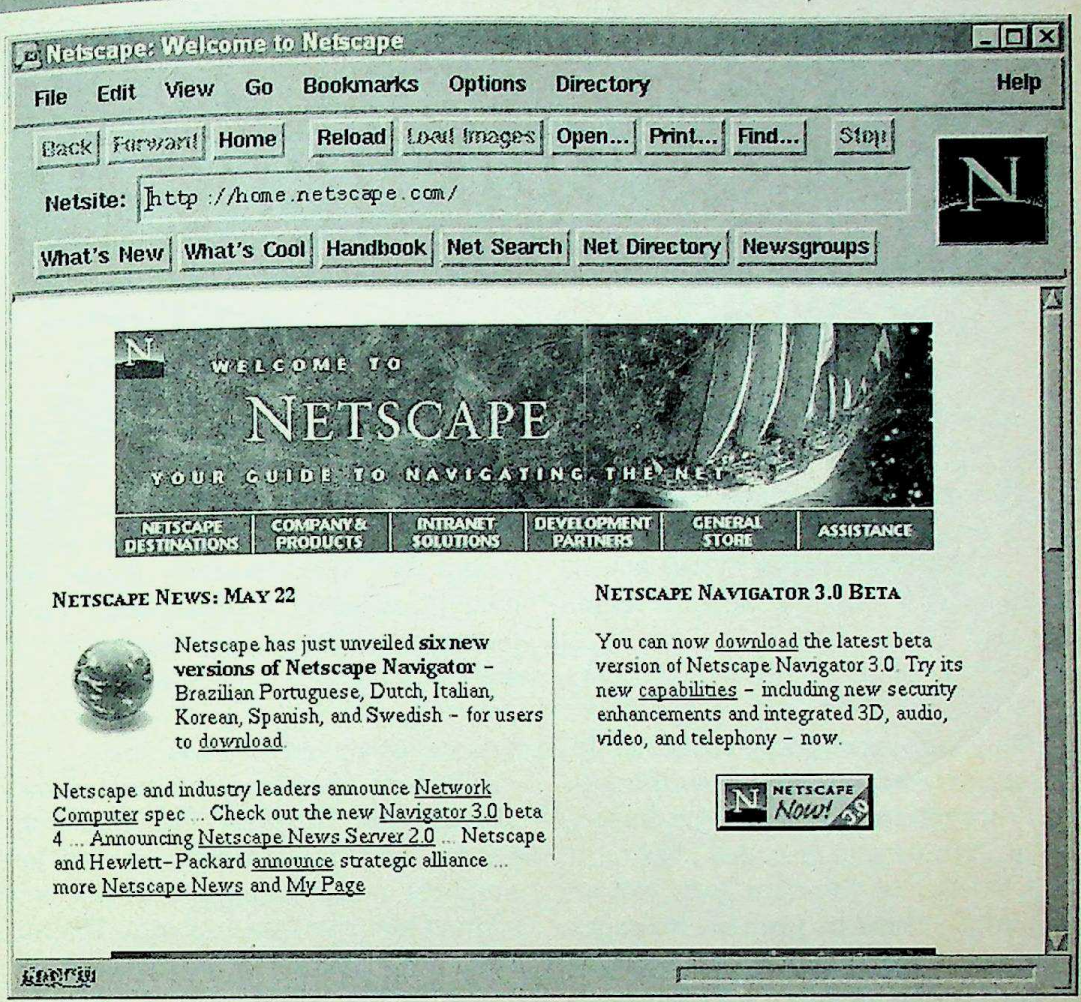
Printing Utilities

e Suite includes a remote printing r and client. The client allows you nt files on remote printers, while erver allows other people on the net/Intranet to print files on your printer. We tried both, and were a fazed initially while setting things out the manual came to our rescue. erations with heterogeneous net- s (mixes of PCs and UNIX mac- s, for example) will greatly value printing utilities.

X Server

e X server proved to be the greatest pplication. Imagine yourself con- ed to a remote server, and executing Windows app there (for example, ubiquitous XARCHIE—a program locating files on the Net). This cation requires an X server to dis- its output, and that is where the Term X server stepped in. It was a rather strange feeling to suddenly have a non-Windows like application pop up on our Windows 95 screen!

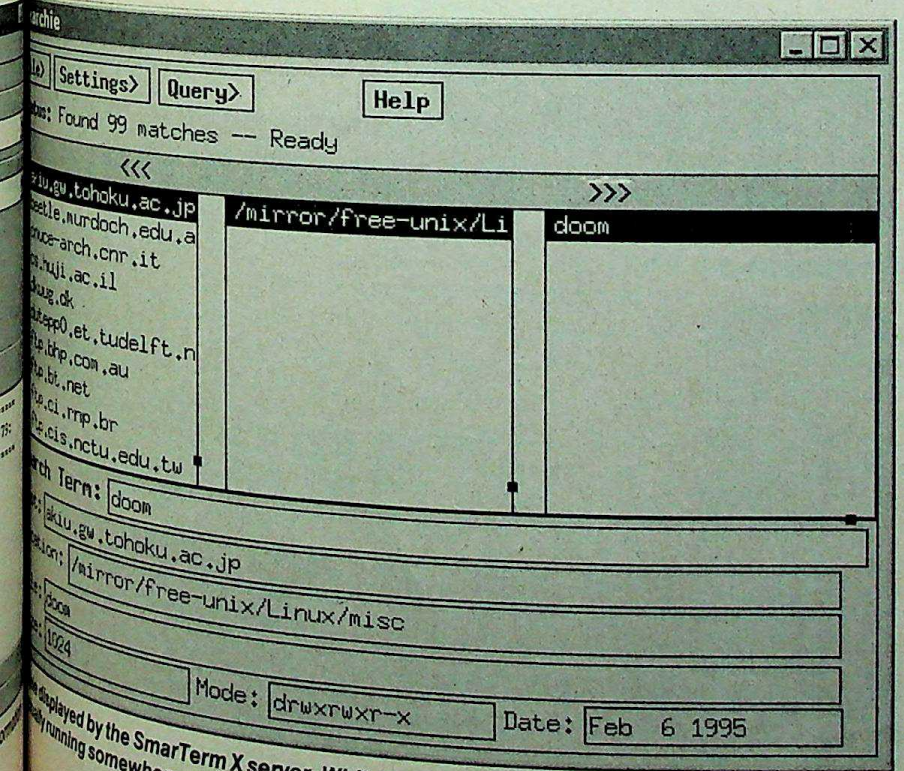
We tried this both locally and over a live Internet connection (that crawled at 4,800 bps), and were surprised to see how responsive this was! We were even able to run the UNIX version of Netscape, and have the output piped to our Windows screen!



Another X application being accessed via the Smarterm X server, this time Netscape, running at IISc, Bangalore, with the display on our Windows PC

We tried this both locally and over a live Internet connection (that crawled at 4,800 bps), and were surprised to see how responsive this was! We were even able to run the UNIX version of Netscape, and have the output piped to our Windows screen!

This has some pretty stupendous implications. For example, if you have an X-based accountancy package running on a Sun machine—locally or elsewhere in the world—you would be able to run and interact with that application using your PC.



displayed by the SmarTerm X server. While you see the output at your end, the application running somewhere on the Internet (in this case, at IISc, Bangalore)

Summary

Package pricing, as usual, leaves a lot to be desired. At Rs 26,000, it may cause many corporates to turn to freely available equivalents from the Internet. Reasonable pricing would make this much more attractive. This suite has no 32-bit components which a shame since 16-bit programs are outdated.

Functionally though, the SmarTerm Enterprise Suite represents a solid mix of usable TCP/IP applications that should find a home in just about any corporate unit that uses a TCP/IP network or connects to the Internet.

Atul Chitnis for PCQ Labs

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Almanac 2.0

A personnel information manager modelled on Lotus Organizer

PCQ Labs received a demo copy of Almanac, a Windows-based personal information manager (PIM). The version reviewed was limited to 30 entries with the Reports option disabled.

The Interface

Almanac's resemblance to Lotus Organizer is uncanny, right from the toolbar, through the date and time display, to the Planner's color-coded keys.

A sidebar on the right gives you access to the **Planner, Contact Manager, Notepad, Business Tools, Personal Record** and **Accessories**. A digital clock with date gives you the current time. However, to configure it, you need to switch to Windows Control Panel as the clock mirrors the system settings. A built-in Setup option here would have been more convenient.

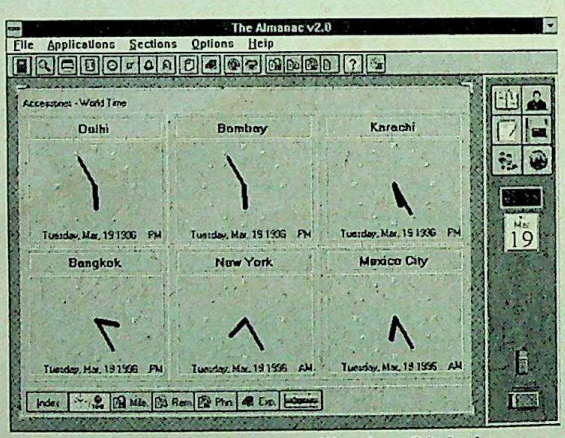
There's drag and drop support, and to dial a number, just drag it from the Phone Book and drop it on the sidebar's telephone icon. The Shredder too works the same way, and you'll probably delete items just to watch the flashing lights as it trashes stuff.

Time Manager

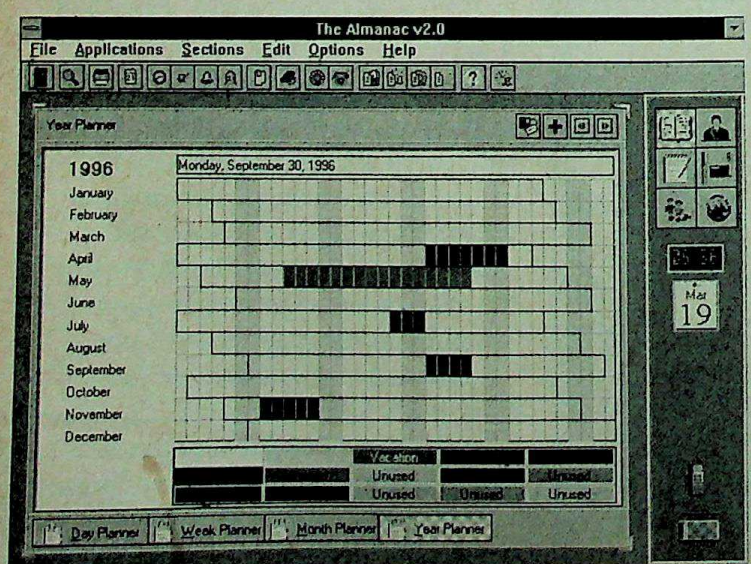
The busy or the over-worked can plan their schedules using the day, week, month and year planners. These are linked to one other, and activities marked on the year planner are reflected in the day planner.

Contact Manager

Almanac provides extensive contact management features. You can store names, addresses, telephone and fax numbers, e-mail addresses, as well as a contact history of your clients. The Address and Phone Books are auto-updated with each new entry. You can't customize Contact Manager's fields and those with business associates multiple addresses are going to miss this option.



Users with foreign clients will value Global Clock which shows the time in over 60 cities world-wide



Use different colors to mark special events in the year planner

From within Contact Manager, you can also set up appointments, reminders and to-dos. Though there's no built-in word processor, the Notepad module lets you jot down notes which you can also attach to entries in the Contact M... Notepad also allows you to class... notes into Personal, Official and ... laneous categories.

Other Accessories

Business Tools provides finan... loan amortization calculators. P... Records contains important d... as your passport, driving l... credit card numbers, and insura... tails. There's also a handy c... table with a calculator for quick ... tations.

The Global Clock lets you ... the time at 67 locations ar... world. Use the expense tracking ... to keep a tab on your daily ex... You can also generate a pho... record the time of call, telephone ... duration and status. The Re... tracks reminders set for a par... and their status. Almanac does ... data import from other PIMs or ... Most of Almanac's features are ... cient for most users, but p... will miss the lack of e-mail ... group support.

Asawari Kelkar

THE SPECS

PRODUCT: The Almanac 2.0 ... version), a Windows PIM. Requ... or better, 4 MB RAM, 5 MB disk ... SVGA color, Windows 3.1 or later

FEATURES: Contact manager ... notepad, phone dialler and log ... calculator, world time, expense ... conversion tables, and reminder ... compliant.

PRICE: Rs 3,495

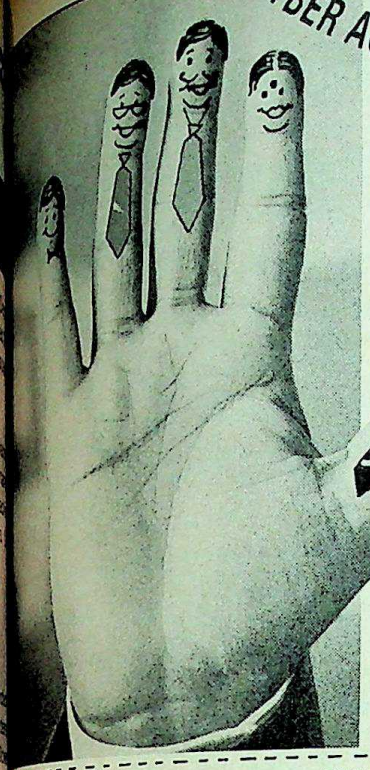
SUMMARY: A PIM with basic ... ity, meant for casual users. This ... also available as shareware, that ... entries without the Reports option ... BBSes.

MFR: Xpert Systems, 27/2, 17th ... Malleswaram, Bangalore 56001... 80-3310309 Fax: 80-2274699

Reader Query Service #5003

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



CYBER ACCOUNTANTS ON YOUR FINGER TIPS

Duckback®
presents Value 95

■ Network ready. ■ Independent of data format. ■ Customised reports built-in. ■ Virtually unlimited data volume. ■ Unlimited number of companies. ■ Cue cards, tool tips & context sensitive help. ■ Object oriented. ■ Extensive graphics. ■ Codeless.

VALUE 95

EFFORTLESS ACCOUNTING

"Watch out for an enhanced 32 BIT version of VALUE 95 in the CD ROM enclosed".

Microsoft®
SOLUTION PROVIDER

Duckback Information Systems Pvt. Ltd.
Duckback House, 4th Floor, 41, Shakespeare Sarani, Calcutta-700 017.
Phone : 240-2726, 247-1601/2/3, 247-3019 Fax : 033-247-6152 Tlx : 021-2207

*All brand and product names are registered trade marks of their respective holders.

Mileage 729

YES! WE ARE INTERESTED TO ADD VALUE TO WINDOWS 95.

Name : .....Company Name (or attach visiting card) : .....

Mailing Address : .....Phone No. (s) : .....Fax No. (s) : .....

No. of Copies : .....Rate Rs 7500/-. Total amount Rs. .....Enclosed the sum by cheque/DD No./Pay Order No.....Dated : .....

Mail to Duckback Information Systems (P) Ltd.

MOTOROLA

NETMANAGE

NET Effect

Connecting to INTERNET could've a positive effect on your business.

Instant INTERNET+ from GEBBS INDIA LTD.

A Complete INTERNET kit with a MOTOROLA Modem & NETMANAGE Internet Software

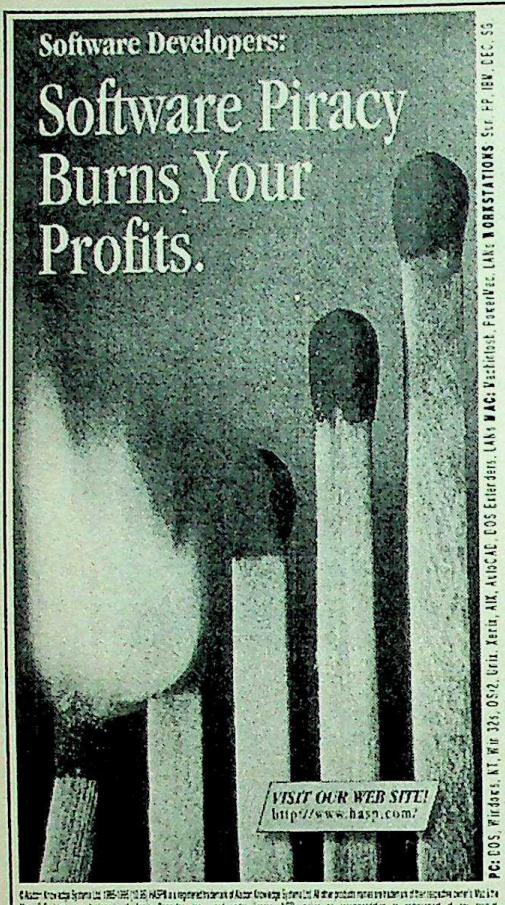
Mr. Vipul Shah
Gebbs India Limited
Gebbs House, 13th Street, MIDC, Marol, Bombay - 400 093.Tel :8362133/8351289/90. Fax : 8350209
INTERNET : gebbsbom@giasbm01.vsnl.net.in

Dealership / OEM inquiries solicited

MARS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Each year, the illegal use of software consumes nearly 50% of your potential revenues. With the flames of piracy eating away at your profits, can you afford not to protect your software?

HASP® is widely acclaimed as the world's most advanced software protection solution. Since 1984 thousands of leading developers have used nearly **two million** HASP keys to protect billions of dollars worth of software. Why? Because HASP's **ASIC (Application Specific Integrated Circuit)** security, reliability, ease-of-use led them to a simple conclusion: HASP is the most effective software protection system available.

Today, more developers are choosing HASP than any other software protection methods. To learn why, and to see how easily you can increase your revenues, call now to order your **FREE** HASP Developer's Kit.

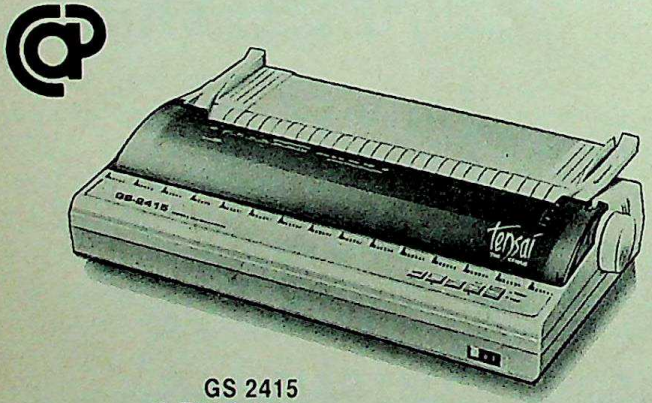
NSTL Study rates HASP as # 1 in the world

Distributed by : **SOLUTION INDIA**

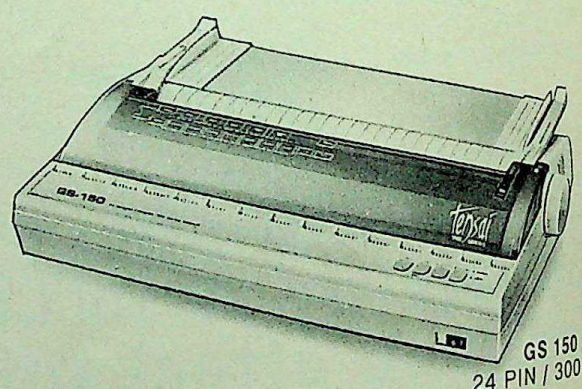
A-91, Anand Vihar, Delhi-110092
Tel.: 011-214[illegible]
Fax : 011-214[illegible]
Email: india.solu@axcess.net

1984-1994 10 YEARS

ALADDIN
The Professional's Choice



GS 2415
9 PIN / 300 cps.



GS 150
24 PIN / 300 cps.

POWERPRINTERS

Some day , all low-cost dot matrix printers will wonder why they weren't made like this.

The latest Godrej Seikosha dot-matrix printers offer a range of amazing features : 15" carriage • Most compact and sleek design • Largest number of fonts • Largest buffer size • Easy maintainance • Lowest running cost • One year warranty on print head and printers • About Rs. 1500/- less than any of its remotely comparable rivals.

When it comes to quality peripherals, you've never compromised. You've always insisted on the best. Now you must go even further — insist on *THE GENIUS*

CAP COMPUTERS & PERIPHERALS PVT. LTD.

AUTHORISED DISTRIBUTOR AND SERVICE PROVIDER OF SEIKO PRECISION INC., JAPAN AND GODREJ & BOYCE MFG. CO. LTD.

Harshad Exhibition Centre, Anand Bhawan, Bajaj Road, Vile Parle (W), Mumbai - 400 056.
Tel. : 671 8605, 671 1755 · Fax: 91-22-671 0980 E-Mail : rajesh.capcomp@axcessnet.in

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

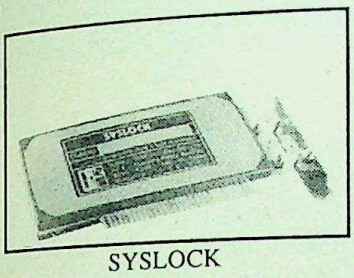
Digitized by Arya Samaj Foundation Chennai and eGangotri

You have a choice of HARDWARE LOCKS FOR COPY PROTECTION.....

Creative Data Services offers a range of Tough HARDWARE LOCKS for protecting your software from pirates. Protection schemes based on these locks are available for programs written in any language.

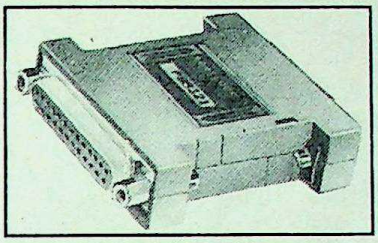
The art of making Hardware Locks and Computer security systems has been the business at Creative Data Services since past eight years and more than 5000 locks of SYSLOCK series are guarding expensive software systems from pirates and unauthorised users.

A choice of TWO models of Hardware Locks called SYSLOCK and PORTLOCK is available for protecting any of your packages from piracy.



SYSLOCK

SYSLOCK : The **SYSLOCK** is an addon board which is to be plugged into the PC mother board. A fully encapsulated electronic module operating on the high speed signals on the bus, the **SYSLOCK** offers a very high level of security.



PORTLOCK

PORTLOCK : The **PORTLOCK** gets plugged into the parallel port of PC and provides a bypass connection to printer. So the parallel port on which **PORTLOCK** operates can still be used for connecting a printer. The complex manner in which the **PORTLOCK** gets into operation and the complex sequence of responses it gives out make it an ideal security device.

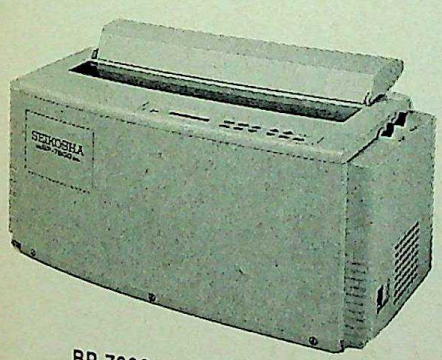
SCHEME OF USING LOCKS : Each unit of lock (**SYSLOCK or PORTLOCK**) is uniquely encrypted and supplied with software to couple a copy of your programe with the lock. Once a copy of software is coupled with a lock, the software will work ONLY when the lock is present in the system, so no one can pirate your software.

Creative Data Services
No. 4, Narayan Reddy Building, BEML Road, HAL III Stage, Bangalore-560 075. Phone/Fax : 080 - 5280292

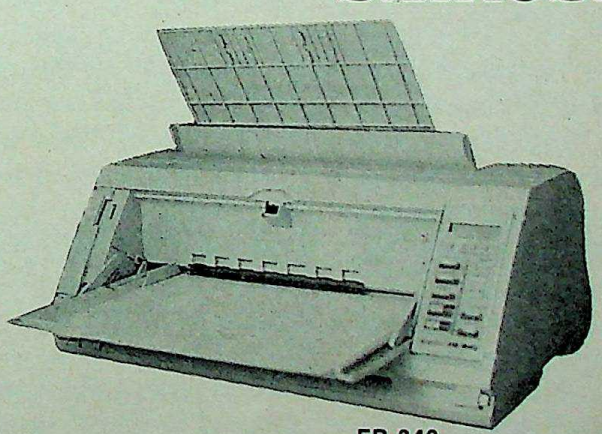
Aslo available
SYSLOCK-T for system protection
SYSLOCK-B for Banking System
SYSSWITCH Automatic ON/OFF control for PC

PROTECT YOUR SOFTWARE FROM PIRACY

SEIKOSHA



BP 7800 II
24 PIN / 780 cps.



FB 840
24 PIN / 840 cps.

SPRINTERS

Prints at speeds which make Olympic records possible.

The Seikosha high-speed range of printers have the compatibility to handle any business or industrial application. Their ability to use up to 1+8 multi-part stationery (0.8mm) is absolutely unrivalled. They print all types of barcodes. They are Novell Lab approved serial parallel printers. They are much more than great speedy printers. They are strategic solutions.

AUTHORISED DEALERS & SERVICE CENTRES :
Ahmedabad : Star Powertech, Tel.: 745 0437 / 38 • **Allahabad** : Electro Computer, Tel.: 601045 • **Bangalore:** Computer Care, Tel.: 332 6490 / 0974 • **Calcutta** : Arc Infotech, Tel.: 265016 / 475 8377 • **Delhi** : Systems & Information, Tel.: 222 6521, Siddharth Informatics, Tel.: 611 1314 / 8575 • **Jaipur** : Software Point, Tel.: 310744 • **Kanpur** : Computer Engineers, Tel.: 54 47 22 • **Madras** : Chircuits, Tel.: 483 1947 • **Miraj** : Supertech Computers, Tel.: 221221 • **Nagpur** : Supra Computer Systems, Tel.: 524279 / 538987 • **Navsari** : Enshrine Computer Service, Tel.:50103 • **Pune** : Bajaj Infotech, Tel.: 456483 • **Raipur** : National Computers, Tel.: 537170 / 537070 • **Salem** : Abhirami Computers, Tel.: 415291 • **Varanasi** : Xlnc Computers,Tel.: 333900 / 342945.

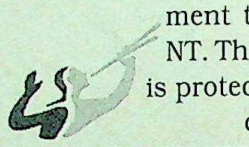
Dealership enquiries welcome

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

E-Mail from Wipro BT

Wipro in collaboration with British Telecom (BT) recently launched an e-mail service, Wipro BT Mail. Its graphical front-end, the Remote User Agent, works with DOS, Windows and UNIX. It functions through dial-up, leased lines, INET or via private network connected to the Wipro BT network.



This e-mail service includes Express Delivery, a feature that sends mail to recipients less than five minutes after a message is sent. The service is using a mainframe in Bangalore as its back-end server with a network of 64 kbps leased lines connecting this to Delhi, Bombay, Madras and Calcutta.

ISO 9000 Clinic For Software Units

The Quality Assurance Institute (India) held an "ISO 9000 Clinic for Software Units". This innovative programme provided software organizations with a diagnosis and a forecast of the effectiveness of their quality management through an open house addressed by panel of ISO 9000 experts. The clinic also presented an opportunity for organizations to undergo health and fitness checks for quality.

HP Announces Pentium Pro Server Strategy

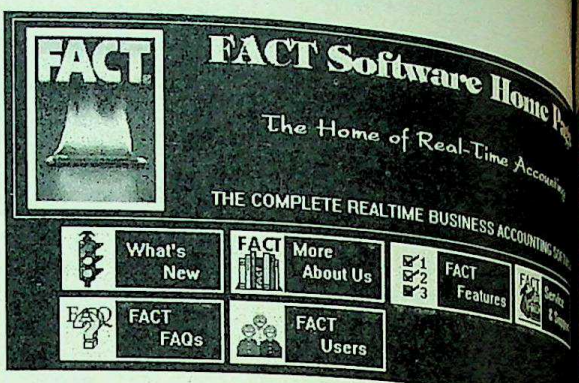
Hewlett-Packard has introduced a new line of powerful Pentium Pro NetServers for enterprise apps. The twin approach will deliver a new high-end class of PC super servers with midrange products upgradeable to Pentium Pro performance levels. The high-end systems are designed to fully utilize the Pentium Pros' potential high-powered file and printer servers. Bundled is HP Open View, a management tool, for Windows NT. The NetServer series is protected by HP's standard three year, on-site, next day limited warranty.

Scientists Access Gene Analysis Results On The Web

Silicon Graphics and the European Molecular Biology Laboratory demonstrated super-computing's power by conducting a live yeast genome analysis at Silicon Graphics' European office. During the three-day event, scientists could gain accessed to the gene analysis results using the Net via Silicon Graphics WebFORCE CHALLENGE servers with a Silicon Graphics 64-bit processor, 20 GFlop power challenge array super-computing systems and GeneQuiz, an automated genome analysis software program. The technology used for the analysis will benefit scientists working on the Human Genome Project.

FACT Now Net Enabled

Vedika Software will release an Internet-enabled version of FACT with technological support and assistance from Microsoft. FACT can be installed on any Internet server. All transactions are entered in real-time. and printouts of vouchers and invoices would be available at the location where the data was entered.. The back-end will use MS Internet Information Server and Internet Explorer will be the client. Vedika is also helping upgrade CAs and Commerce students skills through its Certified FACT Professional Course in association with IIS Infotech.



DATAPRO Education Centers Grow

DATAPRO has opened three more computer education centers in Delhi at Vikas Marg, Lajpat Nagar, Rajouri Gardens, as well in Faridabad and NOIDA. The courses conducted will cover Windows, FoxPro, Oracle, UNIX, Magic, Visual Basic, C++ and networking.

Dell-ESPL Partnership

Electronic Systems Punjab Limited (ESPL) announced its tie-up with Dell Computer Corporation. ESPL will provide total computer solutions for Dell's range of high-end PCs in India. An ESPL team will be trained by Dell on documentation, quality control and system support services to enable their company to provide high-quality systems and backup.

New C/S Softwa From Oracle

Oracle Softwar has launched Applications 10SC, a new versio C/S software. The will help corporations tify and exploit new opportunities, whil ing operating costs the enterprise. Rel based on Oracle's SmartClient architec sets new standards ibility, speed of imp tion and ease-of-use prises of more than ules that support tional business fu and includes new tions. Rel 10SC rages on Oracle's te in data warehousing velopment tools and management.

Mac OS Licen To IBM

Apple's licensi OS to IBM May, follow the Motorola-IBM agreement in Febr aimed at by offering ers more sources and The new agreeme System 7.5.X, acces land and to 16 local versions of the Mac will sub-license th puter manufactur tech Enterprises

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...gic On ...e Net

...agic Software Enter-...prises' latest release ...of its rapid applica-...tool, Magic, enables it ...the Internet. Users can ...ate templates for creat-...business applications, re-...e marketing information, ...e papers, and channel ...s, as well as version up-...es, patches and enhance-...ts via the Internet.

...aceage To Sell ...ctra UPS

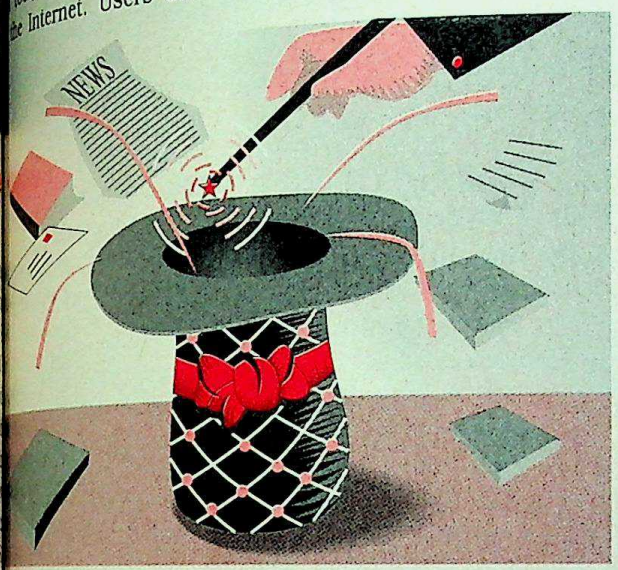
...alcutta-based Space-...age Electroffice Equip-...ments will market is ...rower, Taiwan's Electra ...ine UPS systems that ...e from 1 KVA to 120 KVA.

...ex Systems ...Distribute Boca

...ytex Systems, Cal-...cutta, will distribute ...Powertel Boca's pro-...ts. These include data ...unication, multimedia ...networking products. ...also provides hardware ...software bundles for the ...rate, consumer and ...y markets.

Mac OS Licenced To IBM

Apple's licensing its Mac OS to IBM in early May, following upon the Motorola-IBM licensing agreement in February,



is aimed at by offering customers more sources and choices. The new agreement includes System 7.5.X, access to Copland and to 16 local language versions of the Mac OS. IBM will sub-license these to computer manufacturers Datatech Enterprises and Tatung.

CISCO To Network Sterling Holiday Resorts

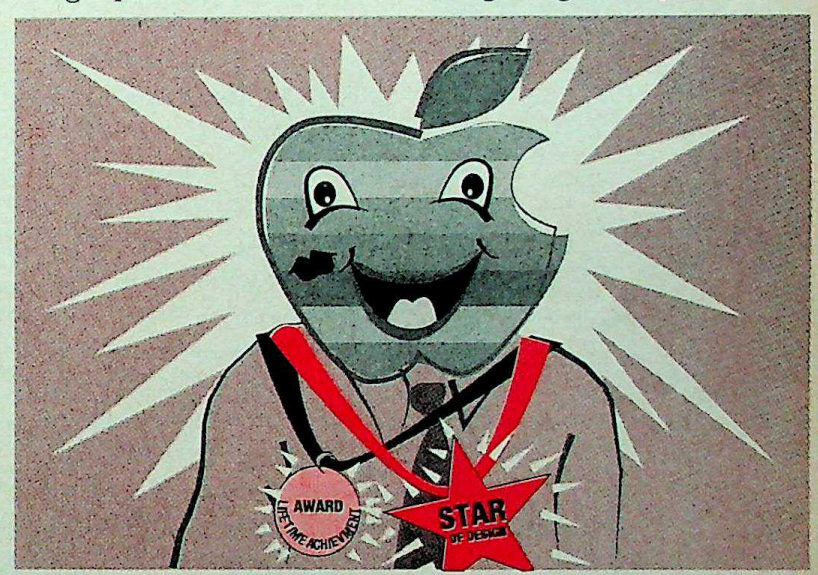
Cisco Systems (http://www.cisco.com), the leading global supplier for corporate intranets has been chosen to network Sterling Holiday Resorts' offices and resorts across India. Cisco routers will link the currently independant LANs used at Sterling's sites. This will become one of the largest private networks used in India for online transaction processing.

Apple Gets Pacific Design Award

Apple Computer was honored with a "Stars Of Design" and also awarded a Lifetime Achievement Award for Technology by the Pacific Design Center. Apple is the first technology company to receive a this prestigious Award which honors individuals or companies who have made significant contributions to the design profession.

VRML Browser Debuts At Internet World

Silicon Graphics' (SG) Cosmo Player is a VRML browser for native and Windows 95 and NT environments. It is available free at `http://vrml.sgi.com`. Cosmo implements Moving Worlds VRML 2.0, supports interactive 3D to allow user access to sites with integrated multimedia content and will make virtual showrooms, online gaming and "cyber cities".



Seminars And Exhibitions

AUGUST

Seminar on Novell's Enterprisewide Network Operating System
12-15 August 1996
Contact: Samantha Roper, MIS Training Institute, Nestor House, Playhouse Yard, London EC4V SEX. **Tel:** 44 171 779 8944 **Fax:** 44 171 779 8795.

National Seminar on Software Engineering & Its Application
24-26 August 1996
Contact: Information Technology Division, Institute Of Public Enterprise, O.U. Campus, Hyderabad 500007. **Tel:** 40-818445 **Fax:** 40-868938

OCTOBER

XII National Convention Of Electronics And Telecommunication Engineers (NACET-96)
9-11 October 1996
Contact: NACET-96, The Institution of Engineers (India), Observatory Hill, Trivandrum 695033. **Tel:** 471-62991 (O), 471-437419 (R)

Asian IT EXPO'96
The 7th Asian Information Technology Exhibition 8-11 October 1996
Contact: Adsale Exhibition Services Ltd, 14/F, Devon House, Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong. **Tel:** 852-28118897 **Fax:** 852-25165024

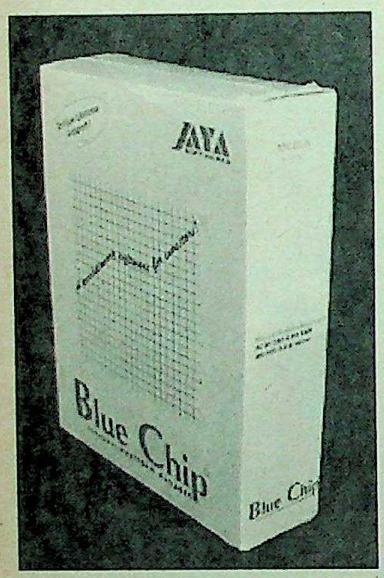
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SOFTWARE

Portfolio Management from Jaya Software

Blue Chip, a personal portfolio management app, from Jaya Software is a single or multi-user app to handle shares, debentures, fixed deposits and bonds, with a built-in FA. It has a life-time support



warranty, runs on a 386DX/4 MB RAM and is priced at Rs 7,000.

JAYA SOFTWARE, CALCUTTA
Tel: 33-2430007, 2201509
Fax: 33-2488451

Reader Query Service #E0601

Wang's AvailHSM From Tecknowledge

Tecknowledge Consultants will distribute Wang Software's AvailHSM, a hierarchical storage management software. It transfers inactive files from hard disk to tapes or optical disks. Users can easily retrieve these files when required. AvailHSM is currently available for Netware 3.x or later. A Windows NT version is expected shortly.

TECKNOWLEDGE CONSULTANTS, NEW DELHI
Tel: 11-6448353, 6413742, 6230713, 3292140
Fax: 11-3291535

Reader Query Service #E0602

GREYcells From SEMANTIX

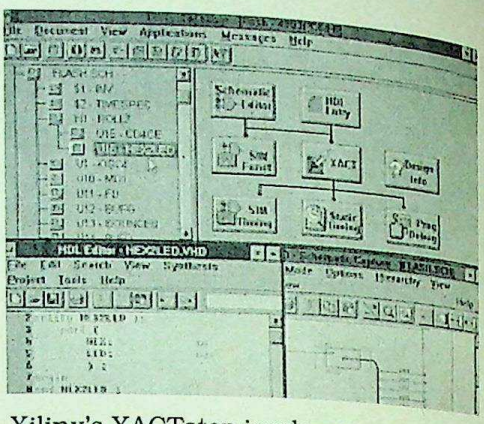
SEMANTIX Computers has launched Accounts, Spreadsheet, and Instograf under its GREY*cells* label. Accounts handles stock inventory, analysis and financial ratios, and also graphically represents analyses. Spreadsheet contains basic DTP capabilities that allow for text and figures to be included without special formatting. Instograf lets users create five different graphs, which can then be interchanged. It comes with 10 x-data labels and five legends. All three apps allow multiple fonts with 3-D graphs. Accounts costs Rs 15,000, Spreadsheet Rs 3,000 and Instograf Rs 2,000.

SEMANTIX COMPUTERS, NEW DELHI
Tel: 11-4601033

Reader Query Service #E0603

Advanced Design Software from Xilinx

Xilinx's Foundation Series are Windows-based integrated software solutions which support a wide range of CPLD and FPGA design requirements. It consists of the HDL Wizard, VHDL Synthesis and ABEL-HDL Design and provides access to industry standard Hardware Description Languages (HDLs), synthesis, schematic entry, gate level simulation, as well as to



Xilinx's XACTstep implementation tools. are a part of the Xilinx Foundation series. HDL Wizard optimizes language-based design in HDL and ABEL-HDL and has and editor, templates with common HDL functions and color-coded HDL keywords for easier text entry. VHDL Synthesis is a low-cost tool to synthesize VHDL text files and supports fully compliant IEEE 1076 code. ABEL-HDL Design, with its push-button design flow, hierarchical design entry and JEDEC file conversion, helps users migrate from PAL designs to Xilinx CPLDs and FPGAs. Prices range between $495... 5,995. Win 95 and NT versions will be launched later this year.

XILINX ASIA PACIFIC, HONG KONG
Tel: 852-24102739
Fax: 852-24947159

Reader Query Service #E0604

Indian Software Used in UK Schools

Rave Computers' SMART software package has been installed in 600 UK schools. This Windows app contains National Curriculum/Programs Of Study, Student Database and Class/Tutor Group Information as its core modules. It is used to create

teaching
new subjects
added. Re
the studen
base can
linked to a
tutor group
program or
dual study
nent, enabl
chers to
students'
A report module allow
ers to create end-of-
end-of-term reports.
on a 386DX/8 MB
MB disk space/DOS
later with Windows

RAVE COMPUTERS
Tel: 22-4928780, 494
4953160, 2041432
Fax: 22-2850606

Reader Query Service #E

Web WorkGroup Solutions From Digital

Digital's Work
Web brings
aboration to
and works on a
back-plane running
386SX/8 MB RAM.
gned for small teams
nize information by
activities, informa
and people. WorkGr
Forum for Alpha
servers supporting
UNIX or Windows
Internet or TCP/IP
connections to prov
rencing capabilities
team members and
visitors. It works
Intranet and Internet
Web browsers to
conferencing capab
offer real-time

DIGITAL EQUIPMENT
LTD, BANGALORE
Tel: 80-3374785 Fax: 8

Reader Query Service

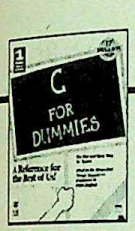
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DUMMIES:

Programming made Pleasurable not Problematic!

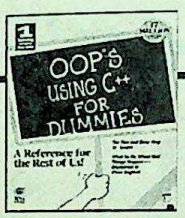
*Sometimes all the caffine in the world can't help the programmer stay awake learning a new language or technique. Lucky for them — **Dummies programming books** take complex technology to a straight forward level. All programmers catching up on a language or beginners testing the waters will master the essential skills in minimal time.*



C for Dummies

Teaches the essentials of C programming in a unique, entertaining style. Programming Deals with dreaded maths, graphically speaking, and common beginner mistakes and their avoidance.

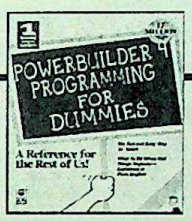
552 Page • Price: Rs. 150



OOP's Using C++ for Dummies

Written for C programmers migrating to C++. Covers Borland C++, Visual C++ and Turbo C++.

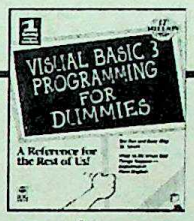
424 Page • Price: Rs. 135



Power Builder 4 Programming for Dummies

Explains everything about application development, from using the interface to making menus & windows etc., to scripting with Power Builder painter.

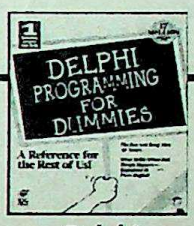
400 Page • Price: Rs. 175



Visual Basic 3 Programming for Dummies

Friendly, non-threatening reference for Visual Basic, the programming language for non-programmers. Learn to program in Visual Basic right away!

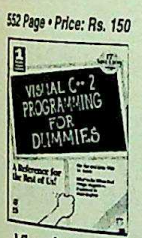
400 Page • Price: Rs. 135



Delphi Programming for Dummies

Teaches how to create and run programs and applications in Delphi. Provides clear explanation of forms, properties, and programming concepts.

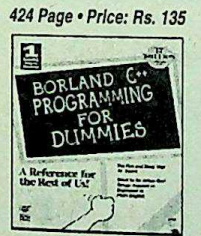
400 Page • Price: Rs. 150



Visual C++ 2 Programming for Dummies

Provides opportunity for non-programmers and programmers who have never done visual programming to learn windows programming the easy way.

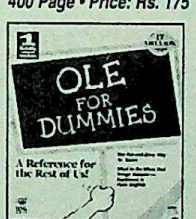
500 Page • Price: Rs. 150



Borland C++ Programming for Dummies

Learn to program quickly and painlessly even if you don't have the time or inclination to learn everything about Borland C++.

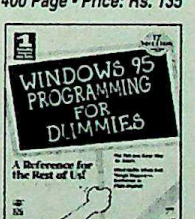
800 Page • Price: Rs. 345



OLE for Dummies

This fun and easy guide teaches you object linking and embedding skills (which help in improving functionality in applications) without getting hung up in C++ source code.

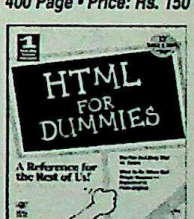
400 Page • Price: Rs. 150



Windows 95 Programming for Dummies

Shows new programmers and DOS programmers how to jump to programming for Windows. Covers all the topics of Windows programming – callbacks, messages, memory, multitasking.

400 Page • Price: Rs. 150



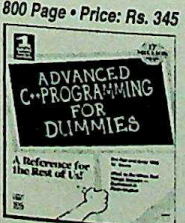
HTML for Dummies

Helps you explore features and concepts of latest known HTML. Explains how it works and how to incorporate it in your application including Windows. Provides ready-to-use web page templates and tools. Includes a disk with Source Code.

400 Page • Price: Rs. 225 (with disk)

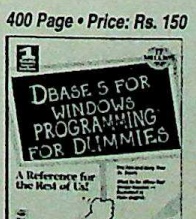
Advanced Visual Basic 4 Programming for Dummies

400 Page • Price: Rs. 225 (with disk)



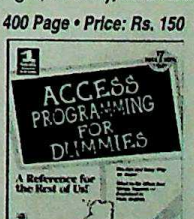
Advanced C++ Programming for Dummies

350 Page • Price: Rs. 225 (with disk)



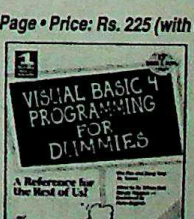
dBase 5 for Windows Programming for Dummies

400 Page • Price: Rs. 135



Access Programming for Dummies

350 Page • Price: Rs. 150



Visual Basic 4 Programming for Dummies

400 Page • Price: Rs. 150

Published in Collaboration with IDG BOOKS WORLDWIDE

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002, Ph: 3268292-93 • Fax: 011-3280567
Branches: Bangalore Ph: 2234025 Fax: 2240209 • Bombay Ph: 2010941 Fax: 2053387 • Patna Ph: 653644

DUMM AD APRIL/96/SK

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

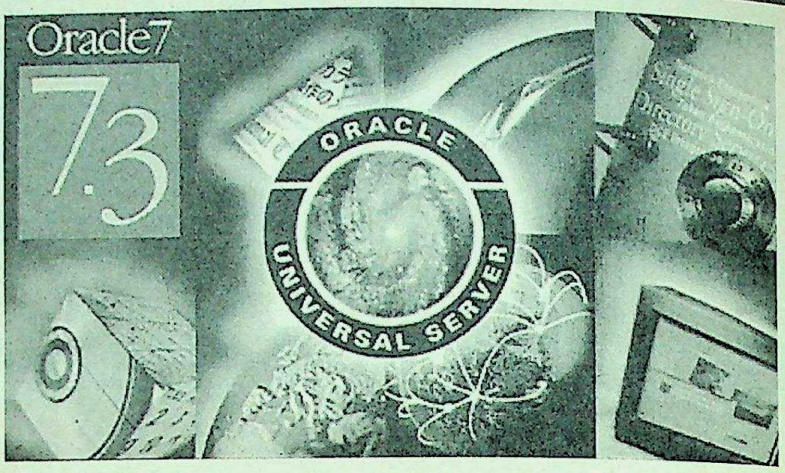
Kai's Power Tools 3 From Wipro

Kai's Power Tools (KPT) 3 comes with Lensfix, Spheroid Designer, Interform and Texture Explorer. Lensfix allows users to adjust, smudge, noise, find edges and Gaussian blur and also allows users to drag visual devices anywhere on the screen while viewing effects in real-time. Spheroid Designer lets you create up to a 1,000 3D spheres. Interform allows users to mix multiple textures and generate animation including QuickTime movies. Texture Explorer creates new textures on an infinite plane without tiling. Special effects such as page curl, seamless welder and vortex tiling allow users to control direction and intensity, while working in real time. KPT 3 has been optimized for Power Macs, Windows 95 and Windows NT and costs Rs 8,500. Registered upgrades will cost Rs 3,000.

WIPRO INFOTECH GROUP—APPLE DIVISION,
BANGALORE
Tel: 80-5588422
Fax: 80-5594032

Reader Query Service #E0607

Oracle Universal Server Comes To India



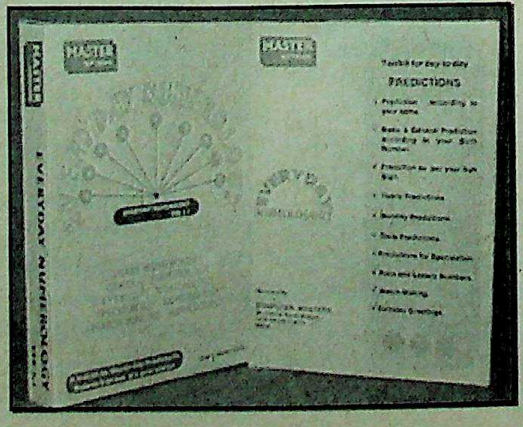
Oracle has released Universal Server Ver 7.3 in India. This is a Web-enabled, scaleable app that supports video and email. The company claims it is the first platform designed for network-centric computing, mission-critical on-line processing (OLPT), on-line analytical processing (OLAP) and data warehousing. Intranets can now make their databases accessible by users within the company as well as by visitors. Universal Server contains seven submodules that include Relational Database Ver 7, Context, Messaging and Spatial Data Options, and Enterprise Manager. Also bundled is Oracle's Web Server with unlimited licence copies of Oracle's Web Browser. The Web Server and Browser will also be made available to registered users. No price was available at press-time.

ORACLE SOFTWARE INDIA,
NEW DELHI
TEL: 11-3720569, 3720570, 3720571
FAX: 11-3720572, 6467923

Reader Query Service #E0608

Chart your Future With Everyday Numerology

Computer Masters has released Everyday Numerology based on Chiero's theory of Numerology and on Hindu Astrology. This DOS app predicts your lucky number according to your name, and also generates daily predictions. The app also contains a database to store client data and can print birthday greetings. It also displays a daily general and share prediction for existing clients. The app runs on a 286/2 MB RAM/2 MB disk space running DOS 3.3 or later and needs an 80/132-col dot-matrix printer. The complete application costs Rs 1,800 with a a limited demo for Rs 100.



COMPUTER MASTERS,
NEW DELHI
TEL: 11-4641343

Reader Query Service #E0609

Gamma UniType 1.71 Released

Gamma UniType is a tool that works with existing software translators. Designed to assist both the translator and the translation process, UniType appears as a narrow window with an on-screen keyboard layout. As you type, UniType sends text directly to the host application in use (e.g. MS Word or WordPerfect). The software takes care of all the special rules that need to be applied to complex languages. It is fully network compatible and supports 175 languages, Indian languages. UniType is compatible with Win 3.x, Win 95 and costs Rs 14,000 Volume I and Rs 5,000 Volume II. A separate Volume costs Rs 3,000. The three volumes are available as a bundle Rs 19,000.

MICROGRAPHICS,
NEW DELHI
TEL: 11-2249648
FAX: 11-2231663

Reader Query Service #E0

Indian Language DTP Solution From Taurus

Taurus Marketing launched Bharti, an Indian language DTP software compatible with most Windows apps. It's provides an interface between its collection Indian language fonts the keyboard layouts and host app. Its Indian language fonts are based on InScript Phonetic/Standard Remington layout. Bharti free is a Symbol font with 15 fonts that include dingbats for religion, and national figures. The software supports laser matrix and inkjet printers runs on a 286/2 MB running Windows with Type Manager. The Devanagari versions costs Rs 3,000 the Gujarati version Rs 4,000 and the multi-lingual version Rs 20,000. To is offering a 25 percent count to education institutions.

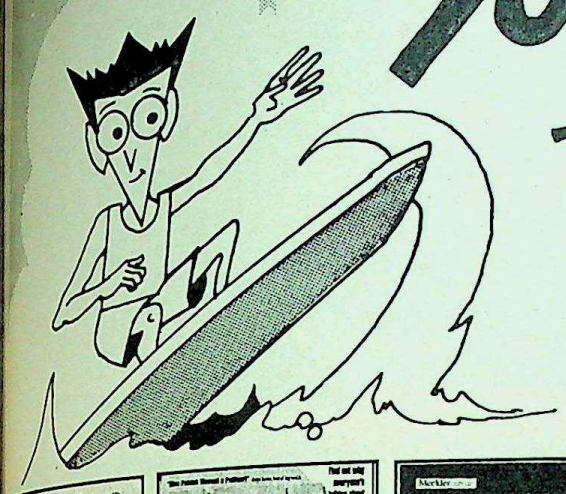
TAURUS MARKETING
NEW DELHI
TEL: 11-7100384, 721
FAX: 11-7217751

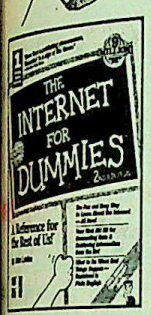
Reader Query Service #E0

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SURF the NET the FUN & EASY WAY!





THE INTERNET FOR DUMMIES

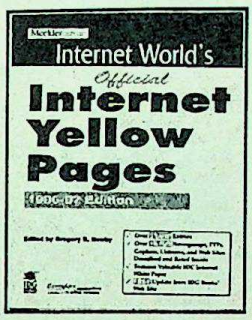
Goes into the details of the Internet, existing connectivity options, getting connected, and information you can get. Offers the basics of e-mail, mailing lists, and network news, ways of browsing what's available on the Net.

Pages: 384 • Price Rs. 150

FREE STUFF FROM THE INTERNET

Good news for bargain hunters and free-loaders. Jam-packed with incredible free offers from Microsoft, NASA, Uncle Sam, Apple Computer, and hundreds more. Amazing free stuff for your home, business, computer, lifestyle, hobbies, and more.

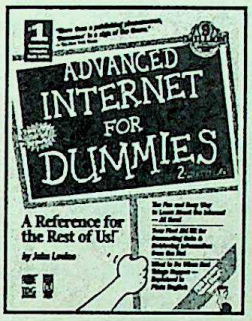
Pages: 459 • Price Rs. 195



OFFICIAL INTERNET YELLOW PAGES

A one-stop Net resource with integrated print directory, with listings and description in 1200 subject areas. Features include FTP sites for retrieving software from a remote site for downloading to your computer.

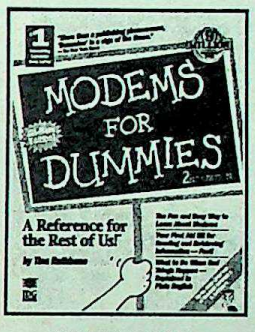
Pages: 700 • Price Rs. 450



ADVANCED INTERNET FOR DUMMIES

Companion to The Internet For Dummies. Covers tips and tricks that the earlier edition had left out. Has stuff on getting the most out of the Internet with the least effort and more on tools such as Gopher, Archie, WAIS, and World Wide Web.

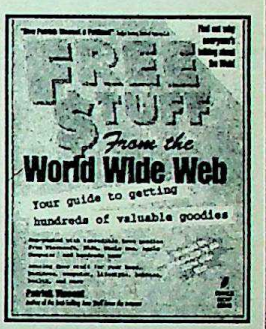
Pages: 390 • Price Rs. 150



MODEMS FOR DUMMIES

Shows DOS, Windows, and Mac users how to choose, install, and use modems and modem software with lots of tips for Internet access. Maximize modem benefits like e-mail, downloading and sending files, and faxing.

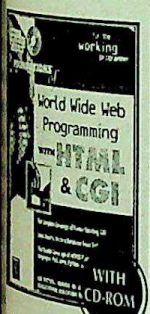
Pages: 463 • Price Rs. 150



FREE $TUFF FROM THE WORLD WIDE WEB

Jam-packed with incredible free goodies from Microsoft, NASA, Uncle Sam, Apple Computer, and hundreds more for your home, business, computer, lifestyle, hobbies, health, and more. Includes an introduction to the World Wide Web.

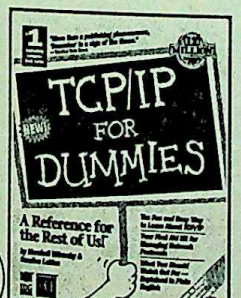
Pages: 475 • Price Rs. 195



FOUNDATIONS OF WWW PROGRAMMING WITH HTML & CGI

Create high-quality, interactive Web services that support complex user interactions. Includes CGI development, tips on location-aware CGI responses from the Internet including WAIS & index-ing tools, forms & activity design tools, & Web-ify-ing tools.

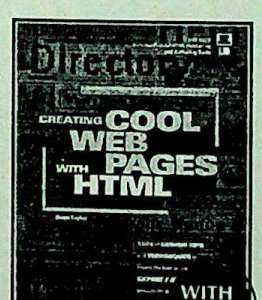
Pages: 648 • Price Rs. 450



TCP/IP FOR DUMMIES

First-aid kit for managing network protocols. Explains various concepts and intricacies of TCP/IP in an easy manner. Covers protocols for networks connected to the Internet and dis-connected networks. Delves into bridges, routers, gateways and routing policy.

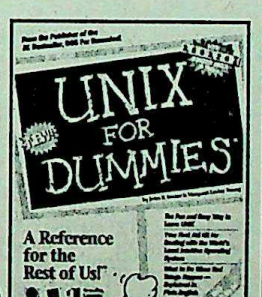
Pages: 400 • Price Rs. 175



CREATING COOL WEB PAGES WITH HTML

Provides step-by-step introduction to HTML with real-world HTML examples, important design principles, and marketing tips on creating cool Web pages that get noticed.

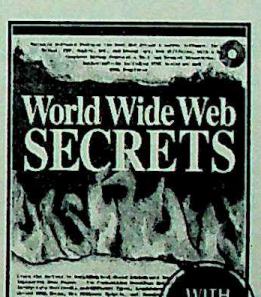
Pages: 288 • Price Rs. 195



UNIX FOR DUMMIES

Covers all major versions, including Linux, Berkley UNIX, System V, System V Release 4, SunOS, and Solaris. Finally, a friendly guide for this hostile system. Become a UNIX wizard in no time.

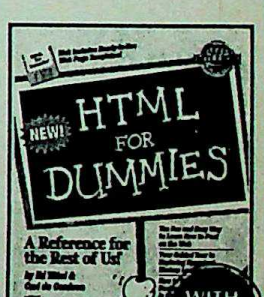
Pages: 368 • Price Rs. 135



WORLD WIDE WEB SECRETS

The best Web access and server software plus utilities to untangle the Web on CD like NetCruiser, America Online, Prodigy & Windows httpd. Covers CGI and Windows 95. Get expert World Wide Web Tips and Techniques. Find the most recent HTML authoring tools.

Pages: 710 • Price Rs. 295 (Book only) Rs. 450 (with CD-ROM



HTML FOR DUMMIES

Teaches the fundamentals and how to master HTML commands and syntax to build Web pages and develop a Net presence. Use HTML effectively with text, images, video and audio and give your pages impact and flair.

Pages: 444 • Price Rs. 225

Published in collaboration with **IDG Books Worldwide, USA**

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Phones: 3268292-93, 3279900 • Fax: 91-3260518
Branches: • BANGALORE-560 027 Ph: 2234025 Fax: 080-2240209 • BOMBAY-400 002 Ph: 2010941 Fax: 022-2053387 • PATNA-800 004 Ph: 653644

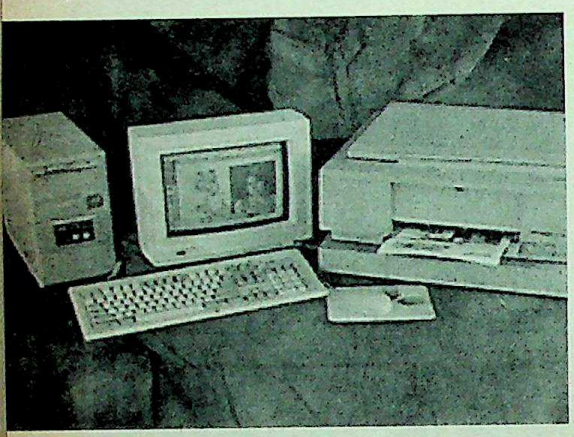
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HARDWARE

Olivetti Color Copiers

Olivetti's bubble jet-based Color Copier 8000 is a 400 dpi scanner-printer-cum-copier rolled into one. It supports 16.7 million colors with a zoom ratio between 50..200 percent. The model also



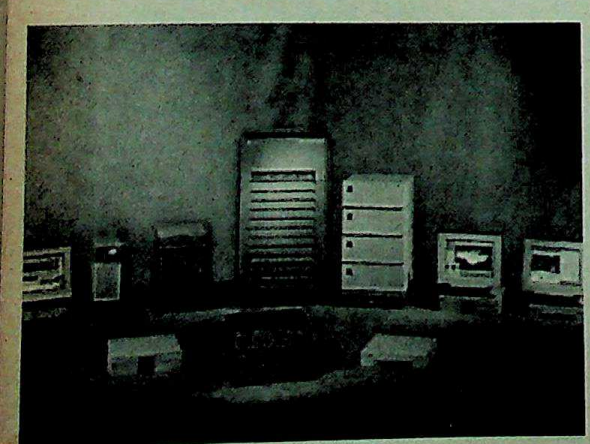
contains an editor, a film projector, with video adapter and a color controller.

JAYANTI BUSINESS MACHINES, MUMBAI
Tel: 22-8214678, 8214679, 8214680
Fax: 22-8214684, 8214685

Reader Query Service #E0612

New 64-bit Sun UltraSPARC Servers

Sun Microsystems has introduced seven new WorkGroup Servers under the Enterprise series. All use the new 64-bit UltraSPARC microprocessor. They are targeted at organizations with data processing needs Web services, Internet commerce, work-flow communications and database management. The Gigaplane bus used allows a data transfer of 2.5 Gbps. The machines are scaleable and use hot swappable disks. The range begins with a single CPU and 1 GB RAM and goes to 30 UltraSPARC processors, 30 GB RAM with 15 I/O channels of 200 Mbpseach.



SUN MICROSYSTEMS, BANGALORE
Tel: 80-5599595
Fax: 80-5599598

Reader Query Service #E0613

New Net And ATM Products from Cisco

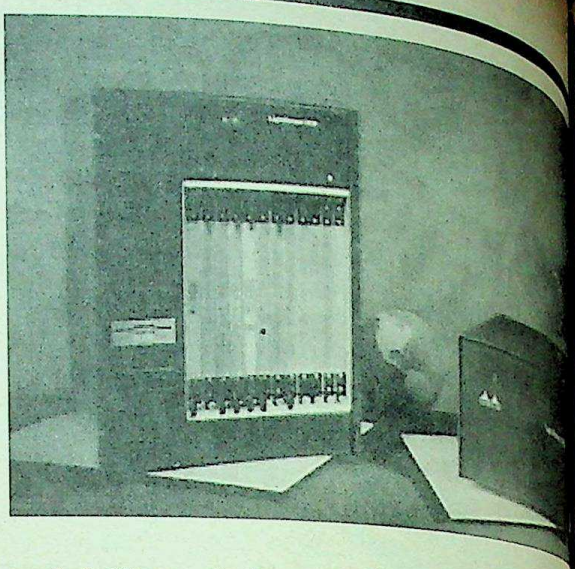
Cisco Systems has launched a wide range of Internet, remote-access servers, dial-up products and services for Net providers, remote commuters and home users. These include the AS5200 Universal Access Server, the CiscoSecure Server, CiscoRemote Plus, CiscoRemote Lite and three remote node ISDN products. The AS5200 Universal Access Server allows non- and ISDN-compliant telephone lines on the same chassis. This permits Net providers to accommodate traditional needs while supporting ISDN. The CiscoSecure Server is the first integrated, centralized security server that lets network administrators and service providers centralize network access, security and billing. It has also launched the LightStream 1010, the first standards compliant ATM switch. This conforms to emerging ATM Forum standards, including ABR and PNNI and features the CiscoWorks Network Management software that allows users to manage their networks from a single platform.

CISCO SYSTEMS, NEW DELHI
Tel: 11-6881234/119, 6117688
Fax: 11-6886833/119

Reader Query Service #E0614

Data/Fax/Voice Modem From Vintron

Vintron's external 14400 bps V.32 BIS data/fax/voice modem is easy to set up and use. It supports auto fall-back and fall-forward which allows it to match on-line speeds to ensure reliable communication with other modems. It comes bundled with fax/data communication software and a [illegible] warranty.

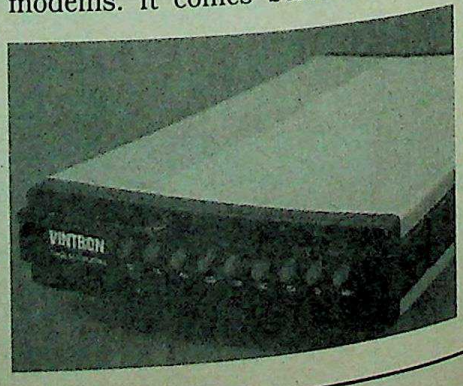


VINTRON ELECTRONICS, NEW DELHI
Tel: 11-6814520, 6813680
Fax: 11-6810460

Reader Query Service #E[illegible]

Modi Xerox's Color Copier-cum-Printer

Modi Xerox's [illegible] Regal 5790 is a copier-cum-printer provides an accurate sentation of subtle and is compatible with Macs and UNIX networks color imaging technology highlights light colors patterns and wide spaces between the dots. The print speed pages per minute color and 36 ppm in chrome. The three-tray have a total capacity sheets and the 5790 switches from empty trays, enabling print runs without stopping for



MODI XEROX, DELHI
Tel: 11-643454[illegible]
Fax: 11-644[illegible]

Reader Query Service #E0[illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

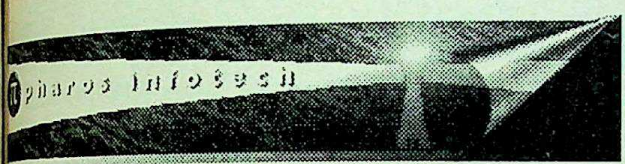
Digitized by Arya Samaj Foundation Chennai and eGangotri

Publish your own **Web Page** on the internet for **Rs. 450 per month**

You can also get your Custom Domain as in www.custom_domain.com

Visit some Sites Hosted by us:

- The Maharashtra Udyog Bhawan @ "http://www.maharashtra.com/"
- Computer Book Shop, India @ "http://www.cb-india.com/"
- The Livewire BBS, Calcutta @ "http://www.lwbbs.com/"
- Don Bosco School, Calcutta @ "http://www.lwbbs.com/dbpc/"
- ITC, Ltd. @ "http://www.itc-india.com/"



Home Page: "http://www.lwbbs.com/pharos.html"
E-Mail: webmaster@lwbbs.com

PHAROS INFOTECH
113 Southern Avenue, 3rd Floor, Calcutta 700 029
TEL: +91 (33) 4667920 ❄ FAX: +91 (33) 4667915
Contact for UUCP Mail

PHAROS INFOTECH ALSO RUNS THE LIVEWIRE BBS! CALCUTTA +91 (33) 4667915

HAVE YOUR HEAD EXAMINED

Take a closer look at your dot matrix printer. Is the printhead showing signs of wearing out ? Have it remanufactured at Transdot in quick time with great savings. Afterall, in India only Transdot has the technology for genuine remanufacture. Do remanufacture. It is a sane decision.

A TRANSMATIC GROUP COMPANY

TRANSDOT
PIONEERS IN REMANUFACTURING

THERE IS A FUTURE IN REMANUFACTURING.
BE A SUCCESSFUL TRANSDOT DEALER.
WRITE FOR DETAILS

TRANSDOT ELECTRONICS LTD
Golf Links Road, Kowdiar, Trivandrum-695 041, India.
Tel: 91-0471-435608, 433805 Fax: 91-0471-432465
Tlx: 435-6217 TSL IN

WARNING ONLY UNTAMPERED PRINTHEADS WILL BE ACCEPTED FOR REMANUFACTURE

AGENCY LIST: ● AHEMEDABAD - V Repair, Ph: 405620 ● ALLAHABAD - Grain Technologies, Ph: 602982 ● AMBALA CANNT.-Computer Touch, Ph.643285 ● BANGALORE - Digitelek Systems & Services, Ph: 332445; Trinity Business Systems, Ph: 645324, 648029 ● BARODA - Patwa Kinarivala Electronics, Ph: 326588 ● BELGAUM-Microlink, Ph: 21482 ● BOMBAY - Calibre Computers & Technologies, Ph: 4235804, Up-Time Computer Services Pvt. Ltd., Ph:4925111, Video-Tech, Ph:3826357 ● COIMBATORE - Krisan Office Automations, Ph:210747 ● DEHRADUN - Elegance, Ph: 651881 ● DELHI - Data Marketing Computers, Ph.5798831 ● DEHRADUN - Elegance, Ph:651881 ● GANDHIDHAM - Pars Building Products, Ph: 23824, 22138 ● GOA - Foundation Business Systems, Ponda, Ph: 312491 - Vedic Computers, Ph: 320928 ● HUBLI-DHARWAR - Kidiyoor Electronics, Ph: 347504 ● HYDERABAD/SECUNDERABAD - Orient Business Services Pvt. Ltd.,Ph:847478 ● JALANDHAR CITY- Primrose Ade, Ph:252975, 255249 ● KHOTA- Shabhit, Ph.28282 ● KOCHI- Sighnetics Systems , Ph.345290 ● LUCKNOW - Interlinks Marketing Service, Ph:283391,273368 ● LUDHIANA - Secant Ph.456891 ● MADRAS - VRP Electronics, Ph: 8274827, 8283663 ● MANIPAL - Dot-Care, Ph: 26863 ● NAGERCOIL - Comp-tech Engineers, Ph:24703 ● NAGPUR - Key Computers, Ph: 536263 AGENCY: Microplus Computers, Ph: 38913● PUNE - Shree Engineering Corpn., Ph: 334533 ● RAJKOT - Wiptech Peripherals, Ph: 84443 ● SATNA - Shubham Computers, Ph: 47277 ● SURAT - Data Systems, Ph: 411019 ● TIRUCHIRAPALLI - Sri Vadhana Enterprises, Ph: 432892 ● TRICHUR -IRS Systems & Services, Ph-25560 ●TRIVANDRUM - Blue-Jay Global, Ph: 441753 ● UDAIPUR- Apex Computers, Ph.28330 ● VIJAYAWADA - Andhra Computer Services, Ph: 431707

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Win NT NetServer From HP Is Quad-Capable

AP's quad-capable NetServer 5/166 LS for Windows NT comes with one to four Pentium processors with dual PCI peer buses. Hot-swap drives and ECU memory are standard. A dual-channel disk-array controller, included in some models, supports fast and wide SCSI drives in various disk arrays. It also includes other fault-tolerant features to ensure data integrity and system up-time. An HP NetServer with a single processor costs Rs 931,000.

HEWLETT-PACKARD,
NEW DELHI
Tel: 11-6472311, 6472328
Fax: 11-6461117

Reader Query Service #E0617

Software For Testing Electric Motors

Manan Enterprises has developed an app to evaluate electric motor performance using no-load and locked rotor tests. The software evaluates the complete performance, and informs users about the current drawn, input and output power, slip, speed, efficiency, starting and pullout torque, and the power factor at load points between 25.. 100 percent. The app can be used by motor manufacturers and industries with their own winding and testing facilities, especially those load test facility. It works on a 286/2 MB RAM and costs Rs 4,990.

MANAN ENTERPRISES,
AHMEDABAD
Tel: 79-490338 Fax: 79493406

Reader Query Service #E0606

Fast Indian Scanner Displayed at CeBIT'96

Widecome, a export-oriented unit at NOIDA, has developed the SLC-436, a fast wide-format scanner, also exhibited at CeBIT '96. It's single-line contact scanner overcomes the problems associated with staggered CCD cameras. The SLC-436 has a throughput of two inches/second and can scan and save an E-sized document as a compressed file on disk in under 32 seconds.

WIDECOME FAX AND
PLOTTERS, NOIDA
Tel: 85-39075
Fax: 85-67590

Reader Query Service #E0615

ADDRESSES

Cisco Systems
Suite 119, Hyatt Regency Hotel,
Bhikaji Cama Place,
Ring Road,
New Delhi 110066
Tel: 11-6881234/119, 6117688
Fax: 11-6886833/119

Digital Equipment India Ltd,
Digital Park,
92 Industrial Suburb,
II Stage Yeshwanthpur,
Bangalore 560022
Tel: 80-3374785
Fax: 80-3374601

Hewlett-Packard India Ltd,
Paharpur Business Center,
21 Nehru Place,
New Delhi 110019
Tel: 11-6472311, 6472328
Fax: 11-6461117

Jaya Software
Cooke & Kelvey Bldg,
2nd Floor,
Old Court House Street,
Calcutta 700001
Tel: 33-2430007, 2201509
Fax: 33-2488451
E-mail:
softwre.jaya@axcess.net.in

Jayanti Business Machines,
JEM Complex,
Opp Cigarette Factory,
Chakala, Sahar Road,
Andheri East
Mumbai 400069
Tel: 22-8214678/79/80/81/82
Fax: 22-8214684/85

Manan Enterprises
D-704, Samrajya, Memnagar,
Ahmedabad 380052
Tel: 79-490338
Fax: 79-493406

Micrographics
E- 5/30 , Krishan Nagar
Delhi-110051.
Tel: 11-2249648
Fax: 011-2231663

Modi Olivetti Ltd.
D-4,Okhla Phase-I
New Delhi 110020
Tel: 11-6814544
Fax: 11-6813292

Modi Xerox Limited,
Hemkunt Tower,
98 Nehru Place,
New Delhi 110019
Tel: 11-6434544,
Fax: 11-6444221

Oracle Software India Ltd
10th Floor,
Dr Gopal Das Bhavan
28 Barakhamba Road
New Delhi 110001
Tel: 11-3720569-71
Fax: 11-3720572, 6467923

Rave Computers Pvt Ltd,
25-B, TV Industrial Estate,
SK Ahira Marg, Worli,
Mumbai 400018
Tel: 22-4928780, 4948402,
4953160, 2041432
Fax: 22-2850606

SEMANTIX Computers
242 Defence Colony Flyover
Market, New Delhi
Tel: 11-4601033

Sun Microsystems
Intercontinental Operations
India Liaison Office
11th Floor, Du Parc Trinity,
17 MG Road
Bangalore 560001
Tel: 80-5599595
Fax: 80-5599598

Tecknowledge Consultancy
A-87 Malviya Nagar,
New Delhi 110017
Tel: 11-6448353, 6410742,
6230713, 3292140
Fax: 11-3291535

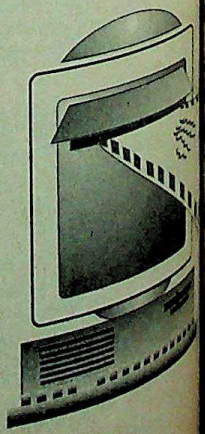
Taurus Marketing Pvt Ltd
101/12, Onkar Nagar-B
Tri Nagar
Delhi 110035
Tel: 11-7100384, 7212552
Fax: 11-7217751

Vintron Electronics Ltd.
F-34, Okhla Industrial Area
Phase-I,
New Delhi 110020
Tel: 11-6814520, 6811552,
6813680
Fax: 11-6810460

Widecome Fax and Plotters
1821, Brahmaputra Apts
Sector 29 Noida 201303
Tel: 85-39075
Fax: 85-67590

Wipro Infotech Group—
Division,
88 MG Road,
Bangalore 560001
Tel: 80-5588422
Fax: 80-5594032

Xilinx Asia Pacific
Unit No 2308/2319,
Tower 1, Metroplaza,
Hing Fong Road,
Kwai Fong,
NT Hong Kong
Tel: 852-24102739
Fax: 852-24947159



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

Dear Reader,

PC QUEST is back with another exciting CD-ROM featuring the Internet!

However, on account of the involved process in bringing you the CD-ROM, PC QUEST June '96 issue has reached you late. We hope you would bear with us for this delay.

And, in case you happen to receive a damaged CD-ROM, please send in the damaged disk with your complete postal address for a free replacement.

Happy reading,

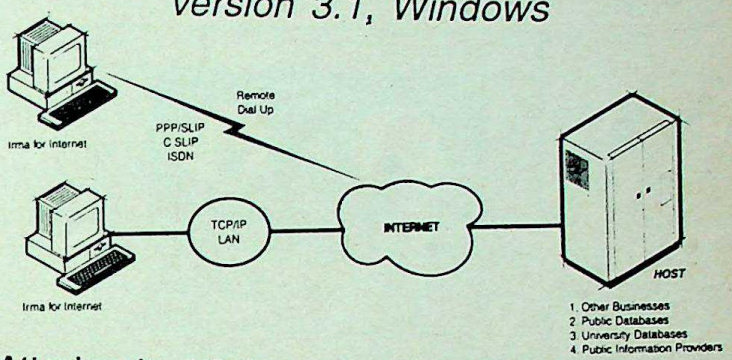
shok Gupta
anager - Circulation
ber Media (India) Ltd.
-74, Panchsheel Enclave
w Delhi 110 017.

Connectivity Guide Series II

THE COMPLETE INTERNET SOFTWARE SUITE FOR BUSINESS

IRMA for Internet

version 3.1, Windows



Attachmate (USA) is the sixth largest PC Software company in the world. It delivers integrated solutions with an award-winning host-access product line to address your needs for remote access, Software management, collaborative group ware and software for the internet. In short, no company is better positioned to improve productivity, reduce complexity and lower the cost of using, managing & supporting enterprise-wide information systems.

Attachmate has packed IRMA for internet with exceptional value to help you leverage this fast, efficient method of conducting business and acquiring crucial information.

SURF SECURE WITH THE TOP-RATED WEB BROWSER

Netscape Navigator makes IRMA for Internet the easy way to go. It includes features you'll use daily such as the Web, a news reader, and Internet search utilities. IRMA for Internet comes ready to go for network and remote connectivity to the Internet. Its Web browser enables secure transactions through encryption and authentication security for electronic commerce. Confidential information such as credit card members and financial records are protected over the Internet.Authentication is a process whereby the receiver of an electronic message can be certain of the identity of the sender, and / or the integrity of the message received.

Configurable for your needs and your environment.

Communications for private network and remote users.

Features : The Total Internet Solution

- Easy installation
- Connectivity Support
- Netscape Secure Web Browser
- Fully Compatible
- TCP Client Server with drag and drop file manager

For more information on Connectivity Guide Series
Contact India Distributors

C-TEL INFOTECH LTD.

Attachmate™

Division

C-TEL INFOTECH LTD.

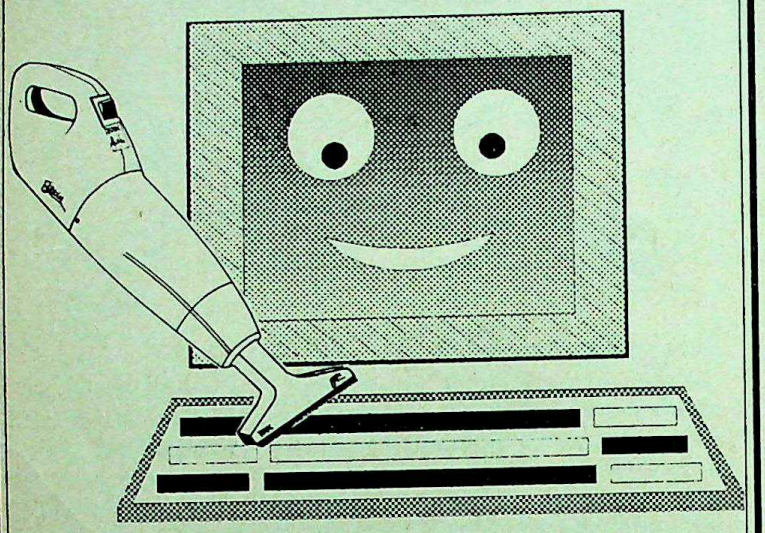
38, Kamer Building, 5th Floor, Cawasji Patel Street,
Fort, Bombay - 400 001. INDIA
Phone : 2022386, 2022066 • Fax : (022) 2021362

DEALERSHIP ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LET YOUR COMPUTER
TAKE A
DUST FREE BREATH



AS SEEN ON T.V.

NUVAC Gobbler THE VACUUM CLEANER

WITH THE **3P** ADVANTAGE

★ **POWER** ★ **PRICE** ★ **PERFORMANCE**

NUVAC GOBBLER ENTERS DEEP INTO EVERY NOOK AND CORNER OF THE COMPUTER SYSTEM TO REMOVE DANGEROUS DUST MITES ON THE *KEYBOARD, MOTHER BOARD, MONITOR, HARD DISK ETC.* TO

- SAVE DATA CORRUPTION AS THERE IS 80% DATA CORRUPTION DUE TO DUST
- REDUCE COMPUTER BREAKDOWN
- IMPROVE EFFICIENCY
- CREATE A DUST FREE ENVIRONMENT

THE MOST POWERFUL HAND HELD VACUUM CLEANER.

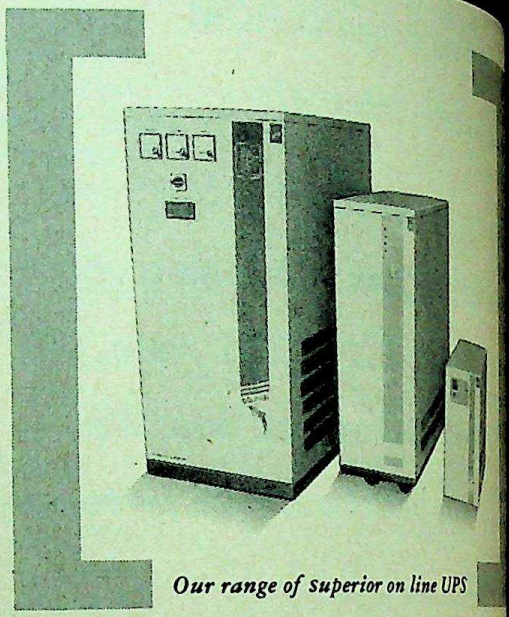
It puts the power of floor model in the palm of your HAND

SUPER DOMESTIC DUST BUSTERS PVT. LTD.
REGD. OFFICE : A-104, NEW FRIENDS COLONY, NEW DELHI-110065

Regional Sales & Service Centres

DELHI (S) . 6476544, DELHI (W) : 5623525, DELHI (E) : 2411522. JABALPUR : 331923, BHOPAL : 566543 INDORE : 207, Shri Nagar Main, RAIPUR : 537293, 510847, ROORKEE: 73893, CALCUTTA : 279168, COIMBATORE: 444038, SILIGURI : 431041, JAIPUR : 314357, JODHPUR : 48085, NAGPUR : 538683, NASIK : 570044, AMRAVATI : Above Bombay Saloon, Rukhmini Nagar, AKOLA : 3, Sushila Appt. Tapadia Nagar, CHANDRAPUR : Ist Floor, Renuka Appts., Collectors Banglow, Civil Lines, AURANGABAD : 58, Seven Hills Colony, PUNE : 359655, THANE: 5426631, BOMBAY :8394444, MADRAS 4349091, DELHI : 5798505 CHANDIGARH : 775133, 706722, FARIDABAD : 212007, MORADABAD : AL-65, Din Dayal Colony, SHAHJAHANPUR : 25275, BAREILLY: 477028, AGRA : 39/B/103, Sanjay Palace

After being in Power *for* 40 years, *we understand* the current situation *best.*



Our range of superior on line UPS

Being the industry leaders for over 40 years, our solutions are [illegible] powerful when it comes to power disturbances.
Don't let blackouts, brownouts, surges and spikes eliminate precious data. Or worse still, destroy your expensive hardware.
The advanced range of UPS Systems backed by the trusted Kirloskar Electric name and the technical knowhow of Toshiba Corporation, Japan, ensures 100% protection from all power aberrations.
What is more, the extensive and intensive care of our customer sales and service network will ensure that you are never in the [illegible]

KIRLOSKAR ELECTRIC
An ISO 9001 Company

Manufacrured at: Unit-IV, Belavadi Industrial Area, Mysore.Tel: 402540-43, Fax: (0821)402266, 402008

Branches: Delhi: Ph. 6445469, Kanpur: 217020, Meerut: 560053, Ludhiana: 360403, Calcutta: 2428201, Guwahati: 548736, Bhubaneswar: 406538, Ranchi: Jamshedpur: 426116, Patna: 261393, Bombay: 4925638, Nagpur: 336182, Aurangabad: 33524, Ahmedabad: 448960, Surat: 687920, Bhopal: 324236, Indore: 430750, Jabalpur: 323351, Madras: 8521424, Coimbatore: 372637, Hyderabad: 311281, Vizag: 547086, Bangalore: 2234022. Belgaum: [illegible]
Dealers / Re-sellers: Delhi: Indian Digital Equipments Ph: 6462271 Ludhiana: Equipments Ph: 457557, Rajesh Electronics Ph: 33938, Jaipur: Concept Ph: 428572, Calcutta: Automation India Ph: 721392, Bhubaneswar: Electronics Ph: 414522, Bombay: Control Technics Ph: 8832859, Ameya Sales Ph: Garnet Technology Inc. Ph: 4143415, Nagpur: Debashu Sales Ph: 532655, Cressent Beta Consultancy Ph: 552318, Indore: Das Agencies Ph: 316138, Madras: Ph: 460285, Jabalpur: Computer Land Ph: 316138, Trichi: Essen Electronics Ph: 5229420, Kewal Enterprises Ph: 8282946, Coimbatore: Alpha Numeric Ph: Cochin: Koluthra Systems Ph: 362477, Coimbatore: Cyber Systems Ph: 625468, Marksman Marketing Co., Hyderabad: Cyber Systems Ph: 315673, Bangalore: Kirloskar Ph: 233483, Jawab Electronics Ph: 3329746, Savan Technology Pvt. Ltd. Ph: 332082, 2583, 7422, Computer Care Ph: 2282350, Goa: Kamath Engineers Ph: [illegible]
Belgaum: J.V. Electronics Ph: 428350, Goa: Kamath Engineers Ph: [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

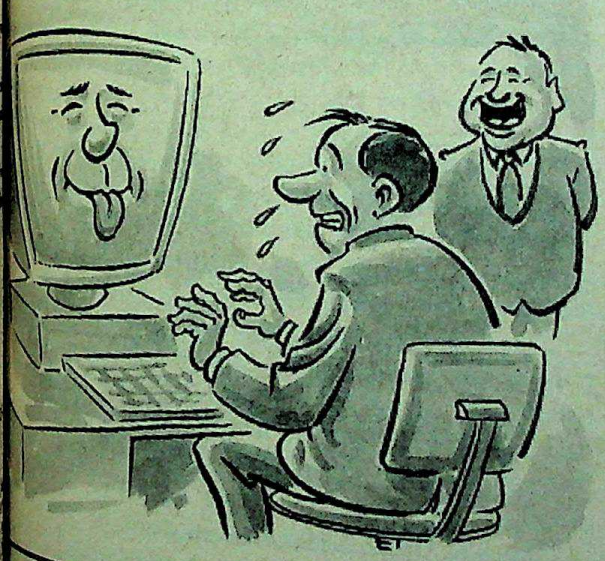
Digitized by Arya Samaj Foundation Chennai and eGangotri

Net PC Faces Bumps On The Road

Oracle's Larry Ellison hyped his favorite subject, the $500 network computer, in his keynote address at the Internet World Show, San Jose. But within hours, Intel CEO Craig Barrett disagreed, and felt that users preferred high-end PCs as "the $500 network computer is not going to be an interactive product. You can't do audio, video, and interactivity on a $500 network computer."

The first network computers, using the ARM microprocessor, will be available in September. If priced at $300, these could outsell PCs in the school and home markets. They could even be supplied free to consumers by companies that benefit financially from Internet sales of products and services. The OS will have multiple windows or pull down menus, but will occupy only 300 kB and applications will be accessed from a remote server.

Ellison also demonstrated a RISC-based Net PC with 8 MB RAM running Netscape's Navigator with word processing, spreadsheet, email, scheduling and fax applications. But Barrett's dismissal appeared a harbinger of Ellison's troubles. During the demo, the NET PC logged Ellison off twice before he could finish explaining the unit's instruction manual. And he had trouble navigating a spreadsheet.



Big Names Line Up Behind Ellison's NC

Larry Ellison's campaign to replace low-end PCs with even lower-end network computers (NCs) marked its beginning with special effects at a press conference in San Francisco. The special effects came in the form of executives from Apple, IBM, Sun Microsystems, and Oracle Communications who joined Ellison on stage to show their wholehearted support for Oracle's proposed set of industry standards. Apple and IBM officials promised their first NCs would hit the market before year-end.

After announcing that nearly 70 companies had signed up to produce NC products and services, Ellison said the endorsement by Apple, IBM, Sun and Netscape "put the icing on the cake" and will ensure systems and software houses will commit to the NC market. "The NC is something everyone can afford and everyone can understand how to use," Ellison said.

IBM showed off several prototype models of NC devices that may go into production before the end of the year. Ellison said a wide range of NC devices—ranging from smart cellular phones to low-cost data-entry terminals for office workers—will soon be available to consumers.

To qualify as an NC, a device must be able to access the Net's graphic-rich World Wide Web using well-established communications protocols and be able to run software written in Sun's new Java programming language. That proposed standard is so broad, however, it includes almost any devices connecting to the Internet, including most PCs.

A Pippin Machine At Last

Larry Ellison may have been be beating the drum for network appliances these past nine months, the first company to benefit from the hype surrounding the idea of $500 network computers may be struggling Apple Computer, as the company's Japanese partner Bandai launched its Pippin@World "information appliance".

Bandai, a company best known as the manufacturer of Mighty Morphin Power Ranger action figure toys, has designed the $599 machine around Apple's Pippin technology. It will be in stores this September and allows users to surf the Net and perform other computer and entertainment functions.

The system plugs into a TV set. It resembles a small VCR with a keyboard. It plays CD-ROMs and connects to the Internet through a modem. Owners would pay $24.95 a month for Internet access through the Pippin.

Bandai started selling a version of Pippin called "Atmark" in Japan two months ago. But Bandai is pushing Pippin as more than just a tool for surfing the Web. The company is scrambling to convince software publishers to convert existing CD-ROM titles to run on the Pippin—a technically simple task for CD-ROMs designed for Apple's Macintosh personal computer.

Cyberspace Entrepreneurs Land Behind Bars

Robert and Carleen Thomas of Silicon Valley may have been among the first to serve a prison term for figuring out a way to make illicit money in cyberspace.

Thomas and his wife, who are already serving a three-year term in a Tennessee prison for selling pornography over the Internet received another two-year sentence in a federal court on a related child pornography charge. Thomas, often referred

CC-0. Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

to as the "Marguis de Cyberspace" had pleaded guilty to a charge of selling pornographic material to undercover FBI agents over the Internet.

The Thomasses operated an electronic bulletin board with subscribers from every corner of the world downloading pornographic images against a monthly subscription fee. At their peak, the Thomasses earned $30,000 a month. So popular was their service they had no less than 48 telephone lines leading into their home in Milpitas to keep up with demand.

Robert Thomas told US District Court Judge Bruce Jenkins the scheme began as just another computer enthusiast. "I was just going by what already was out there. As to right or wrong, I didn't know."

Federal authorities in Memphis connected to Thomas' Amateur Action BBS in 1994 and copied a series of photos involving men and women engaging in sex acts with animals. The case broke legal ground because it was the first prosecution filed in the locale where the materials were received rather than where they originated.

CompuServe Moves To The Net

After the demise of Prodigy, Microsoft Network, AT&T's Interchange, and Apple's e-World, CompuServe announced it too is getting out of the proprietary on-line service business and re-invent itself on the Internet.

That leaves only America Online (AOL) with a paid subscription on-line service, and its recent success makes it highly unlikely to follow its competitors to the Web anytime soon.

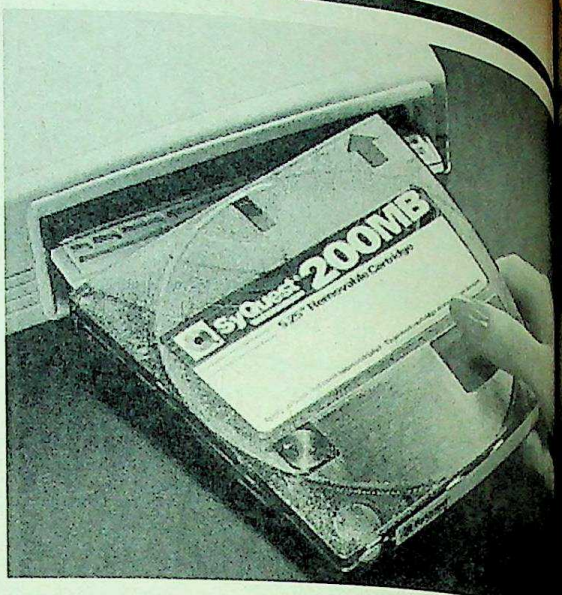
CompuServe said it has decided to rewrite and reformat its entire information database so it can be accessed on the Net. Instead of signing up for a monthly fee, any user world-wide with access to the Internet can access CompuServe services, providing he or she has a way to pay the toll the company plans to charge for getting in.

CompuServe executives said their decision was motivated by the relentless growth of the Internet and the potential of opening its data resources to tens of millions of potential users.

CompuServe is the world's second-largest consumer on-line service with more than 4 million subscribers worldwide, and the largest to date to admit it cannot compete against the rapidly growing Web. AOL, however, has maintained that its proprietary model would continue to be attractive to consumers. AOL's continued success is due in part to the Internet and Web access it provides to its 6 million subscribers.

Syquest Hit Further By Competition

Problem-plagued Syquest Technology of Fremont in Silicon Valley, which makes the Syquest removable hard drives, reported a $51-million quarterly loss, causing the firm's board of directors to appoint a new chairman and other top officers. Sales slumped from $77 million to $47



million. Company officials conceded that the trou severely drained the company's cash supply from a

Syed Iftikar, who had been chairman, president retained only the latter. According to him, Syquest expect to return to profitability in the current quar

Over the past year, Syquest has faced severe com from Iomega, whose Zip and Jaz drives have bec popular as cheaper data storage and backup sol India, however, Syquest drives continue to be popu cially in DTP parlors, partly due to the poor availabi and Jaz.

Fixing Rotten Apples

In an effort to preserve its reputation for maki quality products and avoid a Pentium-bug-s fiasco, Apple announced a huge repair and ment program this week. Apple sold more than a machines from the lines covered by this program.

This likely to confuse Mac owners as computer deal only be reimbursed for repairs of defective compon gardless of any of Apple's goodwill, this episode is an rassing setback, especially when the company needs its customer base's confidence, with the Wintel Alli great.

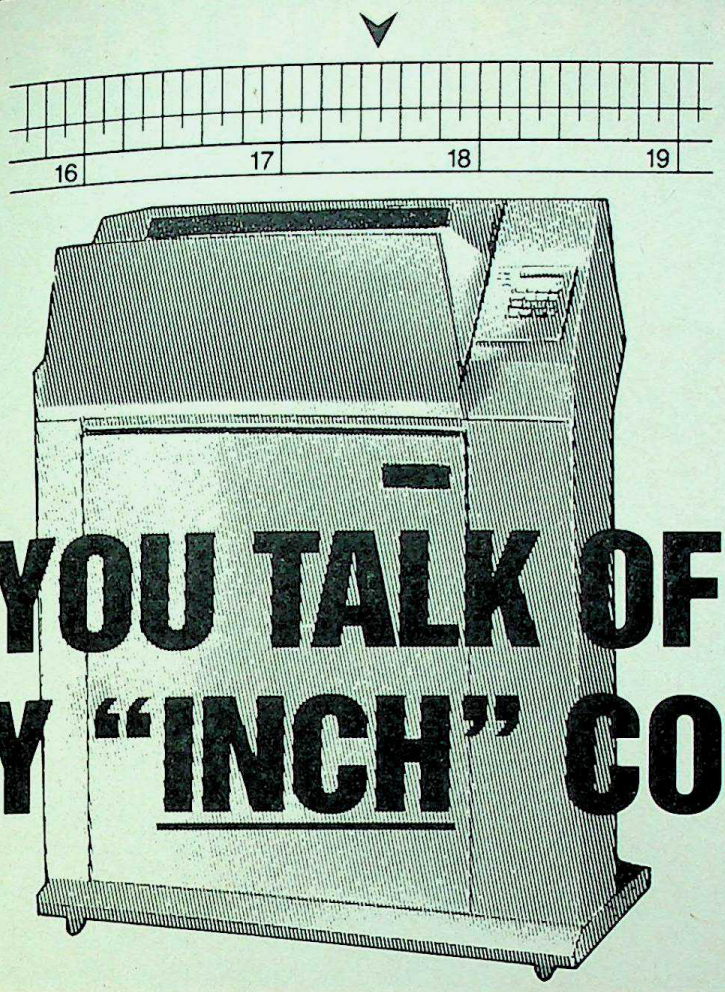
Some of the problems covered will be obvious- cracked laptop covers or sudden color changes in the Others cause the computer to freeze. But Apple is not any guidance on how users can identify if their ma covered by the repair program.

The PowerBook 5300 laptop has suffered more th The program will cover the Power Mac and Perfor 5300, 6200 and 6300 models, as well as the Power and 5300. Dealers will be reimbursed for specified re seven years, instead of the normal warranty of a year covered include replacement of defective logic board cables for the Performas, and inoperative AC power and plastic cases that crack at the hinge for the P

Apple Senior VP Fred Forsyth says the problems because of pressure to bring new models to market

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



WHEN YOU TALK OF WIDTH EVERY "INCH" COUNTS

Widest Carriage : Lipi offers widest carriage in Dot Matrix Printers - 17 1/2 inches (optional). Half inch of added carriage width to accommodate large size forms like two Bank Cheques / Share Certificates printed abreast, thus doubling the throughput as compared to the competition. This gives you an advantage of having two printers for the price of one.

Additional benefits of Mannesmann Tally Lipi Line Matrix Printers :

Proven Reliability : In India with thousands of installations against nil of competition.

Superior Print Quality : Because of hard material used for printing elements.

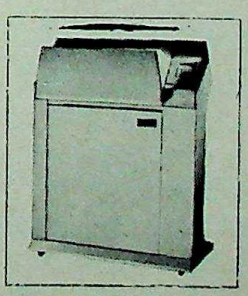
*** Superior Paper Transport :** 4 tractors for reliable and fast paper movement and also reverse paper motion for printing graphics. Competition has only 2 tractors.

*** Multiple Interface :** Simultaneously active serial and parallel shared interfaces with auto switching, while competition requires selection from the front panel.

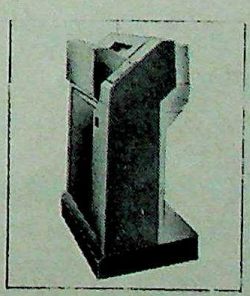
*** In-line ethernet interface :** Network printer.

EXCELLENT BUY FOR PRINTING SHARE CERTIFICATES / BANK CHEQUES

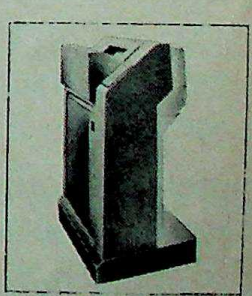
LIPI EXCELS IN HIGH SPEED, HEAVY DUTY COMPUTER PRINTERS



MT691
1400 LPM



MT661
800 LPM



MT645
450 LPM

LIPI DATA SYSTEMS LTD.
Head Office : Mittal Chambers, Nariman Point, Bombay - 21.
Tel: 2882960 / 61 / 62 / 63 / 64. Fax: 91-22-2873314.

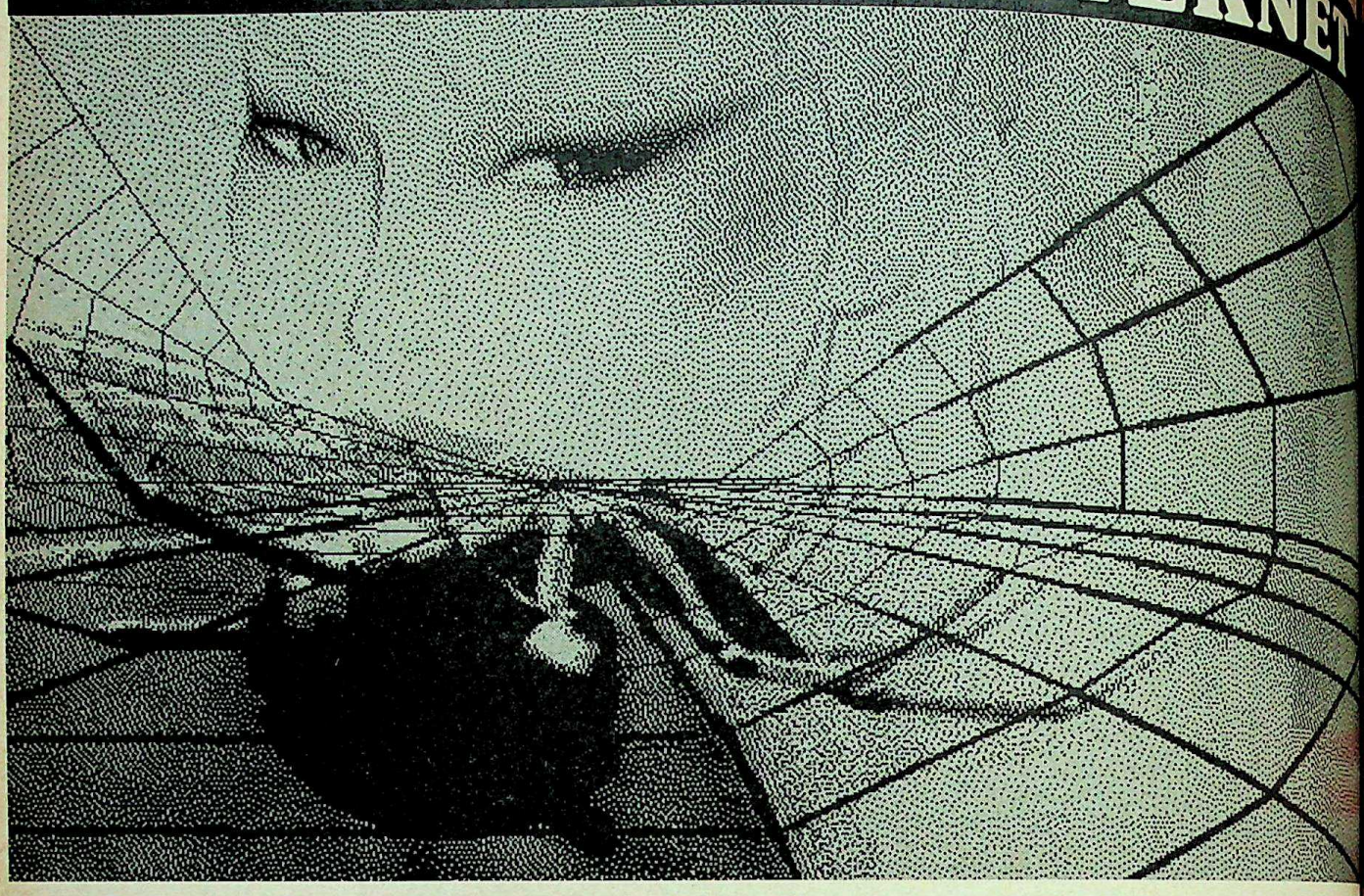
MANNESMANN *Tally*

- **Bombay** : Ph.2882960 / 2882964 • **Delhi** : Ph. 6467228 / 6217392 • **Calcutta** : Ph. 2429435 / 2429550
- **Bangalore** : Ph. 2272954 / 2272955 • **Madras** : Ph. 8283804 / 8281256 • **Udaipur** : Ph. 521700
- **Hyderabad** : Ph. 815185 • **Lucknow** : Ph. 235812 • **Nagpur** : Ph. 523187 / 526761 • **Bhopal** : Ph. 571541
- **Panaji** : Ph 223712 • **Pune** : Ph 455729 / 454449 • **Ahmedabad** : Ph. 6569170 • **Baroda** : Ph. 328256

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVERTISE ON INTERNET



Dealers solicited all over India

Get international presence 365 days a year 24 hours at extremely low cost. Avail of our special introd prices. Ideal for exporters, importers, hotels, t sectors, software developers and service providers. Inte fast emerging as a powerful advertising media with ins of **more than 10000 visits per site per day** becom common phenomena. This kind of publicity and co cannot be matched by any other media. Internet adve comes as a boon for software developers who can provide evaluation or demo co shareware copies for downloading to get immediate and mass popularity.

Other services:

Intranet *:* Create your company wide web and a client - server model where standard we clients like netscape, mosaic, etc. can access information from a httpd server with dial - in support.

Wintech Computers offers Autoresponder services, life time e-mail numbers and many m exiting and useful services at down to earth prices.

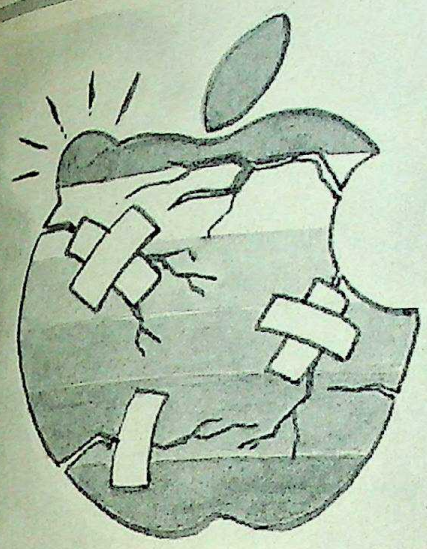
Login to our home page at
http://www.winglobe.com
for more details or send an email at our auto-response email address
info@winglobe.com *for a* quick email reply.

WINTECH COMPUTERS
Net-living not just Networking

Wintech Computers, Shop no. 45, Gr. floor, RNA Arcade, Lokhandwala Complex, Andheri
Bombay 53. Tel. 627 0246 Fax. 632 0945

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



ough transition to the Power PC, that began in 1994 and tinued into 1995.

emory Prices Yet To ottom Out

RAM prices appear yet to touch its lowest as 4 MB chips in Silicon Valley costs less than $5, much lower than that quoted by analysts. Newer 16 MB chips sell for ut $20, compared with $30 last month. But even these ces are expected to fall to $15 with 4 MB chips dropping to

Between last October and this April, average memory per PC grown from 11 MB to 16 MB. This trend is critical to chip ers switching to 16 MB and 64 MB DRAMs. But without pid switch to a 30 MB per system average, supply outstrips nd and prices will remain depressed.

Despite the free-fall in prices, buyers still expect a greater me and are holding off. Texas Instruments' April prediction t prices had stabilised seems wishful thinking as prices ntinue to slump. But Compaq, the world's largest DRAM chaser, believes prices are beginning to stabilise.

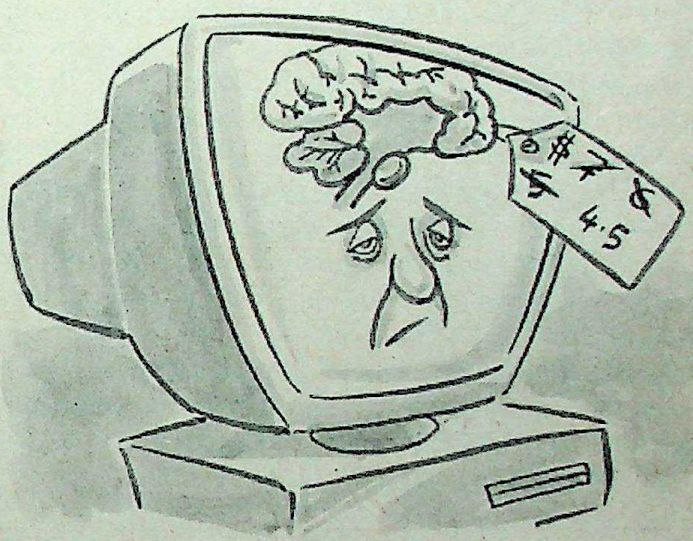
Meanwhile, memory makers are pinning their futures on a SDRAM that offers higher speeds at lower power. Dell is g the first major manufacturers to introduce systems g the new chips.

S Gives Flat Panel isplays A Boost

he first advanced flat-panel display (FPD) etch tool from Lam Research of Fremont, Silicon Valley. Displayed at SID '96, San Diego, a display technology e show, the $14-million product was developed with finanport from US Display Consortium (USDC), a consorof US high-tech companies and the US government ished in 1993. The gameplan is to help US industry fight Japanese in the FPD manufacturing industry.

The "Continuum" dry-plasma etch-based system will be capable of processing in excess of 50 displays measuring as large as 600 x 720 mm. According to USDC-CEO Michael Ciesinski, this "is an important milestone in the Consortium's history, being the first of our funded projects to result in a commercial product. USDC recognised that the US FPD manufacturing infrastructure needed an etch capability for third-generation display production."

Another project to demonstrate the FPD Full-Flow processing system's etching capability on 365 x 460 mm substrates at an advanced FPD manufacturing fab operated by dpiX, formerly the Xerox Palo Alto Research Center (PARC). Most FPD's today are still produced using wet-etch techniques which has several yield-limiting problems that become unsurmountable when size increases beyond 300 mm.



Meanwhile Watkins-Johnson announced it has shipped and installed several atmospheric-pressure systems for FPD production at NEC. These systems will deposit silicon dioxide for interlayer dielectrics for active matrix display production.

FCC Defines HDTV Transmission Standard

Light years after it was first proposed, the US Federal Communications Commission (FCC) has released a formal proposal for a HDTV transmission standard likely to revolutionize TV by integrating entertainment and data broadcasting over a single medium.

The proposed standard will offer movie-quality TV images with hi-fi sound. Viewers will be able to simultaneously download data from the Net and other services. The FCC proposal was developed from an advisory panel, that included the broadcast and entertainment industries, outline submitted last year.

When the FCC began, it accepted proposals from six communications and entertainment coalitions. The project took an unexpected turn when one group proposed an all-digital standard based on advanced military signal processing technology. This immediately eliminated an analog-based Japanese proposal and the other US groups modified their systems

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

to all digital.

In the end, the FCC was unable to choose a single system and forced the groups to collaborate on a common standard that would combine the best features of individual systems, including backward compatibility for the existing NTSC standard.

Third Dimension To Intel Chips

Lockheed Martin in Sunnyvale, one of the main 3D graphics development centres for space and military simulation systems in the US, has announced a partnership with Intel to develop chips to bring its state-of-the-art technology to PCs. If successful, PC users will benefit from the stunning 3-D graphics that pilots see on jet simulators and astronauts use to learn how to glide the shuttle to earth.

Lockheed will be able to generate revenues from a potentially vast market. Yet Intel is the biggest beneficiary as it will be able to offer its PC customer base with 3-D graphics that approach that of Silicon Graphics workstations. The biggest losers may be graphics chip makers such as Cirrus Logic, S3, and Trident Microsystems, that faced with Intel formidable manufacturing and R&D resources.

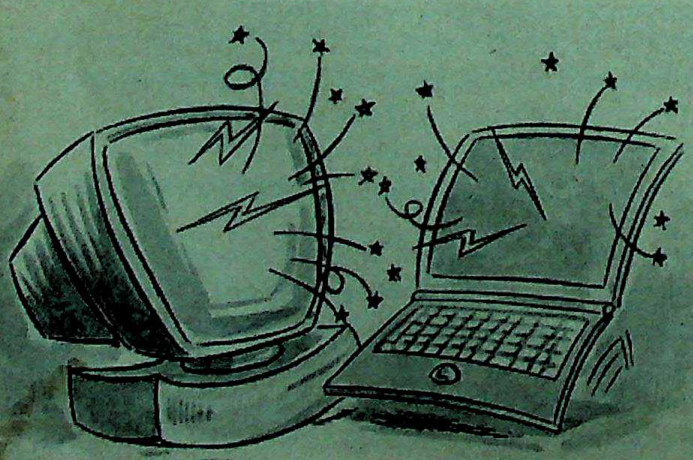
Intel said it could enter the 3-D chip market sometime in 1997. But will not be the only chip maker with access to Lockheed's patents, as Chips and Technologies in San Jose made a similar deal last year.

High-Resolution Sparkles

The latest displays ranging from tiny head-mounted high-resolution ones to 42" flat panel TVs that hang painting-style on a wall, were exhibited at SID'96 in San Diego. NEC had a $5,000, 20" diagonal display from that uses new proprietary technology to increase the average viewing angle by 80 degrees in horizontal and vertical directions. The display uses thin-film transistor (TFT) LCDs with a resolution of 1280x1024 pixels.

EPSON announced a new 4.6" plastic-film panel (PFP) passive matrix full dot display using flexible plastic. These thin, light and unbreakable-type 640x200 pixels LCD panels are well suited for mobile devices such as pagers and products. The display is designed for low-power products and integrates a 3.3 V power supply with driver and a AC/DC converter with a power consumption mW.

VR headgear was boosted by Kopin's full color active matrix LCD with 800x600 resolution, speed density of some 1,500 lines per inch that far exceeds LCD capabilities. A proprietary colour sequential allows mono or color. These devices are designed for generations of Kopin's head-mounted displays for computer, entertainment and military applications in lightweight, portable projectors.



Silicon Graphics Sells Cray Unit To Sun

When Silicon Graphics (SG) acquired supercomputer maker Cray Research it also inherited a part of operations that markets supercomputer servers Sun Microsystems networks. Recently, SG distanced from the business related to its arch rival by selling business unit to Sun. however, financial terms were disclosed.

Under terms of the deal, Sun would acquire the CS6400 enterprise server, a computer based on Microsystem's Sparc/Solaris microprocessor chip and operating system, which runs with other large computer systems manufactured by Sun. The CS6400 was part of the Systems Business Division, which will now become a part of the Sun Microsystems's Enterprise Server and Storage

Besides having to deal directly with its top competitor severing the business unit will clear the way for Silicon Graphics to overhaul the basic architecture of Cray's computers so the machines will run on Silicon Graphics microprocessors, instead of the Sparc risc processors Sun.

Net Access With New Zenith TVs

Zenith Electronics,the last surviving US TV manufacturer, plans to sell large-screen TV with Net access capabilities. The NetVision was produced with from Daba, a small Silicon Valley firm, with the first due towards the year end. "If you're watching a football and you are interested in knowing how these two compare over the past two years, you can access the data the Web," said Zenith president Al Moschner.

He said 27" and larger sets will range between $1,000 $2,600, and the additional technology will cost consumers about $400...$600. NetVision includes a built-in modem TV viewers will have access to the Net through an on-screen control with track-ball. A wireless keyboard is planned.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DQTV

Presents

COMPUTERS FOR YOU

Every Thursday at 10.30 pm
On DD Metro Channel

Watch the amazing benefits computers have brought about in every walk of life!

Computers For You is sponsored by:
ORACLE SOFTWARE INDIA PVT LTD
&
APTECH

Digitized by Arya Samaj Foundation Chennai and eGangotri

Tasty Bits From The Technology Front

From Spring Internet World

Big show: 40,000 attendees overflowed San Jose. The hype level was dizzying: one booth had Indiana Jones and Marilyn Monroe lookalikes performing on the hour, another featured Elvis with waitresses in a simulated diner.

Six months ago the first robust HTML editors and industrial-strength Website managers were beginning to appear; in San Jose there were a dozen companies in this space, one giving away tools (http://www.tools.gnn.com/press/index.html) and others (http://www.netcarta.com/ and http://www.ebt.com/) aiming high for the largest enterprises. In Boston the first commercial URL collector-organizers appeared; at last week's show the category was ubiquitous and had broadened to include off-line browsers and "personal spiders." Even bigger was the showing of Web traffic watchers (http://www.caravalle.com/) and analysis tools (http://www.netgen.com/ and http://www.interse.com/).

Almost everything on the show floor was being demonstrated on Windows 95. My vote was for the most often-asked question at the show: "When will this be available on Macintosh?" Rarely was the questioner satisfied with the response. While MacOS runs on less than 10% of new computers sold, I suspect that the Mac's share among working Web designers and webmasters is higher. If you can supply figures, please e-mail me.

Netscape was showing the beta version of its new Navigator 3.0 browser, called Atlas, just weeks after finally shipping Navigator 2.0. As covered in earlier TBTF, this version builds in Net telephony; also streaming audio, VRML-3D, and video (not all implemented on all platforms yet). I've been using the Macintosh version (Preview Release 2) and find it to be at least as stable as 2.01, though conspicuously sluggish—typing fast will lose you keystrokes. I particularly appreciate two new features: (1) in a frame, hitting the Back button takes you to the previous frame, not to the previous page; and (2) you can have Navigator ask each time before accepting a "cookie." The latter feature is enlightening: it gives you some clue as to how much tracking of user habits has been going on the Web, invisibly until now. As an example, to visit the home page of Interse (http://www.interse.com/), I refused eight cookies; to descend one level in the site I refused 16 more. Each cookie could have allowed the site to record details about my browsing habits.

A Global Bulletin Board

Venanzio Jelenic has begun an intriguing experiment: the FreeForm WebSite (http://i-site.on.ca:8002/index.html). This webmaster encourages (http://199.246.132.96:8001/index.html) all visitors to modify the site in any way they choose, subject only to his judgement that the result be decent. The site is set up so that anyone can update, rearrange, or add pages to it using FTP. It's a noble experiment in pure gonzo global collaborative authoring. Jelenic posted a notice about the site on the Apple Internet Authoring mailing list this week and has entertained several thousand visitors since, about 1% of whom have contributed content. So far there is a physics test, a once-upon-a-time story, a number of "shingles" hung out by freelance Web designers and others, and not a lot in the way of visual coherence. Jelenic writes: "...what you will see there is [illegible] doing... it's been done by many [illegible] people.... and the last iteration [illegible] some neat page graphics, only [illegible] Saturday, so the site some days [illegible] "look and feel" almost 100% [illegible] even knowing about it—it's a bit [illegible] as a webmaster to see that... [illegible] getting used to it."

Yahoo Sidesteps Switchboard Controversy

Need the address of John Do[illegible] your school friend who went off to [illegible] of a long-lost uncle? Just get on [illegible] to http://www.switchboard.com. [illegible] tabase has been nothing but tro[illegible] contains the names and addres[illegible] more than 100 million Americans [illegible] from commercial mailing lists. F[illegible] is, the database includes those w[illegible] requested unlisted numbers from [illegible] local phone companies, unaware [illegible] the request did not bind the phone [illegible] pany never to sell their names to [illegible]

Early in April Yahoo launched [illegible] People Search service in conjun[illegible] with Database America that p[illegible] access to the names and addres[illegible] 185 million Americans. The San [illegible] Mercury News reported that after [illegible] lic outcry Yahoo had removed SS[illegible] unlisted names.

The troublesome database, o[illegible] eal descendent, is now owned by [illegible] base America, with Banyon Sys[illegible]

Land Rush In Namespace

The Net raises twisty pro[illegible] those concerned with questions [illegible] mark law and brand recognition. [illegible] September 1995 anyone could re[illegible] domain name for free (h[illegible] www.atria.com/~dawson/tbtf.ps).

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...html). Indeed, until July 1995 the ...y of Network Solutions, the SAIC ...diary that runs the InterNIC regis... did not consider possible trademark ...ts when granting a new domain ...e (see http://internic.net/domain-...internic-domain-4.html for NSI's ...ent policy).

...Toys R'Us, the giant toy retailer, didn't ...for the policy to change before com... ...n like the Grinch that stole Christ... ...s. As they were developing their own ...b site early last year Toys'R'Us report... ...applied pressure to a 9-year old boy ...se father had obtained for him the ...ain name "toys-r-us.com." (The boy ...icked the store, he said.) Father and ...relinquished the name in alarm. In ...1995 Toys'R'Us came after Miles ...eal, whose Web site (http://...rru.com/rru/) is the current em...ment of a satirical operation he calls ...Kills-R-Us." O'Neal is refusing to ...up the name. The spoof has no legal ...mmercial reality; it exists only in ...eal's mind and on the Net. (RRU first ...eared in 1988 on Usenet news and ...became a mailing list. In 1993 ...eal secured his domain name and ...ved RRU onto the Web.) For summary ...s encounters with the toy company ...http://www.rru.com/rru/tru/#synop-

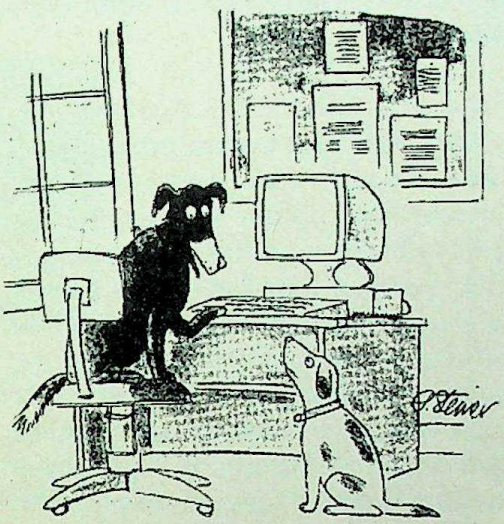
...Zdnet News delves more deeply into ...and rush in namespace at http://...net.com/Content/News/Files/...1257,00.html. For an exhaustive ...ment of see "What's In A Name?" ...p://www.ll.georgetown.edu/lc/...mic/domain1.html). This impressive ...was put together by three law stu...ts at George Washington University: ...than Agman, Stacey Halpern, and ...d Pauker.

ple Know You're A Dog

...The famous George Steiner New ...er cartoon (http://ryker.itech.cup....~jsumey/humor/dogs.htm) ...withstanding, the Internet privacy ...der Community Connexion has ...ed a public beta trial for the ...nymizer (http://www.anonymizer....a free service that lets anyone surf ...Web anonymously. To try it visit ...://www.anonymizer.com/open.html) ...ternatively, prefix "http://www.ano...er.com:8080/" to any URL in your browser's Go To URL dialog. Either way, you will thereafter leave no footprints on the Web.

The Anonymizer works like a proxy server, with the added feature that you can prefix its URL to another; you need not configure it as a proxy in the browser's options (but this works too). Sites that you visit via the Anonymizer will log a request from "atropos.c2.org".

The service strips out all the other personal information normally retrievable from your Web visit—your IP address, browser type, computer type, referring URL, and e-mail address—before contacting the desired URL's server.



"On the Internet, nobody knows you're a dog."

The myth...

... and reality

(For a graphic demonstration of the information a server normally receives about you, visit http://www.anonymizer.com/cgi/snoop.pl or http://www.patents.com/status.cgi.)

The service anonymizes http, FTP, news, and gopher requests. For other types of requests, such as https (secure HTTP), the user is warned that anonymity cannot be maintained. Code for the Anonymizer was developed in 1995 by Justin Boyan; it has been in wide use on the CMU campus.

White House To Propose Grandson of Clipper

Rumors have been circulating that the White House was preparing yet another proposal requiring the escrow of cryptographic keys—the Grandson of Clipper—after two earlier key-escrow proposals were, respectively, laughed out of Washington and ignored. On May 17, 27 members of the House of Representatives sent the President a letter (http://www.crypto.com/gl_ltr.html) asking him the status of any such proposal and urging him to back the more liberal export restrictions embodied in the bill HR 3011 (http://www.crypto.com/bills.html, http://thomas.loc.gov/cgi-bin/query/z?c104:h.r.3011).

On Saturday Inter@ctive Week shed some more light on the President's plans. At 4:09 PM, Will Rodger, Washington Bureau Chief of Inter@ctive Week, posted a note to the Cypherpunks mailing list announcing an article he had just published (http://www.zdnet.com/intweek/daily/960518y.html) on a leaked draft white paper describing the rumored Grandson of Clipper proposal. A response (http://www.atria.com/~dawson/tbtf/clipper3-tcmay.html) posted by Timothy C. May, an original Cypherpunks, raises a number of questions about the reported key encryption proposal. The note, with some clarifications that Will Rodger added at 11:40 Sunday morning, appears on the TBTF archive by permission.

Cypherpunks In Meatspace

The Cypherpunks mailing list announced a Palo Alto meeting IRL, in real life; in the flesh, to put it in an old-fashioned, DNA-centric way. Martin Minow was there and took notes. He reported to the Cypherpunks list on May 12 from the front lines of the digital encryption battles.

Eudora and Netscape will provide S/Mime encryption in future releases. PGP is going nowhere and S/Mime is becoming ubiquitous. PGP lost at these two critical companies because of ongoing legal problems with Phil Zimmerman and strong concern that companies can't

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

use PGP without running into patent problems with RSA.

PGP's Web of Trust model is not working; it's hard to map an e-mail address to a key. What's winning is digital signatures, and S/Mime will support Verisign. The next Netscape beta will feature five Certificate Authorities in addition to Verisign.

S/Mime provides pretty good encryption but from the Cypherpunks' viewpoint has two flaws: (minor) the signer's name is not encrypted, and (major) enryption defaults to 40-bit, and there is no good way to negotiate for stronger encryption. Over 90% of all secure connections made today use 40-bit RC2.

Slow News Week

Harvard hosted a conference on the future of the Net at which Bill Gates spoke (he also spoke for free at MIT the next day). I saw little news coverage from this conference; it was quite upstaged by the two events reported below.

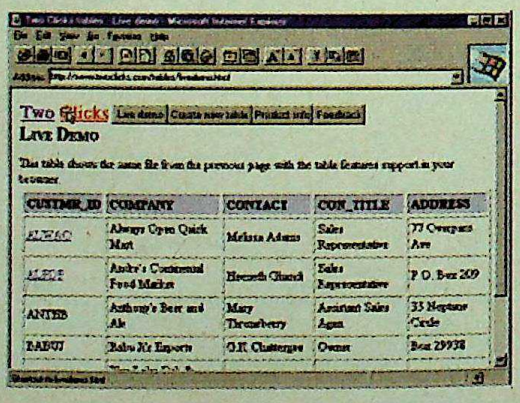
Sun Microsystems sponsored the JavaOne Developers Conference in San Jose with featured speaker James Gosling, the father of Java. On Wednesday Sun gave details of JavaOS, a design for implementing the architecture-independent Java virtual machine in silicon, and announced licensing deals for manufacture with Mitsubishi, NEC, and Samsung. Chips should be available by fall of this year for incorporation into network PCs, telephones, pagers, or doorknobs. JavaOne's most quotable quote, overheard at the first-night party at the Museum of Modern Art: "If your development tools don't suck, you're not on the bleeding edge of technology."

On May 30 the US National Academy of Sciences' Committee to Study National Cryptography Policy released its breathlessly awaited report (`http://www2.nas.edu/cstbweb/28e2.html`); see the overview (`http://www2.nas.edu/cstbweb/2646.html`) and a summary of the recommendations on the TBTF archive. Bottom line: the Committee suggests allowing US corporations to export without restriction encryption products incorporating keys up to 56 bits in length. Corporations wishing to export stronger crypto may be required to escrow their keys. But the government is advised to "eat its own dogfood" on key escrow—to test such a scheme extensively for its own communications needs before imposing it on others. No legal restrictions should be placed on US citizens communicating within US borders. Crypto policy should be developed in the open, i.e. in Congress and without classification or secrecy. Phil Zimmerman, author of PGP, opines that the recommendations don't go nearly far enough. (Anyone seriously interested in key escrow should see the review (`http://guru.cosc.georgetown.edu/~denning/crypto/Appendix.html`) of all such systems extant, published by the pro-escrow cryptographer Dorothy Denning.)

Tired Of Coding HTML Tables?

Visit Two Clicks Instant Tables (`http://www.twoclicks.com/tables/livedemo.html`), a free Web service that automatically converts tab-delimited data, such as that from an MS Excel spreadsheet, into HTML tables. The form interface offers lots of table formatting options—including those supported only by the latest beta versions of the Netscape and/or Microsoft browsers. To use it you can simply copy a range of cells from an Excel spreadsheet and paste into the form on the Two Clicks page. When your table is returned you can use your browser's View Source function to capture the HTML coding.

The author, Drasko Markovic, offers



Instant Tables for sale to install on your own Web site (for UNIX or Windows 95/NT servers only). The site also offers a free version you can download and install, but why bother? Its functionality is quite limited and the free Two Clicks server is speedy (so far) and versatile. I personally think Markovic has overpriced the commercial version at $500—the only advantage I can see to running it on my own server is the ability to develop templates for different styles of tables, a feature that the free service doesn't support. I couldn't develop a

ness of formatting tables

as the author is already doing

Over The Transom

Transoms are the little

rectangular windows above

in many pre-WW-II office

story goes that desperate

clandestinely visit publishing

toss their usually unreadable

scripts through the publisher's

window. The publisher of a Net

ter gets a large and ever-increas

ume of over-the-emailtransom

nouncements and other loosely

semi-spam generated by

website developers and publicists

with a sampling from this week's

in TBTF's Eudora folder named

Electronics Incorporated

Shotpeening Universe (Indiana

/www.shotpeener.com/). "Electronics

corporated is a leader in shot

control technology. EI manufac

magnetic valves and controls

gauges and produces the Shot

Newsletter."[Be still my beating

Ed.]

Stylemaster Truck Accessories

ana) (`http://www.stylemaster`

"Style Master manufactures the

quality truck accessories."

Mushrooms, Morels, and Mas

of the Northwest (Oregon)

rogue.northwest.com/~mushro

harvest mushrooms in the Pacific

west. Through our co-op of pick

can harvest your order and deli

you overnight for guar

freshness."[Shucks, no amanita

The Bandwidth Conservation Society

These guys (`http://www.infi`

com/faster/index.html) are serious

low-impact pages; the site is a

and a resource center for the bit-

Unclear when to use GIF and

JPEG? Don't know how to red

bit-depth of a GIF? Ever heard

(Consecutive Run Length Inse

way to reduce GIF sizes even

Visit and learn.

By Keith Dawson. TBTF focuses

bellwethers in computer and

subscribe send the message "subscribe

request@

By arrangement with

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BUY ★ SELL ★ LEASE ★ HIRE

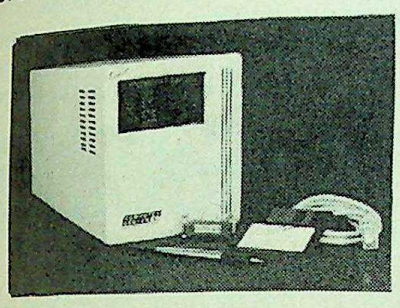
MICROMART

CLASSIFIED

Now in INDIA at ex TAIWAN price

Smart POWER UPS

Compatible with world famous
UPS monitoring software "SAFEWARE"*

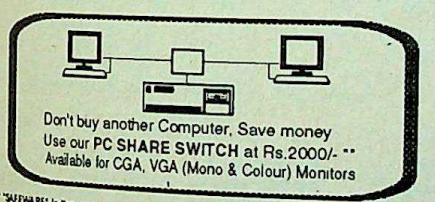


Goodbye CVT & SERVO

Now at Rs. 1500/-

POWER GUARD 1KVA

For Connecting :- Computers, Laser Printers, Xerox, PAX, EPABX, E. Type, Medical, Defence & Commun. Equi. etc.



Don't buy another Computer, Save money
Use our PC SHARE SWITCH at Rs.2000/- **
Available for CGA, VGA (Mono & Colour) Monitors

* "SAFEWARE" is the registered trademark of Lantech Computer Co. TAIWAN
** Cable Price extra.
*** Prices are exclusive of taxes etc

A Product From -

COMPUTER CENTER
SERVING INFORMATION TECHNOLOGY

40E, Nimtolla Ghat Street, Calcutta - 700 006
Tel - (033) 5554429/5337740. Fax - 91-33-5554429
E Mail - Power. is @ aXcess. net. in

Available at :
BARODA - 559615, 431462. BHUVANESHWAR - 402013/405178. BOMBAY - 2049308. BURDWAN - 4140. CALCUTTA - 260441/2. - 2424670/7831. COCHIN - 374091. GOA - (08343) 316455. GUWAHATI - 545422. GANGTOK - 23245. IMPHAL - 220795/296. JABALPUR - 311854. JAIPUR - 311017/310635. JAMSHEDPUR - 428450 (P.P.), MADRAS - 613353. MUJAFFARPUR - 241157. NEW DELHI - 7194343/3509/3518/5101403. PATNA - 641111/2, 642304. RAJKOT - 54185. RANCHI - 202551/3. RAIPUR - 23080, 27433 (R) Fax - 510613. CHANDIGARH - 545032, 41586, Fax -706551. SAMBALPUR - 32903. SECUNDERABAD - 846934. TINSUKIA - 30432 / 21512. Fax - 22037. TRIVANDRUM - 710036, 460818. VIJAYAWADA - (0866) 438335. VISAKHAPATNAM - 531063.

Dealership enquiry solicited

BEYOND SERVICES

The cost is long forgotten but quality of service is remembered forever.

- ★ COMPONENT LEVEL REPAIR OF MOTHER BOARDS 286/386/486/PENTIUM.
- ★ REPAIR OF HARD DRIVES/FLOPPY DRIVES/ MONITORS/KEYBOARDS/CVT, ETC.
- ★ LASER PRINTERS/INKJET PRINTERS/DOT MATRIX PRINTERS.
- ★ UPGRADATION OF COMPUTER SYSTEMS.
- ★ LAN/WAN INSTALLATION.
- ★ COMPUTER HARDWARE & SOFTWARE CONSULTANCY.
- ★ COMPREHENSIVE MULTI MEDIA SOLUTIONS.

4th Floor, Amar Chamber, 18/5, Arya Samaj Road, Karol Bagh, New Delhi-110 005
Phone : 5727612, 5711789, Fax : 5761514

HEAD PROBLEMS ? NO PROBLEMS !

CONTACT : **SUPERTRON** - The only reliable source, for guaranteed repairs of all Print Heads, Printers, Floppy Disk Drives, Mother Boards, Monitors, SMPS, Motors, Key Boards, UPS, Laser Printers etc.

Supertron Computer Systems (P) Ltd.
366, Basement, Sant Nagar,
East of Kailsah, New Delhi-110 065
Ph : **6446234**

Branch Office :

B-8, Zenith Business Centre,
Motilal Avenue, **Jaipur** - 302001
Tel. : **361846 / 362590**

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BUY * SELL * LEASE * HIRE

MICROMART

CLASSIFIED

All Astrology Softwares Under One Roof

1.	Astrology - Tamil -	Rs.750/-
2.	Astro - Tamil - Matching	Rs.750/-
3.	Numerology with Name Checking	Rs.750/-
4.	Astro - Eng - North Type	Rs.750/-
5.	Astro - K.P. System	Rs.750/-
6.	Astrology/Eng/Hindi/Gujarathi	Rs.2500/-
7.	Astrology Eng & Hindi	Rs.4000/-
8.	Astro/Eng & Gujarathi	Rs.4000/-
9.	Astro/Eng, Hindi & Gujarathi	Rs.5000/-

Item No.6 to 9 includes full calculations, Varshapal, K. P. System Option, North type option, Match Making option, Screen option.

Configuration : PC/XT, or AT.

Send Demand Draft Favouring 'R.L. Srenivasan' Payable at Trichirappalli.

SATHYA SAI SOFTWARES,
75-A, 1 Cross, N.E.E., 133, M.E.M. Complex,
Thillai Nagar, Trichy - 620 018. TAMIL NADU

HIRE COMPUTERS

286, 386, 486, PENTIUM
MONITORS: MONO/VGA/COL
PRINTERS: DMP/INKJET/LASER
FAX MODEM, LAN INSTALLATION

PROMPT SERVICES
MODERATE RATES

Alpha
COMPUTER CORPORATION
GI-6, G. T. Karnal Road.,
Ind'l Area, Azadpur, Delhi-33.

Ph : 7435566, 7422123

INTERNET

ADVERTISE & SETUP
YOUR HOME PAGE
FOR
Rs. 999/- PER YEAR ONLY

WEBLINK
A 436 DEFENCE COLONY, NEW DELHI - 24
Sameer - 6834805, Gadh - 4632338
Fax: 4631357 BANGALORE - Ph: 5297969

ICL

INDIA'S OLDEST AND BIGGEST REPAIR CENTRE OFFERS:

1. REPAIRING OF ALL MAKES OF DOT-MATRIX PRINTERS.
2. REPAIRING OF PRINTERHEADS, STEPPER MOTORS WITH WARRANTY.
3. MORE THAN 15,000 PRINTERHEADS REPAIRED SINCE 1987.
4. SPARE PARTS & COMPONENTS FOR ALL BRANDS OF PRINTERS EX-STOCK.

CONTACT:
EVERSHINE SYSTEMS (P) LTD.
G-4, RAJA HOUSE, NEHRU PLACE,
NEW DELHI-110019.
PHONES: 6422600, 6447792,6447937
H.O. and Workshop 7534078.

SOFTWARE CONSULTANT, FREELANCERS,
SOFTWARE DEVELOPERS & STUDENT

EXCITING OFFER

Precious / Foxbase/Foxpro Source Code (.PRG) files of following real life applications are available.

1. Excise Record Keeping System (For manufacturing concerns)
2. Product Distribution System (For Pharmaceutical & Medical Shops)
3. Financial Accounting System
4. Payroll System
5. Share Accounting System
6. PF Management System

Rs. 500/- each by MO/DD.

MAX Tech Software
49/B, Bijoygarh, Jadavpur,
Calcutta - 700 032

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...llow Pages For ...e Net

...ooked onto the Net? If not, get yourself listed among some 60 million lucky ...soon. The type and variety ...formation resources avail...le on the Internet—a world-...e network of over 18,000 ...er-connected computer ...works—is expanding at a ...nomenal rate. If you have ...C, a modem and a tele...ne line, you're ready to ...e into this information won... world.

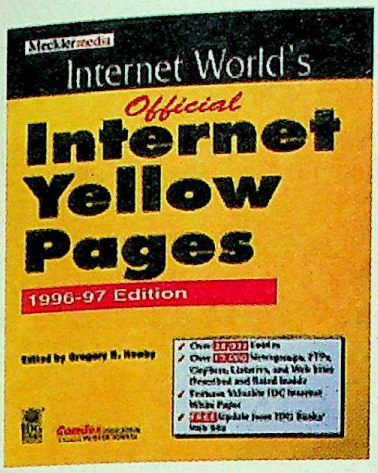
The challenge of using the ...rnet effectively is not in ...ding information. It is in ...ding information you are ...rested in and avoiding the ...

This *Yellow Pages* is de...ed to help you do just ... instead of spending ...rs chasing shadows or ...dering whether something ...s, this book helps you ...k down that "something" ... tells you how to use it.

Graphics and multimedia ... significant attraction of ...Web, and almost all infor...tion providers and users ...d to have access to such ...resting sites. It certainly ... good idea to flip through ...-yellow pages, select the ...ersal resource locator ...RL, you want, and go ...ight to the site and enjoy ...rnauting.

...ere are 28,000 special...rest mailing lists, elec...ic publications, text and ...ware archives, commu...wide information sys...s and Web, Gopher, and ...sites, that go from ac...ing to zoology.

...companies are now choos...other methods to reach ...mers, including brows...



ing Net discussions to offer unsolicited, yet helpful, advice or answers. This guide is ideal for finding a suitable place to advertise their products and services to a wide range of audience across the globe.

Besides listings of interesting sites, the book also contains nine comprehensive indices.

Usenet Newsgroups lists about 14,000 different news groups, organized by topic, with hierarchical group names, that include alt. (alternative topics), clair. (business, products etc.), comp. (computers), news. (news groups about Usenet), rec. (recreation), sci. (science), soc. (socialization, society, and culture) and talk. (talk and discussion). A separate appendix lists all their addresses.

To date, Academic Institutions have given more resources and software to the Net (through FTP and Gopher sites on their servers) than any other group, including governments and corporations. This list highlights about 2,500 colleges and universities (ranging from American Association of Collegiate Registrars and Admission Officers to the Youngstown Free-Net Gopher) around the world. Users can expect to find at each location a variety of resources pertinent to the host institution.

Each FTP site contains lots of software and documentation for retrieval by users. Gopher sites contain a series of menu-driven files offering general and other regionally relevant information, including campus schedules, event listings, and library information.

The Online Library Catalogs contains about 100 electronic version of the familiar library card files. These online catalogs are some of the most useful resources on the Net and make available features far beyond anything that a card file could offer.

Ever dreamt of extracting a few paragraphs for a quote or a report from the electronic version of Charles Dickens' *A Tale of Two Cities*? Try `ftp://mrcnext.cso.uiuc.edu/pub/etext/etext94/2city11.txt`. The appendix on Electronic Texts lists about 275 such URLs most of which are free. Browse through some of them and you might come across electronic texts with embedded images and sounds—much like the multimedia CD-ROMs found in your local computer store.

The Archie server, or just Archie, points to a public-domain software that helps find files freely available through anonymous FTP. It contacts every FTP site listed automatically for a monthly update of what's available. The appendix lists some 25 major Archie servers, as well as the two-character Net address suffixes for 242 countries.

Finally comes Multiuser Dimensional Games (MUDs). This fancy name essentially describes textual, role-playing, computer-based games. Often called interactive fiction, such virtual worlds need a vibrant authoring community, and one MUD differs widely from another because of the sheer diversity of the creative minds at work. The book lists about 540 popular games and their Telnet addresses. For an update, check out `http://www.ccs.neu.edu/home/lpb/muddex.html`.

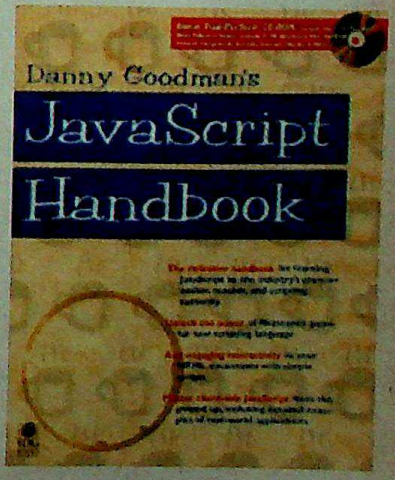
This directory is perhaps, the largest and most exhaustive volume of its kind that is a must need for your Internet reference bookshelf.

Internet World's Official Internet Yellow Pages
By Gregory B. Newby
Comdex Computer Publishing
904 pages, Rs 450
RQS #E0635

Language for the Web

JavaScript overcomes the restraints imposed by HTML, and is rapidly evolving as *the language* for the Internet. Soon, this language will direct its future by citing the most often needed enhancements.

This three-part book not only provides an entry for the non-programmers, but also serves as a handy reference once you become comfortable with Java's syntax and the art



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

of playing around with JavaScripted Web pages.

Part one offers suggestions on the best way to learn the language depending on your programming skills. You can begin writing simple JavaScripts once you complete this part of the book.

Part two gives an in-depth understanding of the language and its syntax such as JavaScript's built-in objects, working with data strings, numbers and dates, control structures, operators, and custom functions, all appropriately illustrated. Key pages feature phone-book style footers to easily locate information on JavaScripting terminologies.

Different methods of implementing JavaScript into applications, followed by lots of debugging tips, make up the third part of the book. Other topics discussed include data entry validation, tables, frames and windows.

The last four chapters are devoted to complete JavaScript applications using Netscape Navigator 2.0. Incidentally, Navigator 2.0 uses Hot Java, Sun's own Java-capable browser. Sample applets include a Lookup Table, an Outline-Style Table of Contents, Decision Helper, Calculations and Graphics (see alsohttp://www.dannyg.com for more applets and how well they work).

There is also a comprehensive Quick Reference Guide on the JavaScript's language and resources available on the Net. The accompanying CD-ROM contains sample HTML scripts, a gallery of textures, and icons; demo versions of Macromedia Director, Adobe PhotoShop, and Netscape plug-ins such as LiveUpdate Crescendo.

Pinaki Ray

JavaScript Handbook

By Danny Goodman

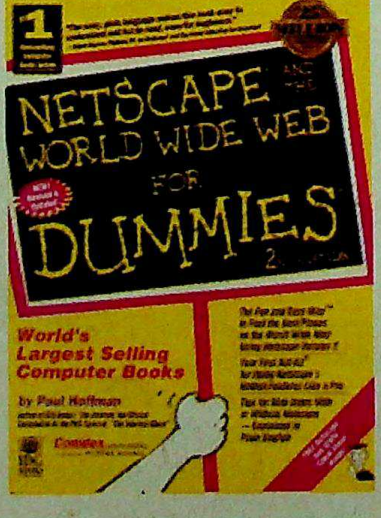
IDG Books Worldwide
519 pages, $34.99
RQS #E0637

Learning To Cyber Teach

The first three sections that make up the main chunk of this title contain what most books on the Net do—a brief history on Net's origins, getting connected, Net tools, on-line services, the World Wide Web, e-mail, news groups, Telnet, FTP, Gopher and other Net rodents, netiquette and so on.

But perhaps what makes this book unique is that it is the first to introduces terms such as CyberTeachers, CyberLearners, and CyberJourneys to add flavor to the netiquette vocabulary. Although there are several examples that would benefit CyberTeachers, only after the last quarter do you actually enter the classroom. Teachers can plan on-line experiences and CyberJourneys, and learn how to manage time on-line for students of different age groups and taste, as well as for educators.

There are ideas on how to use e-mail and mailing lists, and the recommended sites for different subjects. The chapters on interesting mailing lists, Usenet newsgroups, Gopher, FTP and Telnet and Web sites for educators, as well as those for educational, reference and fun adds a new dimension to this title.



If someone really needs to learn to teach Net basics, this book is an ideal pick. The accompanying diskette contains some Mac software, such as Eudora, for use on the Internet. Ironically, most Indian users access the Net through PCs.

The Internet For Teachers

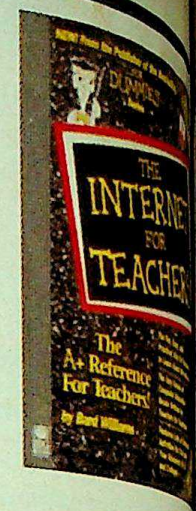
By Bard Williams
IDG Books Worldwide
350 pages, $19.99
RQS #E0636

Netscape And The Web

This book is for newbies, and is not about Netscape per se, but really the Internet and in particular the World Wide Web. Apart from a bit of Net history, and an overview of the Web, the book also provides an extensive guide on getting connected, along with a list of nearly all the server and client software required. It also help you in using HTTP and other methods to access different services.

TCP/IP and Web browsers are discussed, before two chapters exclusively devoted to Netscape. These tell you where to get Netscape, how to install and set preferences, follow links, fill in forms, read Usenet news and e-mail. Also outlined is searching the Net with Archie, Gopher and Veronica.

There is also useful chapter on Netscape-specific error messages. These include "What is happening when nothing is happening", problems related to wrong server names, 'Netstorms' indicating



bad weather on the Net, images that don't work.

A search in the ch... the Web features some ...ies and catalogs ... sample sites for differ... ics.

There is a section o... ing For People which ... where to get games, ... net crafts, and enterta... Web Ways To Shop d... the Internet Mall, Mar... and other shopping ... Topics like e-zines, ... finance, education, ... have also find a place ... title.

With "it's just like ... processor—but comple... ferent" does Hoffman ... duce you to HyperText M... Language (HTML)—the ... ring tool for publish... pages. A couple of ... are enough to guide ... designing your own ... page. The Web of th... with all HTML's impli... and multimedia are ... before the author co... with the 10 things ... can't expect from the ... a list of 10 charming ... visit.

Netscape And The Web

By ...

Comdex Computer ...
382 pages, ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

SHYAM MALHOTRA
PRASANTO KUMAR ROY
GOVIND MENON
ATUL CHITNIS
GAUTAMA AHUJA
VIJAINDER K THAKUR

KRISHNA KUMAR
ASAWARI KETKAR
MOHAN SINGH BIST

VENAYAK BHATNAGAR
ASHOK GUPTA
VISHAAL BHATNAGAR
RAJINDER
MADAN M SINGH
ANIL KUMAR BHATIA

ARUN SHANKAR
PAL SINGH
T SRIRENGAN
DIGAMBER PRASAD
JOSE PM
ALOK KUMAR SHARMA
VIJAY NAGRATH

E ABRAHAM MATHEW
BALAJI N
SRINIVAS AGNIHOTRI

HOSHIEDIAR GHASWALLA
SUDHIR VALVARA
RUPA L NATHANI
CHANDAN NAIR

PARTHA P BANERJEE

T N PRABHU
MEGHNA BHATIA
YOGESH WADHWA

KRISHNA RAO
S SUBHA

ANIL KUMAR R

...CHSHEEL ENCLAVE, NEW DELHI 110017. ✆ 6433999, ... 6413998 FAX: 11-6475765.

...CHSHEEL ENCALVE, NEW DELHI 110017. ✆ 6433999, ... 6413938. FAX: 11-6475765.

...FLOOR, MBC, 134 INFANTRY ROAD, BANGALORE 560001. ... 2868238, 2869872, 2866927. FAX: 80-2862971. ... CHAMBERS, 577 S V ROAD, BANDRA, MUMBAI 400050. ... 6450050, 6450051. FAX: 22-6403986. ... BUSINESS CENTER, GND FLOOR, 233/3 AJC ... CALCUTTA 700020. ✆ 2471285. ...GHOOT, 94 NEHRU PLACE, NEW DELHI 110019. ... 6411892. FAX: 11-6476664. ...D 12, 5TH FLOOR SRINATH COMMERCIAL COMPLEX, ... HYDERABAD 500003. ✆ 848121. TLX: 0425-6105 ... FAX: 41-816960. ...FLOOR GUNA BUILDINGS, 304/305, MOUNT ROAD, ...PET, MADRAS 600018. ✆ 459498. FAX: 44-8252828.

...ished by Pradeep Gupta on behalf of Cyber Media ... 610 Meghdoot, 94 Nehru Place, New Delhi 110019. ... TLX: 031-71344 INDO, and printed by him at Sahara ... Communications, C-3, Sector 11, NOIDA 201301.

...ual subscription:
... Rs 240 (1 Year) Rs 450 (2 Years) 630 (3 Years).
... is for outstation cheques).
... 240 (airmail).
...e following: CYBER MEDIA (INDIA) LTD.
...ted in India: Mirchandani & Co, Bombay.
...rights reserved. No part of this publication may be ...duced by any means without prior written permission. ... is not responsible for unsolicited manuscripts.
...phone 011-6221734 [Modem: 14,400 bps, N81]
...: pcq@giasbm.com
...Design: Media Workshop

LEADING EDGE

PRASANTO K ROY

In The Shadow Of the Net

When you read this editorial in July 2001, will it be printed on paper? Will you hold a copy of PC Quest in your hands and turn the pages?

Or will you wake up in the morning to misty memories of morning newspapers rolled up in rubber bands, as you switch on your Internet PC?

As a first step, there's the "newspaper on demand". In some US restaurants today, you can print out an electronically updated copy of an Indian community newsletter by dropping a coin into a slot. This is focused news on demand for those who don't have Web access, or for those strolling by a restaurant.

Beyond that, today, there's enough reason to seriously debate on whether the existence of the print media as we know it is affected by the shadow of emerging technologies. Is the Fourth Estate threatened by the Internet?

At a recent US Internet Association event, Michael Hauben, a Columbia University professor who wrote the online book *Netizens*, said the Internet presents journalists with the same challenge that monks who copied manuscripts faced from Gutenberg's first book.

Grassroots "reporting" through Usenet newsgroups and electronic mailing lists will begin to push the professional news media aside, as people discover they can get more diverse information on the Internet.

People who participate in Internet newsgroups regularly say they get more useful information from there than they could from any newspaper. And the ownership of print media outfits by big corporations makes their objectivity suspect.

It's impossible for any person or organization to control the Internet or any discussion on it. And unlike the traditional media, which merely publishes a lot of information, the Internet makes possible open debate.

What's wrong with the Net today as a news medium? Mainly, this very democracy. Anyone can say anything, leading to a mass of disorganized and not always accurate information. Today, when we look for information online for a PCQ article, we have to sift through a great deal of information on our own. But in the end, it's always worth it.

Journalists *will* survive the Internet. In fact, they will rapidly evolve the media as we know it, and integrate online services. But once enough people have online access and it all becomes easier to use, their role in disseminating news will become secondary to that of the unofficial news exchanges of the Usenet newsgroups.

In June, Intel's team of three engineers, Federico Faggin, Ted Hoff, and Stan Mazorwho, built the 4004 chip in 1971 were reinstituted by the US Patent office as co-inventors of the microprocessor, and named to the US Inventors Hall of Fame.

In 1969 a now-defunct Japanese calculator maker, Busicom, asked Intel to design a set of five chips for a family of calculators. Hoff decided instead to compact the set into a single chip. Busicom sold 100,000 calculators based on the 4004 chip and then, in one of the worst business decisions ever made, sold the rights back to Intel for $60,000. The rest is history.

Some 212 million microprocessors and 3.1 billion related microcontrollers were sold in 1995. Within tiny palmtop PCs which have a single highly-integrated microprocessor, to the fastest computer on the planet, Hitachi's SR2201 supercomputer whose 1,024 RISC processors crossed 220 billion math operations per second in June.

Today, thanks partly to Intel and its Pentium campaigns, the microprocessor has achieved the status of a branded, mass-market commodity product.

PKR

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

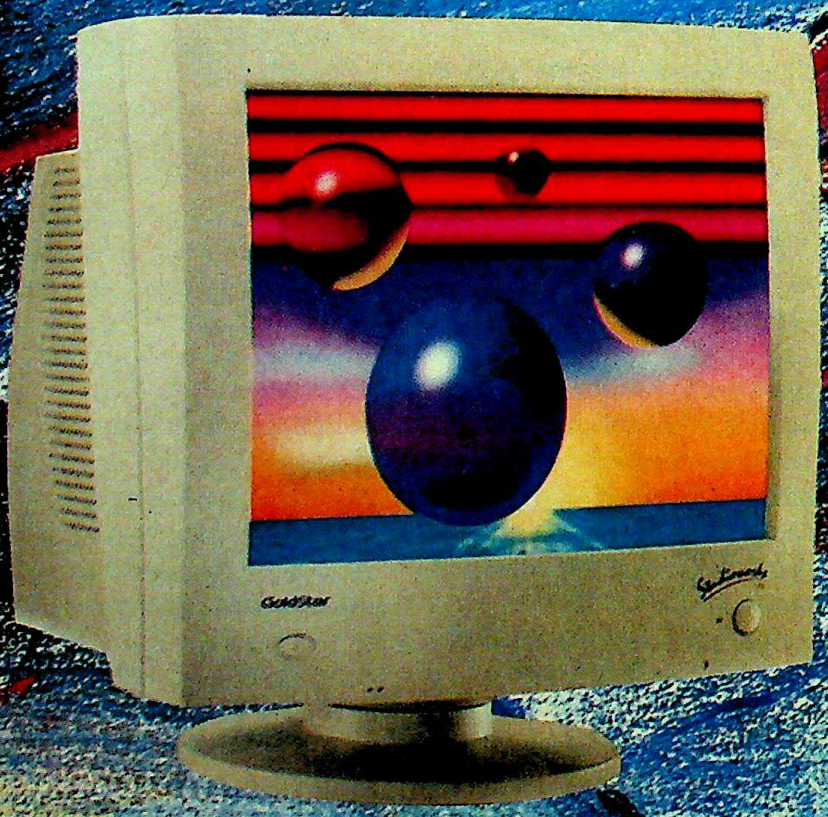
Because the sky is the limit !

New Studioworks

COLOUR MONITOR RANGE

from

LG GoldStar®



STUDIOWORKS 44m, 15" MULTI-MEDIA COLOUR M

STUDIOWORKS 56m, 15" MULTI-MEDIA COLOUR M

STUDIOWORKS 56L, 15" COLOUR MONITOR

STUDIOWORKS 76L, 17" COLOUR MONITOR

STUDIOWORKS 20L, 20" COLOUR MONITOR

Also Available : 1467 14"/36 cms) Colour CD-ROM DRIVES - 4X, 6X

Extra-performance colour monitors designed for the most demanding applications. Goldstar Studioworks Colour Monitors : For vivid, easy on the eyes, high-contrast, flicker-free imagery. For compatibility with a wide variety of graphic controllers. For high-resolution 0.28mm dot pitch. And a host of other benefits, which have made Goldstar a world leader in the field.

- Fully Non-Interlaced.
- Autosensing 98-264 VAC Power Range.
- Wider video bandwidth.
- Unlimited Colours.
- EPA Energy Star, VESA DPMS Compliant.
- 1 year warranty.

adcircle

Brought to India by:

ADITYA PROMOTERS PVT. LTD.

Khemka Centre, DDA Building, 2-5 Nehru Place, New Delhi-110019. Phone : 6223810/3811, 6452211/2212. Fax: (91-11 [illegible]

BRANCH OFFICE: M.K. Bhawan, 89, Mint Road, Fort, Bombay-400 001. Ph.: 2692583, 2678872 Fax: (91-22) 2695152.

Available at : ■ **AHMEDABAD** • Ashtech Ph.: 6423532 • Third Wave Ph.: 467974 ■ **AMRITSAR** • Computer Associates (India) Ph.: 3660206 • Mediaman Ph.: 7[illegible] • Aash'nik Ph.: 327177 ■ **BANGALORE** • Vintel Systems Pvt. Ltd. Ph.: 3310080 ■ **BOMBAY** • Ashtech Ph.: 4963300 • Albit Electronics Ph.: 2650179 ■ **CALCUTTA** • Prosys Computer Ph.: 2281584 ■ **CHANDIGARH** • Kapoor Trading Ph.: 548114 ■ **DELHI** • Ghaziabad Computer Bazar Ph.: 3311269 ■ **GHAZIABAD** • [illegible] Communications Ph.: 6461994 • Kadam Mktg. Ph.: 5763030 • Micro Systems Ph.: 4622054 • Mangal Electronics Pvt. Ltd. Ph.: [illegible] Ph.: 711535 ■ **GOA** • Sparrow Micro Electronics Ph.: 555817 ■ **INDORE** • Friends Computer Ph.: 494073 ■ **JABALPUR** • Computer Bazar Ph.: 323[illegible] • Taurian Ph.: 360237 • Bits & Bytes Ph.: 366862 ■ **JALANDHAR** • Regional Computer Systems Ph.: 239842 ■ **JODHPUR** • Systech Peripherals Ph.: 36[illegible] • Lucknow Computer Shack Ph.: 226576 ■ **MADRAS** • Apex Computer Ph.: 4995667 • K.R.S. Electronics Ph.: 2342884 ■ **NAGPUR** • Astral Enterprises Ph.: [illegible] ■ **PATNA** • Graphic Traders Ph.: 651740 ■ **PUNE** • On-Line Technologies Ph.: 647363 ■ **RAIPUR** • Raipur Computer [illegible] ■ **SECUNDERABAD** • Reliance Peripherals Ph.: 817025 ■ **UDAIPUR** • Vardhman Computers Ph.: 414543.

• Goldstar is the registered trademark of LG Group

DEALERSHIP ENQUIRIES SOLICITED FOR UN-REPRESENTED AREAS

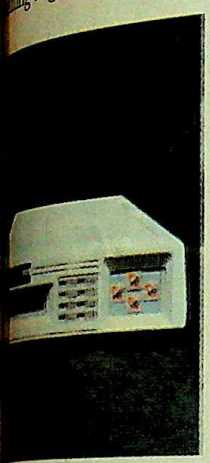
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...NLINE

...OTTY ABOUT ...EMS?

...ver the past two years ...ticed your snobbish at... ...e towards reviewing mo... ...s. After spending nearly ...0,000 for a PC, I'm now ...ning to get a modem and



...ternet connection. But ...st all modems reviewed ...gh-end (28.8 kbps) for ... Rs 20,000. That may be ... for freelance program... ...s and businesses, but a ...rist like myself neither ...s nor can afford this. ...n the other hand, I see ...rtisements offering ...ds, MNP 5 fax-modem ... for as low as Rs 5,000. It ... be nice if you could ... those offering better ...rmance at affordable ...

P Mehta
Mumbai, MH

...C Quest played a significant ... pushing the Indian user ...unity and market away from ...ps and toward 14.4 kbps ...ms, because of the sheer ...of what you could do with ...echnology and applica... ...hange rapidly, and just as ...e recommended 386 sys... ...and now recommend ...ms for many applications, ...ed on modems now is that ...ps is an acceptable and ...peed, and many services and BBSs don't go above that yet. But we recommend 28.8 kbps modems, because on-line time is money, and if you can save 50 percent of your time and money on a file download or e-mail session, it's worth it. The real driving force is applications and graphical Internet access through Netscape et al can really stress a 14.4 kbps modem.

With 28.8 kbps modems starting at Rs 10,000 on the street for internal units and Rs 13,000 for external units, it's a very good idea to go for them right now and you'll find that many of them perform better even at 14.4 kbps than do 14.4 kbps modems. However, the most important thing is quality and stability. So a good 14.4 kbps modem is anyway better than a poor 28.8 kbps.

Finally, we continue to suggest that users, especially home users, prefer external units over internal ones, as they're easier to set up, more robust in their operation, have indicator lights to show what's going on, and can be independently reset. However, we do occasionally review older and more basic modems, such as a 2,400 bps Tyin internal card reviewed recently. —Ed

---

TCP/IP ON THE SHELL

✉ In February, Comversations mentioned that VSNL had implemented a "limited shell prompt" at Mumbai. Does this mean that we can now upload and run the various IP emulator UNIX programs available. VSNL will soon have to give a full UNIX prompt if they want to retain their customers.

Can you start reviewing IP emulators? The April issue contained just a small paragraph on SlipKnot. But will SlipKnot fit (and run) in the 500 kB disk space allotted to each user by VSNL? And if I get a TCP/IP account, will this allow me full access to each and every newsgroup?

P Rao
Mumbai, MH

No, VSNL's restricted shell prompt is far more restricted than you're expecting. You can't run IP emulators like Slirp and Slipknot. The space is more than enough, but VSNL won't allow you to make the file executable and run it there, even though that would actually save them system resources and disk space.

However, things have changed on the pricing front. Now, with the 250-hour time limit doubled for TCP/IP accounts, the VSNL shell account costs you Rs 20 an hour, while the VSNL TCP/IP account costs only Rs 30 an hour. So it's really worthwhile to go in for a TCP/IP account. On such an account, you can indeed set up your own newsgroups, if you have a newsreader (there's one from Microsoft on last month's PCQ CD-ROM).

On a shell account, you can also search newsgroups through the Web such as by typing "lynx http://www.dejanews.com" at the UNIX prompt, and you can access newsgroups through other means outlined in Comversations in our February 1996 issue. —Ed

---

HIGH-SPEED GAMING

✉ I have just completed my Class X exams and am writing a software. This will assist gamers to access DOS and Windows games from Windows. You won't need to remember long path names, and there is a search facility to help locate specified program files and automatically link them with the user's description. The app is Win 3.x compatible, and accesses the games by "shelling" to them. Its search is nearly three times faster than Win 95's file and folder search.

I would like this to be reviewed in *PC Quest*. It could also be upload to PCQ Online as shareware.

Dhanji Prasanna
Bangalore, KT

You could either upload it directly to PCQ Online (11-6221734) in the PCQ forum, e-mail it to us (pcq@pobox.com), or mail it to us on a floppy. If we decide to review it, we'll also carry it on our next CD-ROM. —Ed

---

OLD ISSUES

✉ I am looking for an 1989 issue of *PC Quest*, that had an article on anti-virus products. I don't remember the month. If a spare copy is available, can you send it to me.

Aarti Singh
Pune, MH

Old issues are rarely available, though photocopies can be made available. However, unless you're doing historical research, a PC Quest article would be quite useless seven years later. Viruses, anti-virus products and technology, get obsolete in less than a year. Look for more recent reviews in PC Quest, and for the anti-virus shareware often given free with PC Quest (such as on last month's CD-ROM, and on the March 1996 CD-ROM). In any case, we're sending you a photocopy of the last cover story on viruses, in the August 1994 issue. —Ed

---

FOXPRO TIPS

✉ This is with reference to your response to B Baskar's query in February, about deleting .TMP files from a FoxPro window.

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The defect is not connected with the disk and will occur if you try to delete the .TMP files from the command window. These .TMP files, with random-number primary names, are created by FoxPro while running. When you quit FoxPro, these files are automatically deleted. However, a power cut or improper shutdown can leave such files intact and these should be deleted from the DOS prompt after exiting from FoxPro. For a better explanation see Charles Siege's *Mastering FoxPro 2* (BPB Publications, page 29).

Ratnakar Panigrahi and Gagan Satpathy
Bhubaneswar, OR

LATE DELIVERY

✉ As an avid reader of *PC Quest* and a news-stand buyer, I would like to thank you for not discriminating between us and subscribers. I have received all your CD-ROMs. But I would like to complain about the late arrival of the issues accompanied by CD-ROMs. Can this be tackled?

I often need certain articles from the magazine. Can I tear the particular pages without violating any copyright or rule?

Ajay V
Mysore, KT

We're trying to fix the CD-ROM delays from the Fall 96 CD-ROM in September, by getting the software in sooner. Till now, the software from vendors has been coming in very late (and the CD-ROM itself takes 20 days to create and replicate), thus creating severe delays in the magazine's despatch. For the current CD-ROM, however, the whole lot was stuck in Customs for seven days due to an unrelated problem involving another importer, delaying the magazine by the same period.

You're welcome to remove pages, or photocopy for personal or restricted academic use. You need PC Quest's permission only when reproducing any of the magazine contents in print on an electronic forum or board. —Ed

---

PCQ CD-ROM

✉ I have been reading *PC Quest* for the past two years. I have now decided to subscribe, but am afraid that my CD-ROM issues may be stolen in transit, and I'll have to buy these from the stands.

Since you have started

sending copies through couriers in some big towns, can't you also include Bhubaneswar? Alternatively, you can send subscribers' and vendors' copies together to your dealer for distribution through a local courier. This will not be very costly nor will there be any delivery delays.

Amiya Kanta Rath
Bhubaneswar, OR

We do have 300-400 complaints about any CD-ROM issues' erratic delivery. But among 50,000 copies, that's less than 1 percent, so we tend to simply replace the missing issues. We're exploring the possibility of using courier for other cities, but our present couriers do not service all those cities. Even a local courier would require some supporting infrastructure from PC Quest in those cities, which would get difficult to handle. —Ed

BACKGROUND FAX

✉ Is there any DOS-based fax/modem software that works in the background and is compatible with Fax Guard?

Also, can I distribute the contents of your CD-ROMs to readers without these drives, on floppy disks?

DP Jindal
Faridabad, HR

You can try Bitfax (which accompanies Bitcom, with many modem bundles). Overall, though, Windows is a far better platform for fax use, partly because of the smooth integration of the fax software as a print driver, and partly because of the utilities available.

You can indeed distribute PCQ's CD-ROM software on floppy, but shareware restrictions apply. You cannot charge for such distribution, except for media costs. —Ed

---

TELE DIFFERENCE

✉ Can you explain the major differences among fax, telefax, cable, grams and telexes?

Are there any instruments to reproduce glossy full-color photographs (scanned or digitally taken) without compromising on quality?

I've also noticed that you often fail to cover major international breakthroughs such as the Xerox's recently developed seven million pixel, razor sharp monitor. Is it because of deadlines or something else?

Jose Cyriac Manimala
Kottayam, KL

"Telefax" is simply a way of describing the use of the same phone line for voice and for fax sometimes through fax/data/voice auto-switch, at other times even manually. Cable and grams both describe telegrams. Telexes are pretty much out of date. They use 75 bps data lines, and output to teleprinter devices or on PCs.

They used to be po... newspaper estab... fax, e-mail and the ... replaced telex very ...

There are very ... graphic-quality print ... vices. One that com... dye-sublimation print... a low-resolution devic... 200 dpi), its proces... mation of dye vapors ... cial paper) gives a ... tone effect to the ou... gives it near-photogra... ity. Another option is ... recorder" to output fr... or Mac to 35 mm film. ... puts up to 4,000 lines p... 24 x 36 mm film frame, ... support enlargements ... little larger than postca... retain near-photo qu...

PC Quest tends to ... life technologies and p... especially those that ... viewed in PCQ Labs ... Xerox's paper-print q... play technology ac... several years later as a ... (probably by 2001), we ... it out. Till then, we ... glimpses of such ... technolgies, and tend ... only shipping product... "breakthroughs" hoist...

MISSING LINKS

✉ I'm glad to see Ani... back with Conversa... I feel that his articles ... becoming dry and ... And from January ... Help Screen, Swap, ... Reviews have disap... dislike Tasty Bits Fr... Technology Fro... Pricewatch, which is ... but wastage of precio... Your balance of arti... coming overly Int... ented. **Lalit Kum...**

Interestingly, the ... you mentioned has ... readership at presen... cause the Internet is ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

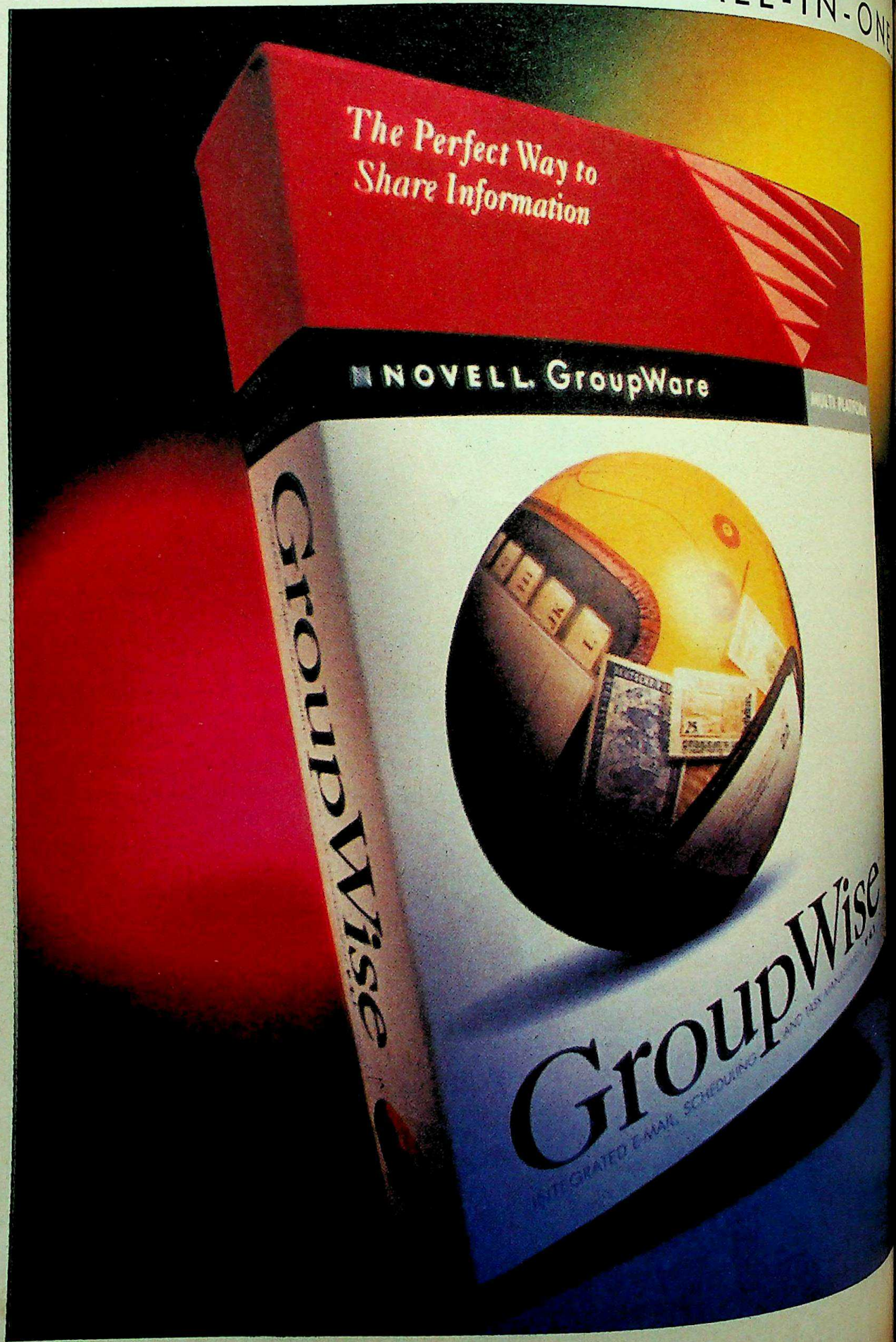
Digitized by Arya Samaj Foundation Chennai and eGangotri

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

GroupWise™

ABOVE ALL. BECAUSE IT'S ALL-IN-ONE



CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

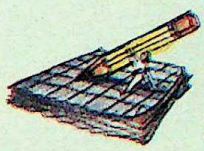
Digitized by Arya Samaj Foundation Chennai and eGangotri

GROUPWISE

INTEGRATED E-MAIL, GROUP SCHEDULING, PERSONAL CALENDARING, TASK MANAGEMENT AND MORE, ALL IN A SINGLE PRODUCT.

GroupWise Unifies

GroupWise is the first integrated enterprise wide workgroup information software solution. With GroupWise users can share and keep track of vital information that helps teams work together, even when they are physically separate.



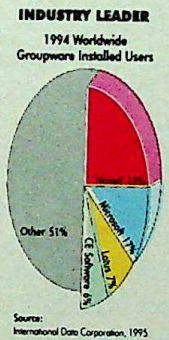
GroupWise works across virtually all networks, major operating systems and workstation platforms. GroupWise today supports vast number of gateways, giving you connectivity to almost all messaging systems available world wide. And it does so with features, other messaging systems neither have nor can compete with.

Universal in Box

Forget about checking here, there, and everywhere for messages. The GroupWise Universal In Box stores E-mail, calendar items, fax and voice messages, electronic documents, forms, video clips, and more all in one convenient place.

Unique Out Box

Take the uncertainty out of outgoing messages. The GroupWise Out Box lets you know when a message has been delivered, opened, delegated etc. It also lets you retract unopened messages.



Full Calendaring and Scheduling Functions

GroupWise scheduling feature automatically detects and resolves schedule conflicts for people and resources. It allows you to schedule a meeting with any number of people, accept an appointment, or decline, delegate or defer it. Or block out a much-needed vacation.

Task Management

Assign a task to a colleague, attach files to it if you want, then follow up to see when it was accepted and completed.

Rules-based Message Management

Set up GroupWise to automatically accept all appointments, sort and store incoming mail, and send replies to all incoming E-mail as to your whereabouts. GroupWise will automatically forward messages to you via pager when you're not at your computer.

6 Million Users

GroupWise is the industry's leading groupware product. GroupWise passed the 6 million-user mark with more than 2 million new users moving to GroupWise in the past 12 months alone.

	GROUPWISE	LOTUS cc:MAIL	MICROSOFT MAIL
In Box for all message types	YES	NO	NO
Out Box message tracking	YES	NO	NO
...gration for all clients	YES	NO	NO
...calendaring	YES	NO	NO
...scheduling	YES	NO	NO
...task management	YES	NO	NO
...gration with network	YES	NO	NO

For further details, please fill in the coupon below and mail/fax it to us.

Yes! I want a groupware product that is ABOVE ALL.
Please send me more details about GroupWise.

My Name: _____

Designation: _____

Company Name: _____

Address: _____

_____

_____

Tel: _____ Fax: _____

Get Wise. Get GroupWise.

GroupWise™

The Perfect Way to Share Information.

Novell.
Everything's Connected

ARD NOVELL
NOVELL IS NOVELL INDIA
Novell Software (I) Ltd., Marwah Bhavan, Saki Vihar Road, Saki Naka, Andheri (East), Bombay 400 072 • Tel: 8509764 to 68 • Fax: (91-22) 8504691.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Shutters/ON/378

Digitized by Arya Samaj Foundation Chennai and eGangotri

exciting stage in India. Pricewatch is a section that buyers find very valuable, and even we refer to it ourselves when we're buying products. We may, however, bring it down in size or frequency, because of the space it takes up.

Book reviews, Help Screen, et al haven't disappeared. They were dropped from some issues, for lack of space. —Ed

---

✉ I'd like to mention several points that detract from your March 1996 issue's otherwise excellent production.

Help Screen has vanished. I found this a very instructive column, for both beginners and experienced users. For those without a modem to connect to PCQ Online, this column was really useful. The list of BBSs in India given on page 81 is incomplete, and seems to concentrate on Delhi. Only one Bangalore BBS was mentioned, when there are four.

Vikram Bhide
PCQ Online

PENTIUM IMPERFECT

✉ This is with reference to your Build Your Own Pentium For Less than Rs 50,000 story in April. On page 57, the author mentions mini towers and full towers, but doesn't say a word about mid towers. These offer the best value for money, provide excellent space, and yes, they are available in India.

A mini tower with two floppy drives, a hard disk and a CD-ROM drive is bursting to capacity, with no room for further internal expansion. A mid-tower however does leave spare space for one more 5.25" device and one 3.5" device. Of course, you do have to look around for it a little harder, but it's there. Apart from the extra drive bays, mid-towers also run cooler by virtue of their larger size. Some also have space for extra fans.

On the same page, the author also states: "When upgrading or building a computer, get a motherboard with 32-bit ISA/PCI slots." ISA slots are 16-bit and not 32-bit. Then under "VGA Cards", he writes that "Standard VGA cards should have 1 MB VRAM, but high-resolution graphic accelerators should have at least 2 MB." Standard cards use DRAM not VRAM. I for one would be very interested in cheap, standard PCI cards using VRAM. High-end graphic cards use VRAM or WRAM (Windows RAM).

In your opening note you mention "Even if you're on a budget...inexpensive Pentium with 2 MB of RAM is something that...." As far as I know, the smallest 72-pin SIMM available is 4 MB. With Pentium-based systems, a minimum of two slots must be filled to boot the system. So, in effect, the minimum configuration that one can have with a Pentium is 8 MB RAM.

Ricky Kapur
PCQ Online

READING

✉ I am doing DOEACC's 'O' Level course in computer training at the Government Polytechnic for Women, Guntur. Is there any publication available that might help me.

K Srilakshmi
Chilakaluripet, AP

You won't find Indian computer publications specifically aimed at students, but many students do read PC Quest to stay in touch with the products and technologies that we review. Your best bet, for overall awareness, would be to read such mainstream computer publications and refer to the thousands of books available that more specifically cover the subjects that you're studying. —Ed

WRITING FOR PC QUEST

- ❑ Articles sent must relate to products, applications or technology relevant to the personal computer user
- ❑ They must be no longer than about 1,500 words unless specified otherwise by the Editor
- ❑ PCQ does not publish program listings, except for programs or modules illustrating a point within an article or short programs illustrating new or innovative techniques (e.g. SWAP)
- ❑ Every article must be accompanied by a signed letter stating that the article is original and is not offered for publication elsewhere
- ❑ Manuscripts should be neatly typed or printed, on A4 paper. Articles on floppy (3.5" or 5.25") in plain ASCII or standard word processor formats will be preferred. Articles can also be sent by e-mail to **pcq@pobox.com** or to the Forum of **PCQ Online** (11-6221734)
- ❑ Please ensure that the address is clearly printed both on the covering letter *and* on the manuscript. If a floppy is sent, affix a label containing the author's name and address. Also include a README.TXT file containing the same
- ❑ Letters to the Editor must be marked Readers' Forum, must carry the author's signature, name and address. Letters requesting information on general interest will be published with a response if necessary. We regret that we are unable to reply individually to Letters to the Editor, or Help Screen queries.

PRODUCT NEWS

To be considered for publication, a write-up for the Product News pages *must* include all of the following:

- ◆ Name, type and price
- ◆ Applications and target
- ◆ Full specifications, special features, advantages and limitations
- ◆ Availability of final, ready package: when and where
- ◆ The name and telephone number of the person who can be contacted for further details or a demonstration
- ◆ A product brochure
- ◆ A good B/W photograph, colour transparency, or a sample of the product
- ◆ The product must be available for demonstration somewhere in any of the four metros or in Bangalore.

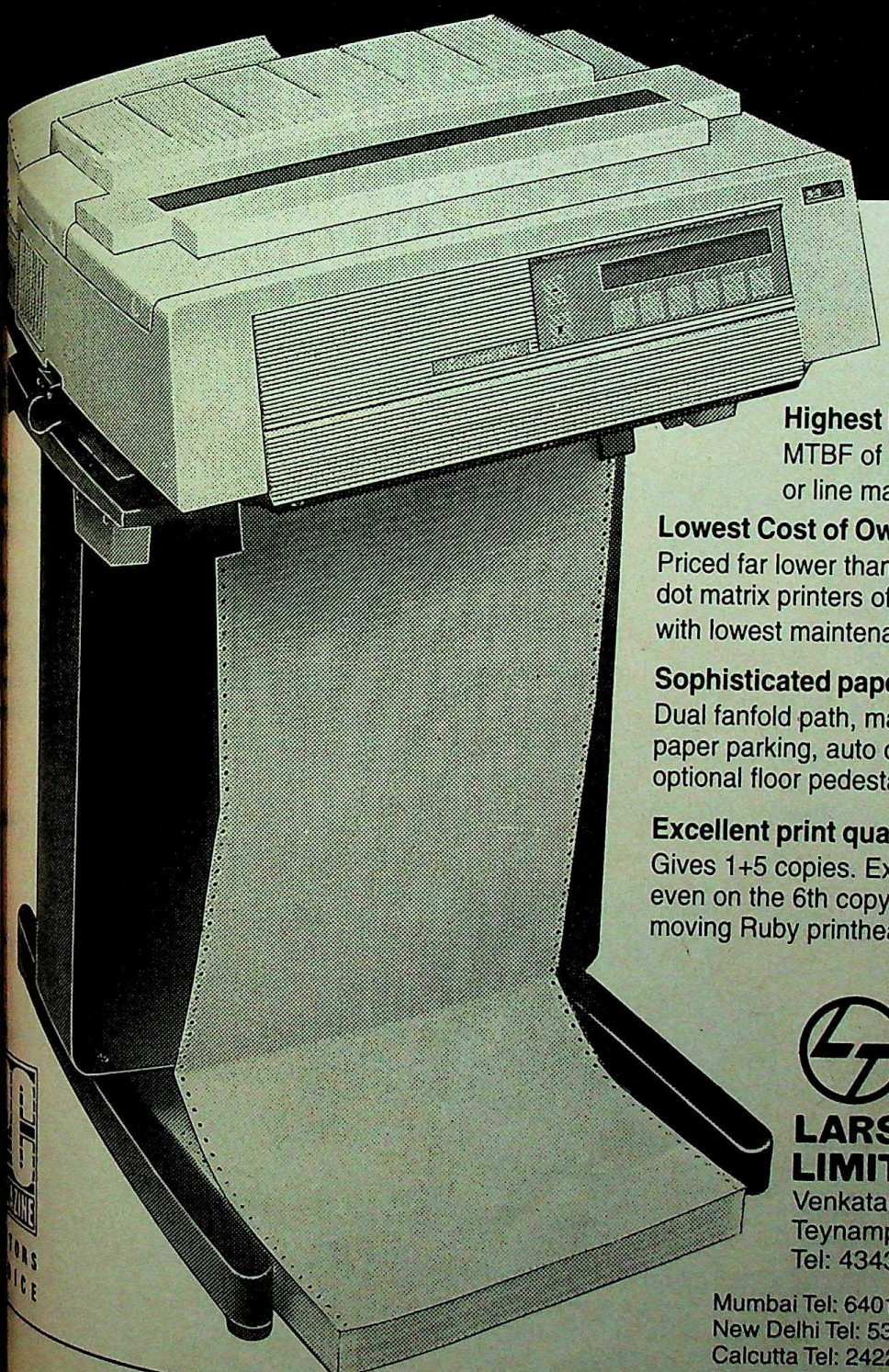
Standard press releases without these supports will not be considered for publication.

CC-0. In Public Domain. Gurukul Kangri Vishwavidyalaya, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Touch a new high at a low price...

with **Compuprint 970/1070** high speed printers from L&T



Highest Throughput
540 pages per hour*– equivalent to throughout of 220 LPM line printer – the highest among dot matrix printers.

Highest Reliability
MTBF of 9000 hours. Comparable to any line or line matrix printer of the same speed.

Lowest Cost of Ownership
Priced far lower than line, line matrix or other dot matrix printers of similar speed and category with lowest maintenance and running cost.

Sophisticated paper handling
Dual fanfold path, manual cutsheet feed, paper parking, auto cutsheet feeder options, optional floor pedestal.

Excellent print quality
Gives 1+5 copies. Excellent print quality even on the 6th copy due to AGA and 18-pin moving Ruby printhead technology.

*As per ECMA 132 Standard

For details, please contact:
Data Products Division

LARSEN & TOUBRO LIMITED
Venkataramana Centre, 563, Anna Salai
Teynampet, Madras 600 018
Tel: 4343309 ☐ Fax: 4342639

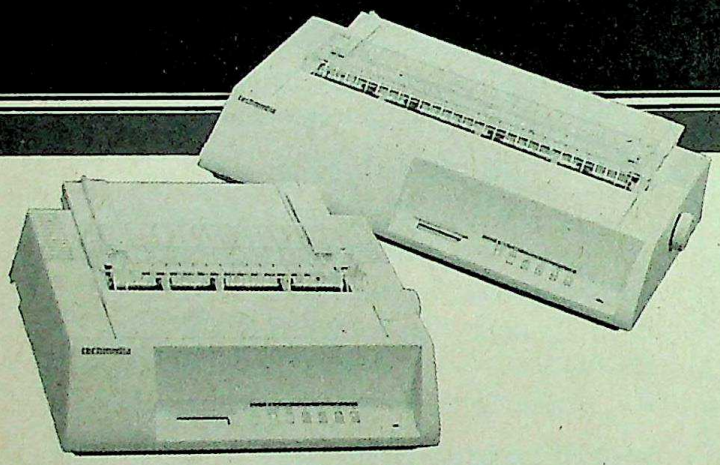
Mumbai Tel: 6401232 Fax: 6401312
New Delhi Tel: 531302 Fax: 5438624
Calcutta Tel: 2422301/5 Fax: 2426828
Madras Tel: 8522141 Fax: 8520769

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

There are times when even SANDUR printers stop working.

Power Cuts, Network System is down, All PCs in your office are attacked by virus, You run out of printing stationery, Entire EDP staff are on leave , You try printing without connecting your printer cable.....



TM 2411S/TM2416S

- Advanced 24 pin, 80 Col, 240 Cps/24 pin 136 Col, 240 Cps.
- LCD panel, 3 programmable menu selections.
- User friendly front panel operations, no confusing DIP switches.
- 6 Built-in fonts, 12 pitch selections.
- On line selection of font & pitch.
- Thermistor controlled print head.
- Paper parking/zero inch tearoff/quite mode.
- Built-in serial interface.

TM 2415C

- 24 pin, 136 col, 240 Cps Colour Printer.
- 4 Paper paths (Front, Bottom, Continous & Cut Sheet
- User friendly front panel operations, no confusing DIP
- 6 Built-in fonts, 12 pitch selections.
- On line selection of font & pitch.
- Paper parking/zero inch tearoff/quite mode.
- Built-in serial interface.
- EPSON compatible, low priced, longer life colour ribb

SANDUR ELECTRONICS

A Division of The Sandur Manganese & Iron Ores Limited

86/B, Industrial Suburb, II Stage, Yeshwantpur, Bangalore-560 022. Phone: 3376679, 3379981, 3372268. Fax: 080-337

Dealers: Amritsar: Data Bite (India) - 273029. **Ahemedabad:** Shivam Computer Pvt. Ltd. - 400914. Orbit Circuits - 466156. **Allahabad:** Micro Computers - 55 **Ambala:** Orbital Engineers - 440746. **Bangalore:** Computronix Inc - 2265903, 2202911, Chinmaya Computer Centre -3345063, Figaro Micro Systems - 2424301, S N Computers - PC Link System - 321614. **Bhopal:** Digital Maintenance Services - 767839. **Bhubaneswar:** CRAC - 417652. **Calcutta:** Silicon Infotech - 607793. **Cochin:** Data Han **Cannanore:** Microsoft Consultants - 60883. **Bombay:** Lanmark Systems & Services - 3851416. **Chandigarh:** Ideal Computer Care - 28613. **Dehradun:** Rana Enterp 373444. **Coimbatore:** Caps - 449161. **Cuddalore:** Sigmatech Electronics - 20634. **Davanagere:** Infotech Computer Systems - 22294. **Gwalior:** Marquis Computers - 626039. **Erode:**Perfect Technologies - 72024. **Gorakhpur:** N M Enterprises - 337021. **Gujarat:** Tornado Sales & Service - 2435. **Hubli:** Dinakar Marketing - 362627. C S **Hassan:** Interface Integrated Technologies - 69688. **Hospet:** Computer Embassy - 57609. **Hosur:** Figaro Micro Systems - 316359. **Jaipur:** Bits & Bytes - Communications - 367464. **Hyderabad:** Insight Computers - 290393. **Indore:** Rainbow Computers - 532352. **Jabalpur:** Inprint - 542679. **Kottayam:** ASCI Systems & Communications - 383958. **Jodhpur:** Shagun Electronics - 38017. Suncity Computers - 38017. **Kanpur:** Micro Soft Acc (P) Ltd. - 278196. **Madras:** Sigmatech Electronics - 22355. **Nagpur:** Systems Plus - 62894. **K.G.F.:** SS Electronics -55185. **Kochi:** Computer Bazar 355422. **Lucknow:** Micro Soft Ace (p) Ltd. - 542679. **Kottayam:** Base Computers - 22355. **Nagpur:** Systems Plus - Computech Pvt. Ltd. - 4943930. **Madurai:** C Plus - 540995. **Managlore:** C Net Systems - 428685. **Mayiladuythurai:** Pree Compuserve - 3289150. **Nasik:** NAS Computers - - 767131. **New Delhi:** Computer World - 3329745, CompuServe - 6432124, Hikita Computer World - 3552150, Star Lite Automations - 448504. **Shimoga:** Power Soft - Peripherals - 85 67486. **Rai Bareilly:** Pragya Computer - 803264. **Rajahmundry:** Micromatiks - 71702. **Salem:** Star Lite Automations -20947. **Trichy:** Rivera Computer Systems - 21124. **Secundrabad:** CTE Systems - 831744. **Surat:** Shree Rang Comuter - 426527. **Thanjavur:** Star Base Computers - 57204. **Varanasi:** Coins - 432118. **Trivandrum:** Kricen Computers - 463114. **Udaipur:** Vrdhman Computers - 414543. **Ujjain:** Mettle Communications - 312780.**Vishakapatnam:** Gayathri Computers - 546804. **Vijayawada:** Mist Computers -477620.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Search and you will find

The World Wide Web is huge, but thankfully there are ways of keeping your sanity while searching

We often hear of the term "Information Overload", or, as a colleague likes to say, "Informing yourself to death".

One of the most frustrating exercises these days is finding something useful on the World Wide Web. Not because there is so little, but because there is just too much. And not all of it is very useful. We have heard stories of people who say that the Internet is a waste of time—they are probably those who blindly dive in, aimlessly floundering around this ocean of information, rarely finding what they are looking for.

Just like the game of chess or MineSweeper (a vastly underrated game that comes with Win 3.x and Win 95), searching for information requires both strategy and a reasonable amount of logic. Just as wildly stabbing at squares in MineSweeper very quickly gets you blown, blindly "surfing the Web" gets you almost as much useful information as watching Doordarshan News.

Thankfully, there are several easily applied methods you can use to quickly find what you are looking for. They can broadly be classified under three headings: Strategy, Search Logic and Shopping List.

Strategy

Probably the first thing you should do is actually note down just what you are looking for. This simple step is probably the most commonly skipped one. Too many people just log on and start hunting, knowing only vaguely what they are looking for.

Sit down and carefully examine the objective.

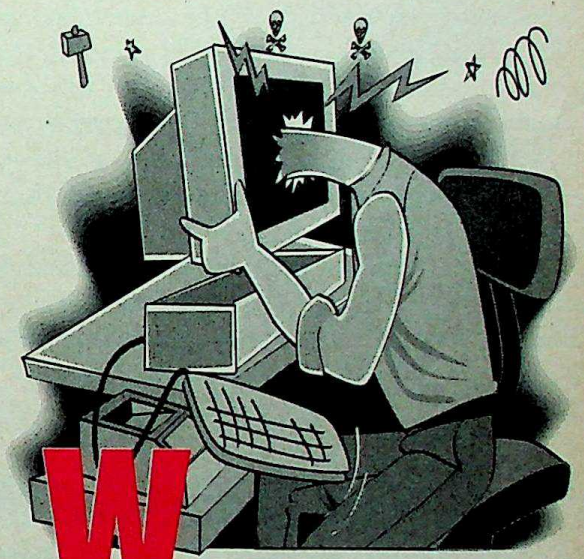
Is it the information you are looking for about a specific product?

If the answer is yes, then there is a good chance that you'll find this information on the product manufacturer's Web site—that is, if the manufacturer *has* a Web site. Most reputable companies do, so it is highly likely that going to www.companyname.com (where "companyname" is naturally the name of the manufacturer) will immediately get you on the right track. For example, if you are looking for information about a Microsoft product, then www.microsoft.com is a *nice* place to start. However, the manufacturer's site may not be the best place to get the information you are seeking. Often, popular products are supported on third-party sites. For example, the *best* Windows 95 support site is www.windows95.com.

How do you find such third-party sites? Often, the manufacturer offers a list of related sites (that support their product) available on their Web servers. After all, it is in their own best interests to do so.

If neither of these two approaches gets you anywhere, then you can try plan B.

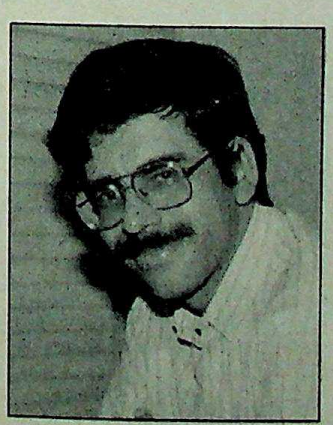
B: Are you looking for more generic information?



We have heard stories of people who say that the Internet is a waste of time—these are probably people who blindly dive in, aimlessly floundering around this ocean of information, rarely finding what they are looking for

In this case, you will have to make use of *Search Engines*—Web sites that are specifically meant to help you find things, based on parameters you supply.

Some of these sites are more *Index Based*—a list of indices, from which you select the item that best fits what you are looking for. This leads you to other indices, that get more and more specific until you find a list of information that is exactly (or very close to) what you are looking for. The most popular of such an index-based sites is www.yahoo.com—



Atul Chitnis is a datacom and network consultant in Bangalore. You can reach him at atul@iisc.ernet.in or via his web pages at http://ourworld.compuserve.com/homepages/achitnis

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

definitely the best place to start *any* search.

Other search engines are *Keyword Based*—you specify a few keywords that collectively describe what you are looking for, and the engines will kick out a list of addresses that *seem* to match your requirements. Some of these search engines are `www.altavista.digital.com` and `www.lycos.com`. Of these, the former seems to be the most comprehensive one, but these things change on a daily basis.

The third kind of search engine is *Concept Based*. Here, you describe a concept rather than supply keywords, and the search engine will dig out not only addresses that match the terms you have supplied directly, but will also show you addresses that may be related to the subject. A good example of such a site is `www.excite.com`. It lets you do both keyword and concept based searches.

Finally, you have the *Gateway Based* search engines. These aren't search engines at all—they are just front ends to other search engines. A good example of this is `www.search.com`.

SEARCH LOGIC

OK, now that we know where to search, let's focus on how to search.

Here is a classic mistake people make while searching for information:

You are looking for information about fashion. So what do you do? You go to `www.altavista.digital.com`, and in the keywords field, enter the word fashion and click on the Search button.

Seconds later, AltaVista returns with some 60,000 descriptions and addresses.

Happy? Initially, yes. But then you begin to realise that these 60,000 "hits" (as they are known) are almost completely useless to you—there are just too many, and not all of them point to information that is useful to you. In fact, almost all of them are useless.

Does the above example look familiar? Some people, after experiencing this, go back to traditional ways of searching for information, expounding the theory that the World Wide Web is useless.

But what exactly went wrong over here? Is the Web really useless? Or is it really the fault of your search method that is to blame?

Sit back for a moment, and consider what you are really looking for. Were you really looking for every reference there is about fashion, or were you looking for something more specific, such as "Men's [illegible]". Then why not say so?

So go ahead, and revise [illegible]. This time enter men's fashion [illegible] of just fashion. Quickly, [illegible] turns a much smaller list. [illegible]

No? You checked some [illegible] links, and found that they [illegible] tain "men's" or "fashion", [illegible] of them are really about [illegible] ion!

Well, you just discover[ed] AltaVista has treated your [illegible] rameters as separate words [illegible] located all pages that have [illegible] "men's" and "fashion" in them, but [illegible] together or in context.

What you need to do is tell the search [illegible] that you are looking for the term [illegible] fashion", not the individual words. [illegible] enclose the term or phrase in quotation [illegible] like this:

"men's fashion"

Another point—always enter search [illegible] completely in lower case. The search [illegible] will take this as an instruction to search [illegible] spective of case. If you use upper case [illegible] search engine will find only those words [illegible] are capitalized exactly as you have specified.

Now see what AltaVista returns—[illegible] Virtually every link displayed is relevant [illegible] your query, and you quickly find what you're looking for. Many of the links also have [illegible] to other pages that you may find interesting, [illegible] and you are tempted to find out what's [illegible]

It's time for the Shopping List.

SHOPPING LIST

When you are searching for information [illegible] the Web, you are likely to get distracted [illegible] fast. This leads to extended "Web surfing" [illegible] sions that become less and less productive [illegible] though wildly entertaining.

This is okay if you are doing this in [illegible] spare time, and have nothing better to do. [illegible] if you are searching for business related [illegible] mation that needs to be applied once you find [illegible] it, things are different. Your employer [illegible] even you yourself) aren't going to be happy [illegible] if you spend enormous amounts of time [illegible] After all, the Web is supposed to be a [illegible] an end in itself. The first few minutes of [illegible] ing can be highly productive, but as time goes [illegible] by, the productiveness begins to [illegible] start following links that have little to do with [illegible] your original quest.

So, you should write down very clearly [illegible] what you are looking for—do this even before [illegible] you go online. And once you have found [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PICK OF THE MONTH

A compilation of positions advertised between 29th MAY, 1996 and 9th JUNE, 1996 in various Newspapers.

COMPANY & LOCATION	EDNL. QLFNS., EXPERIENCE	WRITE TO:
TWARE COMPANIES		
RE PROFESSIONALS M SOFT PVT.LTD. BAD	B.E./B.TECH./M. TECH./MCA 1-2 YEARS	408 BAIBHAV KUNJ, 1-2-605 LOWER TANK BAND ROAD HYDERABAD-500080 (TOI BOM 8/6/96)
RE PROFESSIONALS N COMPUTERS PVT. LTD.	BE OR MCA 3-5 YEARS	UNIT NO. 2, SWASTIK MILL COMPOUND,SION-TROMBAY ROAD, CHEMBUR MUMBAI-400071 (TOI BOM 6/6/96)
T LEADERS NSULTANCY SERVICES	5-8 YEARS	THE CHIEF CONSULTANT PERSONNEL LOTUS HOUSE, 6 NEW MARINE LINES, SIR VITHALDAS THACKERSEY MARG, MUMBAI-400020 (HIN DEL 4/6/96)
RE PROFESSIONALS SOFTWARE ENGINEERING PVT LTD. ITZERLAND,SINGAPORE	2 YEARS	4/1,22ND CROSS,8TH MAIN,3RD BLOCK, JAYANAGAR BANGALORE-650011 (DCH BAN 3/6/96)
T LEADERS N IS LTD.	MCA/BE/ BACHELORS DEGREE 2 YEARS	89 N.MAIN ST.,MILLTOWN,NEW JERSEY USA-8850 (TOI BOM 2/6/96)
T LEADERS R PEOPLE INDIA LTD. BAD	3 YEARS	SOFTWARE TECHNOLOGY PARK, 504, MAITRIVANAM HUDA COMPLEX, S. R. NAGAR P. O. HYDERABAD-500038 (DCC HYD 1/6/96)
RE PROFESSIONALS ATED COMPUTERS CES INC.	B.E. 5 YEARS	UNIT NO. 149, SDF V, SEEPZ ANDHERI EAST BOMBAY- 400096 (HIN DEL 1/6/96)
COMPANIES		
SYSTEMS ANALYST TRACTOR & HEAVY RY COMPANY ARABIA	6 YEARS	MR. SINGAPURI , M/S AIRBORNE 101, M. G. ROAD , SHETTY HOUSE MUMBAI -400023 (TOI BOM 9/6/96)
ERS ATE DATABASE VERSEAS	6-14 YEARS	MS.MEENAKSHI SHENOEY C-10, DEVATHA PLAZA, RESIDENCY ROAD, BANGALORE -560025 (DCH BANG 7/6/96)
RE PROFESSIONALS NEERING AND TIVE CO. LTD. W	DEGREE IN ENGINEERING/ MASTERS IN COMPUTER APPLICATION 2-7 YEARS	MANAGER (HUMAN RESOURCES) CHINHAT DEVA ROAD LUCKNOW - 227105 (HT DEL 4/6/96)
IT PROFESSIONALS A TOUBRO LTD. AS	DEGREE IN ENGINEERING/ MCA/MSC.(COMPUTER SCIENCE) 3-8 YEARS	ASST. GENERAL MANAGER PERSONAL, GROUP IX: POWAI WORKS, SOUTH BLOCK POST BOX 8901 MUMBAI-400072 (HT DEL 4/6/96)
E PROFESSIONALS A BRITISH TELECOM LTD. PUNE	GRADUATES 2-5 YEARS	HRD. DEPT.UNIT NO. 102 , SDF IV, SEEPZ ANDHERI EAST BOMBAY-400096 (TOI ,BOM 3/6/96)
E PROFESSIONALS INFOMATICS PVT. LTD. A	GRADUATE IN ENGG. / POST GRADUATE IN COMP. SCIENCE 2-5 YEARS	DIRECTOR 31, CHOWRINGHEE ROAD CALCUTTA - 700016 (TEL CAL 2/6/96)
PROFESSIONALS COMPUTER SERVICES K, BOSTON, MILWAUKEE ELPHIA	BACHELOR / MASTERS DEGREE IN COMPUTER SCIEN./ ENGIN. 4 YEARS PROGRAMMING EXPERIENCE.	1 WORLD TRADE CENTRE, #2153 NEW YORK 10048 (TOI DEL 29/5/96)
E PROFESSIONALS HANI BOVERI LTD. RE	GRADUATES IN COMP. SCIENCES/ELECTRONICS ENGINEERING 2-3 YEARS	SR. MANAGER -HUMAN RESOURCES PLOT NOS. 5 & 6, II PHASE, PEENYA INDUSTRIAL AREA , BANGALORE-560058 (DCH BANG. 29/5/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

APPOINTMENTS

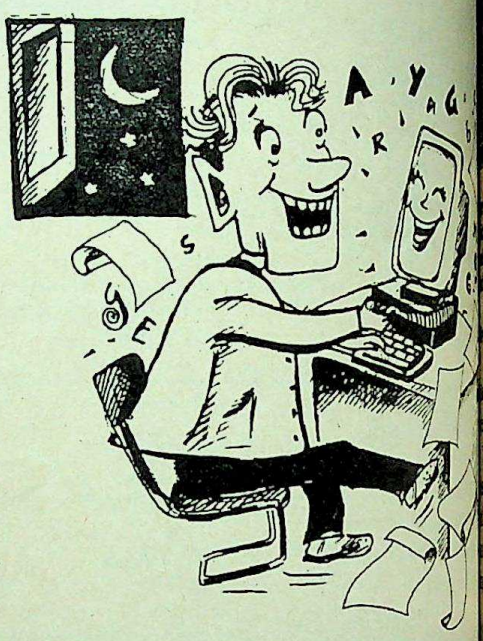
INDIAN BANKS' ASSOCIATION
Stadium House, 6th Floor, Block-3,
Veer Nariman Road, Mumbai 400 020.
Fax : 91-22-218 4222 / 283 5638.

INVITES

Software specialists / developers, Vendors of PCs and dedicated machines for development of *HINDI* or *BILINGUAL* application software for use in Banks.

Interested parties may forward details of their competence levels / experience / details of products already developed for consideration to Management Services Deptt., IBA, Mumbai within 15 days from the date of release of this advertisement.

DTP OPERATORS WITH A FLAIR FOR TYPE

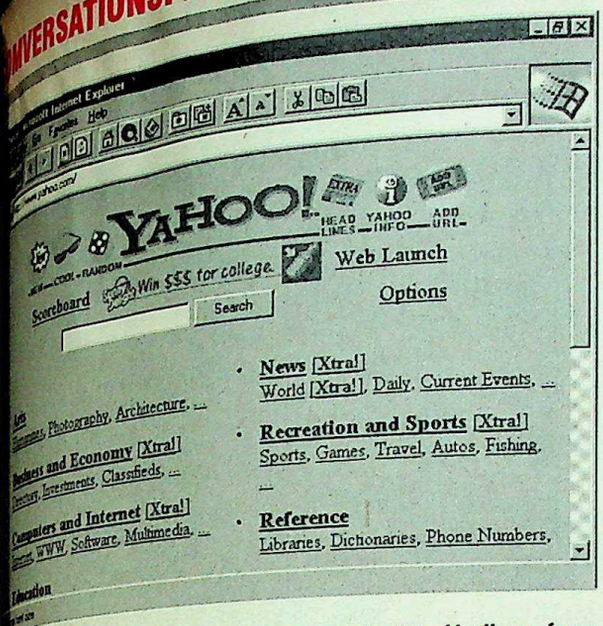


A leading New Delhi based magazine publishing firm needs DTP operators familiar with Type 1 fonts under ATM, application of process colors in Page Maker 5.0, Corel Draw 3.0, 4.0 and Magazine layouts. Operators need to have 2-3 years experience in such environments. Local candidates and excellent outstation candidates need apply to the address below;

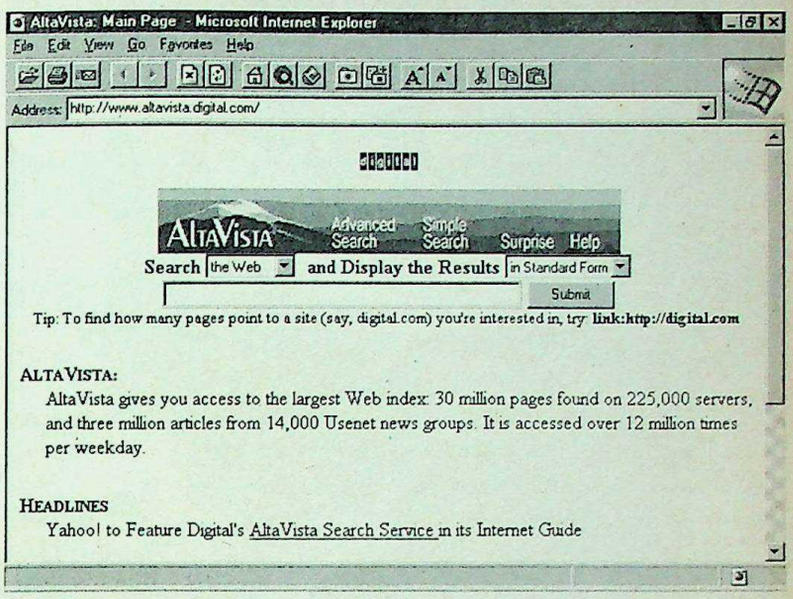
BOX No 250-95/3
VOICE & DATA,
701 Meghdoot, 94 Nehru Place
New Delhi 110019

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri



...of these sites are more Index Based—you get a list of indices, from ...you select the item that best fits what you are looking for. This ...you to other indices, that get more and more specific until you find ...information that is exactly (or very close to) what you are looking ... The most popular of such Index Based sites is www.yahoo.com—...by the best place to start any search



Other search engines are Keyword Based—you specify a few keywords that collectively describe what you are looking for, and the engines will kick out a list of addresses that seem to match your requirements. Some of these search engines are www.altavista.digital.com and www.lycos.com. Of these, www.altavista.digital.com seems to be the most comprehensive one, but these things change on a daily basis

...k mark against your list of objectives. Once ...y item is ticked, disconnect.

...is is not a new concept. People have used ...principle very effectively for ages. If you go ...shopping (especially in one of these new ...-it-all" supermarkets) without a clear shop-...g list, you might end up "browsing the shelves", picking up things that might interest you. In no time at all, you'll have spent more money (or, in case of Web, time) than you had actually planned to. This can have devastating effects on your household budget. Or your employer's confidence in the Web being useful.

For example, let's say that your objective was to find a list of 20 fashion houses abroad dealing with men's fashion. You want to contact them to explore the possibility of selling your fashion products to them. To do so, you need to know who they are, and what their e-mail addresses are.

So your "shopping list" might look something like this:

1. locate 20 fashion houses dealing with men's fashion.

2. get their e-mail addresses and other contact information.

Now, as you accomplish each objective, put a tick mark against each point on the shopping list. Once all of them are ticked, note down the results and disconnect.

Follow this often enough, and you'll find that the Web suddenly appears as a cost and time effective tool that you and your employers will never have to criticize as being a waste of time.

...CESSING SEARCH ENGINES

...There are two ways by which you can ...ess search engines:

...f you have a Shell account, select the ...r option. When the screen has settled ...n, press "g" and at the prompt, enter ...e URL of the search engine, say, http://...altavista.digital.com.

...f you have a TCP/IP account, fire up ...r World Wide Web browser (such as ...scape, Microsoft Internet Explorer etc.), ...type the URL into the Location field. ...Rather than giving you a long list of ...rch engines that you can access, I will ...t you to C|Net's http://www.search.com, ...ch is a front-end for most of the popular ...rch engines.

...Remember that not every search engine ...s the same results—experiment a bit ...you find one that suits your purposes. ...me search engines are more specific ...ntent than others. For instance, ...search.com has a list of such specific ...ines available, too, so it might make ...e to use those rather than some generic ...e.

WINDING DOWN.

That's it for this month. As always, keep your comments and queries flowing in. I cannot promise that I will reply to all of them, but they will help shape this column into what you want it to be. ■

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Software Ergonomics

A well-designed interface does wonders for operator productivity

Most of the new breed of accounting software are designed by those without sufficient EDP exposure. This results in packages that possess the peculiar quality of forcing data entry operators to work slower than their peak rate. While this might not affect firms with low data volumes, it definitely makes a whopping difference in transaction-heavy environments.

Let us examine the typical structure of a voucher. Normally, it contains two types of data—fixed information and a matrix of voucher lines. The fixed information contains fields like voucher number, date, a reference number, a reference date, a cheque number, cheque date (for bank-related vouchers) and a narration. The voucher line matrix comprises multiple lines containing at least three fields—account head, amount and a field for debit/credit check.

In the best case, the voucher number is automatically generated and requires no keystrokes, or the users just need to press the <Enter> key to move to the next field. In the worst case, the user has to waste six keystrokes. Similarly, for the voucher date, or the reference date, the best is no keystroke and the worst is eight. Usually there are no shortcuts for the reference number, and users need some six keystrokes to cross this field.

The cheque number and cheque date fields are present only in bank vouchers and may require between two to 16 keystrokes. The optimal case occurs in banking, where the cheque number can be generated automatically. A significant distinction occurs in voucher narration. If the package supports predefined narration, the operator needs an average of four keystrokes to browse through the list. Or it could be 30.

Even the number of lines in the voucher line matrix varies. An average of five lines per voucher is a safe estimate. Specifying the account head usually takes about four keystrokes in most packages. The amount is usually five keystrokes and the debit/credit field needs one keystroke. That brings the total to 10 keystrokes per voucher line or 50 keystrokes for our hypothetical five-line voucher.

Thus, it's been estimated that in the best case, excluding the cheque number and date fields, an operator needs 63 keystrokes to enter a voucher. In the worst case the number is 108. The difference is ridiculous. The worst ones need 171 percent more keystrokes than the best. Considering cheque number and date fields [illegible] best:worst ratio to 65:124 keystrokes, effectively double.

The picture painted above is [illegible] simplistic. Most modern-day accounting software goes beyond the simple voucher matrix and allows the user to attach [illegible] classification tags to each voucher line. In addition 'receivable/payable' information is also usually entered at the voucher [illegible] The penalties for poor design grow with each feature added to the package.

The same points apply as well to inventory and invoicing programs. The penalty—for a poor inetrface it could be as bad as 300 percent.

A common irritant in most packages is the strictly sequential nature of the edit cursor. For example a user might need to edit the quantity field of the 19th item in an invoice. Most packages will force the user to scroll down from the top of the invoice till he reaches that slot. A query-based feature is useful in such situations. ■

Intelligent information visualization can cut through data volume and complexity to reveal significant trends

Gautama Ahuja is a contributing editor of PC Quest. He also owns and manages AHC Infotek, a Delhi-based turnkey software development company. You can reach him at sga%dartnet@uunet.uu.net or via the COL forum of PCQ Online

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

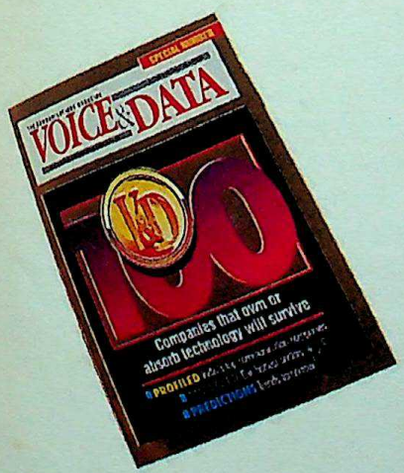
Digitized by Arya Samaj Foundation Chennai and eGangotri

COMMUNICATIONS MAGAZINE

VOICE & DATA 100

is back again

And why NOT!



Because you need the complete perspective.
Industry trends. Where the industry is headed. Where technology is headed. Facts. And the reasons behind those facts.

Because you need the unbiased perspective.
Special segment wise analyses. The Top 100 companies today. And another 150 who are steadily edging their way up.

And because now the industry expects it.
Out of us.
(And, frankly, why not?)

VOICE & DATA 100 WILL HIT THE STANDS THIS AUGUST.

ORD OF CAUTION !

happened last year. Copies of V &D 100 (1995) disappeared from the newsstands as soon as they hit the market! And going by the way the industry awaits this issue, these too will have disappeared if you are not fast enough to pick your own copy.

SO BOOK YOUR COPY AT THE NEWSSTAND NEAREST YOU. *TODAY!*

And why NOT?

ANDY DIRECT/CM/114

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE COMMUNICATIONS MAGAZINE

VOICE & DATA

100

is back aga

with its uniqu

advertisi

OPPORTUNI

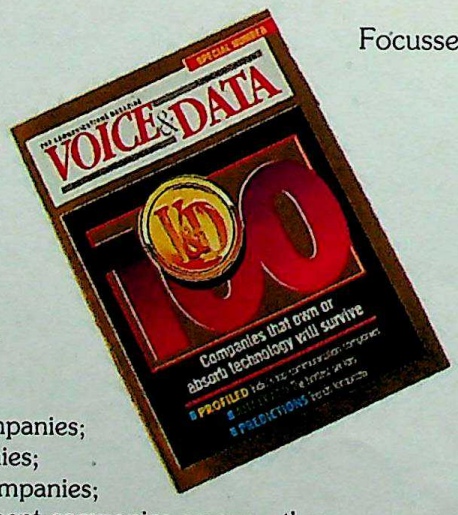
And why NOT!

Because it reaches lakhs of focussed readers.
Focussed readership estimated at nearly 200,000 for this issue
Including the thousands who make purchase decisions
And the thousands who influence these decisions
A reach that is national. And international.

Because it has a shelf life of 1 year.
The V&D 100 is referred repeatedly during its one
year shelf life. Because its editorial values
are highly rated by the industry &
corporate users.

And because the only other way to reach out
to so many at such a low cost is
by waiting for the next issue of V&D 100.

The VOICE & DATA 100
THIS AUGUST



The 1996 issue of V&D 100 will specially focus on:
Companies in Basic Services,
Cellulars & Paging;
Networking Companies;
Communication software companies;
Electronic messaging companies;
VSAT & VSAT equipment companies;
Office communication equipment companies among others.

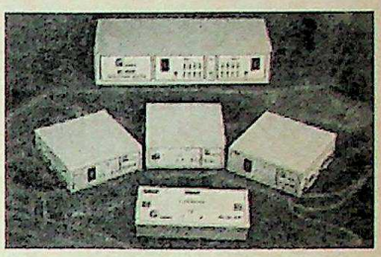
A WORD OF CAUTION !

This too happened last year. Many interested advertisers could not be accomodated as space got all sold out fast. And going by the way the industry awaits this issue, advertising space *is* limited. **SO BOOK YOUR SPACE TODAY** by contacting any of the following: **DELHI** RACHNA: PH. 6416315, 6476664 FAX. 6411692; **BANGALORE** BHAUMIK: PH. 2861511, 2868238 FAX. 2862971; **MUMBAI** CHANDAN: PH. 6427910, 6450050/51 FAX. 6403986; **MADRAS** ANIL: PH. 459498 FAX. 8252828; **HYDERABAD** KRISHNA: PH. 848121 FAX. 816960; **CALCUTTA** PARTHA: PH. 2471285, 406492 FAX. 2408423.

And why NOT!

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



A data switch lets PCs share multiple printers

T-n-P Lets 40 PCs share a printer/plotter. Maximum data transfer rate 100 kbps. **Price:** Rs 1,900 **Vendor:** Cigma Computers (India) **RQS#** 70001

Machine Operator Switches on fax, modem or any other machine at preset intervals. **Price:** Rs 4,500 **Vendor:** Systems Creator **RQS#** 70002

-Code Reader Portable bar-code reader designed to read the five most common bar-code types. **Price:** $300..7,500 **Vendor:** Square-D Electricals **RQS#** 70003

ort Console sharing device which helps six monitors, keyboards, and mice share a single PC. **Price:** Rs 19,600 **Vendor:** Cigma Computers (India) **RQS#** 70004

nectors A range of card, edge, flat cable and crimping connectors. **Price:** NA **Vendor:** Solid Electronics **RQS#** 70005

ST Printer sharing switch; does not need power supply. Works up to 5 meters. **Price:** Rs 700 **Vendor:** San Telequip Pvt Ltd **RQS#** 70006

Switches Lets multiple computers share one or more printers. **Price:** Rs 1,1000...1,8000 **Vendor:** Systems Creator **RQS#** 70007

Switches (201 A/M-801A/M, 102-802A/M) Printer sharer--lets up to eight computers work with two printers. **Price:** NA **Vendor:** Milestone Electronics **RQS#** 70008

Access System Lets two users share a PC, though only one can enter data at a time. **Price:** NA **Vendor:** Systems Creator **RQS#** 70009

Access System/VGA Multiplier Lets two users share a PC with an additional monitor, keyboard and mouse. **Price:** Rs 4,850..6,400 **Vendor:** Milestone Electronics Ltd **RQS#** 70010

Printer Sharers Lets four PCs share two printers simultaneously. **Price:** Rs 3,500 **Vendor:** Rising Edge Systems **RQS#** 70011

Interface Intelligent device which interfaces GPIB peripherals to serial port, and vice versa. **Price:** Rs 10,000 **Vendor:** Creative Micro Systems **RQS#** 70012

Interface Compatible with National Instruments GPIB PC IIA. **Price:** Rs 10,000 **Vendor:** Creative Micro Systems **RQS#** 70013

Monitor Adapter On prolonged keyboard inactivity, cuts off power to monitor, and restores it on any key-press. **Price:** Rs 1,100 **Vendor:** San Telequip Pvt Ltd **RQS#** 70014

Converter Intelligent device to interface Centronics peripherals to serial ports and vice versa. **Price:** Rs 4,500 **Vendor:** Creative Micro Systems **RQS#** 70015

Mousepads/Printer Ribbons A variety of mousepads and printer ribbons. **Price:** NA **Vendor:** Betterdeals **RQS#** 70016

Printer Server Allows printer-sharing on a network. Available with UTP/BNC ports. **Price:** Rs 11,000 **Vendor:** Nexus Computers **RQS#** 70017

Sharer Lets four computers share three printers, with code-operated switch selection. **Price:** Rs 7,500 **Vendor:** Creative Micro Systems **RQS#** 70018

Sharer (AL261 & AL461) Printer sharers that work with laser, inkjet and DMPs. **Price:** Rs 500 (AL261); 900 (AL461) **Vendor:** Ranka Data Products **RQS#** 70019

Sharer (Serial) Lets computers share a plotter or printer via the serial port. **Price:** Rs 1,787 **Vendor:** Datamarg Systems **RQS#** 70020

sharer (PS21MA) Lets two PCs share a printer. **Price:** NA **Vendor:** Datamarg Systems **RQS#** 70021

Modular Converter With this, a 30-pin SIMM can be used in 72-pin socket. **Price:** Rs 990 **Vendor:** Cigma Computers (India) **RQS#** 70022

n A system switch which lets a VT100 terminal switch between various computers. **Price:** NA **Vendor:** Cygnus Microsystems Pvt Ltd **RQS#** 70023

y Password protected hardware lock which fits onto the parallel port; offers three security levels. **Price:** Rs 750 **Vendor:** Wyse Systems **RQS#** 70024

Port Isolator Protects serial ports of CNC machines and minicomputers against electrical disturbances. **Price:** Rs 5,500 **Vendor:** Creative Micro Systems **RQS#** 70025

Sharer Automatic serial-sharer for RS232C serial printers, plotters and modems by four computers. **Price:** Rs 5,000 **Vendor:** Creative Micro Systems **RQS#** 70026

Access Allows sharing of CPU between two monitors and keyboards. Supports a maximum distance of 20 metres. **Price:** NA **Vendor:** San Telequip Pvt Ltd **RQS#** 70027

Switch Plus Includes 8 serial and 2 parallel ports, 1 MB buffer and a memory resident CMSCOM software. **Price:** Rs 28,000 **Vendor:** Creative Micro Systems **RQS#** 70028

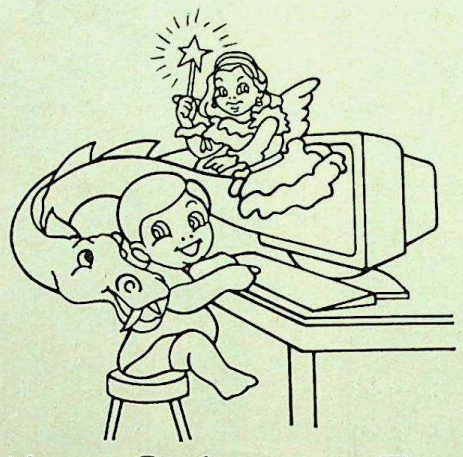
link Establishes link between computers and peripherals; automatically scans input data and spools to memory up to 4 MB. **Price:** Rs 14,000..25,000 **Vendor:** San Telequip Pvt Ltd **RQS#** 70029

Video multiplier--takes a single video input and gives six video outputs. Useful for public demos, stock market, etc. **Price:** Rs 10,290 **Vendor:** Cigma Computers (India) **RQS#** 70030

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

EDUCATIONAL SOFTWARE FOR KIDS



Mathematics, Science, English etc.
on Floppies & CDs
for 4 to 14 yrs old students

Knowledge Ware India

2, Khetani Industrial Estate,
106, Bazar Ward, Kurla, Mumbai-400 070
Tel : 514 1428, 408 2333. email : dilip.kwi@axcess.net.in

BRANCH OFFICE : B-14 Nobles Chambers, Ashram Road, **Ahmedabad** 380 009, Tel : 402 463, 408 969

DEALERS :

MUMBAI : Computer Point, Tel : 493 59004, 494 8380 ● Kaytronics, Tel : 624 4248 ● Compucraze Tel : 821 9287, 3[illegible] 2171 ● Network Computer Institute, Tel : 881 4141 ● Systems Management & Services, Tel : 3083685, 308 8681 **NEW ULHASNAGAR** **MUMBAI** : Pragnya Distributors, Tel : 767 0479, **THANE** : JSP Computers, Tel : 533 0376, 533 0388 ● Omkar Computers Supercomputer Consultants, Tel : (0251) 550095 **PUNE** : Quality Computer Services, Tel : 624049 ● Tel : 344086, 369877 ● Child's Play, Tel : 622998 ● Abcons , Tel : 430383, 423996 **NAGPUR** : The Service, Tel : 5411[illegible] **JALGAON** : Rustomji Infotech Services, Tel : (0257) 25216, 23054 **SATARA** : Raviraj Info System, Tel : (02162) 2441[illegible] 24439 **MIRAJ** : Mr. M. S. Deshmukh Tel : (0233) 221 029 **AHMEDABAD** : Parthiv Shah, Tel : 402 463, 408 96[illegible] **SURAT** : Intelligent Knowledge Based Sys., Tel : 476347 **NADIAD** : Prerna Computer Services, Tel : 24606 **BARODA** Devpras Inst, Tel : (0265) 336997 **INDORE** : Computer Concepts, Tel : 533670, 433670 **GWALIOR** : Dot Infotech, Tel : (0751) 26025 **CHHATARPUR** :Infinity Inst. of Info Tech, Tel : (07682) 31472 **JAIPUR** : Compugraph, Tel : 511807 **MADURAI** : T. S. Computers, Tel : 24477 **KUMBAKONAM** : Computer Instruments, Tel : 31445 **PUNJAB : BATHINDA** : Brar Computers (P) Ltd., Tel : (0164) 212849 **MADRAS** : Indian Infosys, **BODINAYAKANUR** : Rajan Agencies, Tel : (04546) 2073 **SECUNDERABAD** : Mohan Marketing Assoc, Tel : 846863, 849929 **DUBAI** : Softools Middle East, Tel : 971-4-66[illegible] **U.K.** : Kats Computers, Tel : (0181) 9511665

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ch Beta Double Speed CD-ROM Drive Double-speed CD-ROM drive with 300 kbps IDE interface. **Price:** Rs 5,800 **Vendor:** Digital World India Ltd **RQS#** 70031

ch Zeta Quad Speed CD-ROM Drives Quad-speed CD-ROM drive with 600 kbps IDE interface. **Price:** Rs 11,000 **Vendor:** Digital World India Ltd **RQS#** 70032

ch Zeta Six Speed CD-ROM Drives Six-speed CD-ROM drive with 900 kbps IDE interface. **Price:** Rs 14,500 **Vendor:** Digital World India Ltd **RQS#** 70033

Server Multi-CD-ROM server that connects directly to Ethernet local-area networks. **Price:** Rs 62,000 **Vendor:** Nexus Computers Pvt Ltd **RQS#** 70034

Shuttle Portable CD-ROM drive that can be plugged into parallel ports; has built-in controller. **Price:** Rs 35,700 **Vendor:** Nexus Computers Pvt Ltd **RQS#** 70035

ROM RECORDER Lets you create your own CD-R archives or masters with audio/video data in DOS, Windows, Mac and UNIX. **Price:** Rs 3,000 **Vendor:** Sentronix **RQS#** 70036

sonic CD-ROM Drive Standard internal CD-ROM drive. **Price:** Rs 6,000 **Vendor:** Alpine Computers **RQS#** 70037

Writer PCD-600 6X CD Writer with SCSI interface. **Price:** Rs 1,293,240 **Vendor:** Kodak India **RQS#** 70508

Surestore 4020i CD-Writer CD Writer, 4X CD Reader, 2X CD Recorder. **Price:** Rs 79,500 **Vendor:** Spectra Innovations (India) Pvt Ltd **RQS#** 70509

CD ROM CDU 77E quad-speed CD-ROM. **Price:** Rs 6,500 **Vendor:** Apex Computers Pvt Ltd **RQS#** 70038

CD ROMs, Optical Disk Drives CDU 77E quad-speed CD-ROM. **Price:** Rs 6,500 **Vendor:** Apex Computers Pvt Ltd **RQS#** 70039

CD-ROM Drives Quad-speed CD-ROM drives. **Price:** Rs 5,250 **Vendor:** Jaydee Electronics **RQS#** 70040

store-CD ROM External Drive SCOOF400-PES External parallel-port CD-ROM drive. **Price:** Rs 11,000 **Vendor:** Spectra Innovations (India) Pvt Ltd **RQS#** 70041

store External CD Writer SC004020-SES External SCSI Interface with CD-Writer, 4XCD Reader and 2XCD Recorder. **Price:** Rs 100,000 **Vendor:** Spectra Innovations (India) **RQS#** 70510

ACCESSORIES: KEYBOARDS

aan Keyboard 101/102-key mechanical keyboards. Certified by ETDC, ERTL, STQC and FCC. **Price:** Rs 1,450 **Vendor:** Armaan Electric Ltd **RQS#** 70042

puter Keyboard Including Windows Keyboard Membrane-type keyboards. Suitable for Windows apps. **Price:** Rs 950 **Vendor:** Compkeys Ltd **RQS#** 70043

puter Keyboard Model SG-1000 Keyboard with tropicalized membrane meeting LIL/FCC standards. **Price:** Rs 750 **Vendor:** Industrial Adapters **RQS#** 70044

4200W AT, PS/2 compatible keyboard with three additional keys for working in Win95. **Price:** Rs 1,495 **Vendor:** HCL Peripherals Ltd **RQS#** 70045

board Standard 101-key keyboard. **Price:** NA **Vendor:** Godrej Trading & Services **RQS#** 70046

board-101 Key Standard 101-key light touch keyboard. FCC approved versions available. **Price:** Rs 1595 **Vendor:** TVS Electronics **RQS#** 70047

board/Turbo 102 Keys 102-key membrane keyboard. 10-million-stroke lifetime. **Price:** Rs 575 **Vendor:** Ranka Data Products **RQS#** 70048

tural Keyboard Microsoft's ergonomically designed keyboard for Win95 with wrist-rest and three specific Win 95 keys. **Price:** $138 **Vendor:** Ultimedia System Associates **RQS#** 70049

1 Keyboard ETDC approved keyboard; rated for 50 million operations per switch. **Price:** Rs 1,345 **Vendor:** HCL Peripherals Ltd **RQS#** 70050

00 AT/PS-2 compatible membrane keyboard tested for 15 million operations. **Price:** Rs 680 **Vendor:** Industrial Adapters **RQS#** 70051

pus 60 Keyboard with built-in trackball with 20-6,400 dpi resolution. **Price:** Rs 1,800 **Vendor:** Pushpam Computers & Software **RQS#** 70052

Keyboard Standard 101-key PC keyboard. **Price:** Rs 1,495 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70053

ADD-ON CARDS

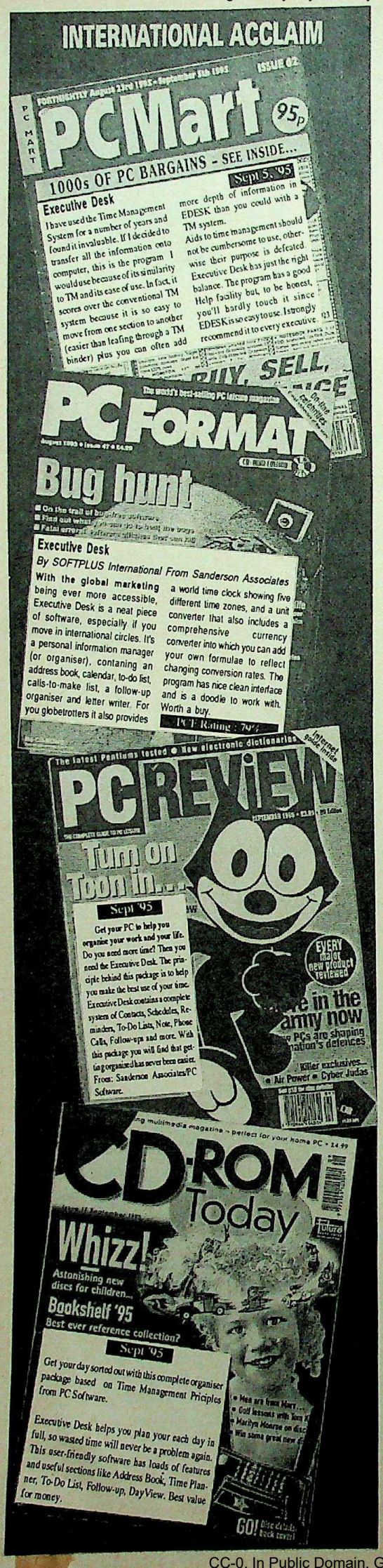
phics Graphics accelerator for software like Pro-Engineer, Mechanical desktop, Microstation 5.0 etc. **Price:** Rs 300,000 **Vendor:** KRS Electronics **RQS#** 70054

A wide range of 101-key keyboards are available, including Win 95-enhanced ones

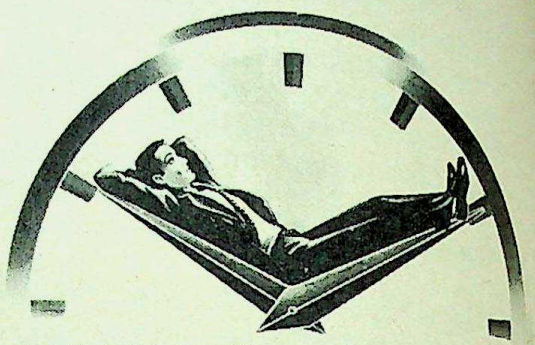
HARDWARE
ACCESSORIES : CD-ROM DEVICES

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Now Presenting Version 5.0 for WINDOWS & WIN '95



EXECUTIVE DESK for WINDOWS

Executive Desk is a complete system of Contacts, Schedules, Todo Lists, Memos, Follow-Ups, Reminders, Phone Calls and more. Version 5.0 introduces three new concepts: DayView to manage your workload using Drag-n-Drop; Archival system to file your completed schedules; Follow-up links to assign people to projects.

Thus keeping this international award winning software ahead of the rest.

Price Bargain: Ver 5.0 Windows & Win '95 Rs. 2495/-. Limited time Upgrade Rs. 900/-.

CORPORATE LICENSES

HDFC Bank · ICICI · State Bank of Patiala · National Dairy Development Board · Hindustan Petroleum · Reserve Bank of India

SELECTIVE LIST OF MULTI-COPY USERS

Raymonds, Glaxo, CEAT, Tata Steel, GEC Alsthom, Siemens, BPCL, Modi Rubber, Kelvinator, Hero Motors, V S Dempo, India Oil, Kirsolkar Bros, Toshniwal, Haryana Petrochem, Asian Paints, Thermax, LIC Housing, Brooke Bond, Tata Tea, BASF, Lupin, HMM, Ashok Leyland, English Electric, HTA, Mentor, Sandoz, Tata Finance, German Remedies, Bayer India, Nagarjuna Agro & Steel Corpn., Hyundai

National Thermal Power Corporation (NTPC), Nuclear Power Corporation (NPC), Steel Authority of India Ltd (SAIL), Mahanagar Telephone Nigam Ltd (MTNL), BHEL, Oil and Natural Gas Commission (ONGC), TIFR, Semi Conductor Complex.

Department of Irrigation, Govt of Maharashtra, Director of Weights & Measures, Department of Atomic Energy, Department of Telecommuncation, Indian Railways, Ministry of Finance, Naval Dockyard, Central Warehousing Corpn, ITO, Armament Research and Development Establishment (ARDE), Western Naval Command.

Bank of Baroda, Punjab National Bank, GIC Mutual, State Bank of India, New India Assurance, Saraswat Bank, SIDBI, Indian Bank, Dena Bank, Bank of Mauritius.

SOFTPLUS International Pvt Ltd
G-9/10, C-Wing, Balgovind Society, Opp Badal Cinema, Shivaji Park, Bombay 400 016
Phone: 422-5519, 436-3565 Fax: 436-0457 E.Mail : 100432.556@Compuserve.com

Dealers

WEST: Bombay, Pune, Ahmednagar, Satara, Goa **NORTH:** Delhi, Kanpur, Lucknow, Udaipur, Bhilwara, Dehradun, Merrut, Jammu, Mussoorie, Raipur **SOUTH:** Bangalore, Madras, Vijayawada, Tirupati, Tirupur, Cochin, Salem, Madurai, Coimbatore, Belgaum **EAST:** Bhubaneshwar, Sikkim, Imphal, Siliguri, Behrampur

Awards & Acclaim

Librarian's Choice: S/W of the Month Club
Voted among top 5 PIMs: Ziff Davis On-line
High Rating of 79% by PC Format (U.K.)
Product of the Year: India InfoTech
Global Network: English, German & French versions
Finally, 9000+ users in India & 100,000+ worldwide

INDIA'S #1 EXECUTIVE PRODUCTIVITY SOFTWARE. NOW ALSO FOR WIN '95

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Serial Cards 16550 UART; DOS/UNIX/XENIX compatible with cables and drivers. **Price:** Rs 2,450 **Vendor:** HS' Technologies **RQS#** 70055

- SCSI SCSI-II 6360 controller with two serial and one parallel ports. **Price:** Rs 7,600 **Vendor:** HS Technologies **RQS#** 70056

AHA 1542 CP\CF ISA to Fast SCSI bus master host adapter, with floppy interface. **Price:** Rs 14,950..15,500 **Vendor:** Spectra Innovations (India) Pvt Ltd **RQS#** 70057

AHA 2940 and 2940UW PCI to Fast SCSI Bus master host adapter. **Price:** Rs 16,100 (Model 2940); 21,900 (Model 2940UW) **Vendor:** Spectra Innovations (India) Pvt Ltd **RQS#** 70058

C 32-bit busmaster DMA featuring auto-SCSI utility for easy installation and configuration, and supports up to seven SCSI devices. **Price:** Rs 18,000 **Vendor:** Priya International Ltd **RQS#** 70059

Master Wide SCSI Adapters for PCI Offers data transfer rates 20 mbps (sync) and 14 mbps (async) with 16-bit SCSI peripherals. **Price:** Rs 20,100 **Vendor:** Priya International Ltd **RQS#** 70060

Converts RS232C interface to RS449 interface. **Price:** Rs 8,000 **Vendor:** Creative Micro Systems **RQS#** 70061

Converts RS2326 interface to RS485 interface. Provides optical isolation and surge protection. **Price:** Rs 4,500 **Vendor:** Creative Micro Systems **RQS#** 70062

Converts 20mA current loop interface to RS232C interface. Provides optical isolation and surge protection. **Price:** Rs 5,000 **Vendor:** Creative Micro Systems **RQS#** 70063

Converts RS232C interface to V.35 interface. Supports optical isolation and surge protection. **Price:** Rs 9,950 **Vendor:** Creative Micro Systems **RQS#** 70064

Cards Help in the developement of virtual instruments to control a wide range of signals for TQM and industrial automation. **Price:** Rs 40,000 **Vendor:** AIMIL Sales & Agencies Pvt Ltd **RQS#** 70065

-ATK Easy connection intelligent ISA host card. All serial ports are fully surge protected. **Price:** Rs 23,152 **Vendor:** VXL Instruments **RQS#** 70066

-EIK Intelligent host card for EISA systems. **Price:** Rs 23,152 **Vendor:** VXL Instruments **RQS#** 70067

-ATK Fully surge-protected 145 kbps serial ports. **Price:** Rs 7,875 **Vendor:** VXL Instruments **RQS#** 70068

-CK Eight-port I/O card for Intel-based UNIX systems and RISC SmartCards with DB25 sockets. **Price:** Rs 14,400 **Vendor:** VXL Instruments **RQS#** 70069

-AI Eight-port RISC smart card with RJ11 sockets. Full modem and flow control supports. **Price:** Rs 10,665 **Vendor:** VXL Instruments **RQS#** 70070

-RJK Eight-port smart card with RJ45 Sockets. **Price:** Rs 14,400 **Vendor:** VXL Instruments **RQS#** 70071

-Card National Instruments' GPIB products. **Price:** Rs 50,000 **Vendor:** AIMIL Sales & Agencies Pvt Ltd **RQS#** 70072

-card Multilingual PC card for English, Devnagari and all Indian languages for word processing and DTP. **Price:** Rs 5,500..6,000 **Vendor:** Data Systems Services Pvt Ltd **RQS#** 70073

card Lite 6.0 Protects systems from viruses at entry level. **Price:** NA **Vendor:** Knoxware **RQS#** 70074

card Regular 6.0 Protects systems from viruses, with enhanced security. **Price:** NA **Vendor:** Knoxware **RQS#** 70075

Serial I/O Card - PA-EC-8D2K (Form not found) **Price:** Rs 19,598 **Vendor:** VXL Instruments Ltd **RQS#** 70076

-16R2K 16-port RS232 async module. Fault tolerant. Supports UNIX, UNIXware, etc. **Price:** Rs 30,285 **Vendor:** VXL Instruments **RQS#** 70077

-8R2K Eight-port RS232 async module for Intel and RISC processors. **Price:** Rs 19,592 **Vendor:** VXL Instruments **RQS#** 70078

RS422 Provides dual RS486/RS422 interface for PCs. **Price:** Rs 5,000 **Vendor:** Creative Micro Systems **RQS#** 70079

I/O Cards Four-port serial card for DOS/UNIX/XENIX. **Price:** Rs 2,450 **Vendor:** HS' Technologies **RQS#** 70080

Modules 72-pin, 4 MB SIMM Modules. **Price:** Rs 4,000 **Vendor:** HS' Technologies **RQS#** 70081

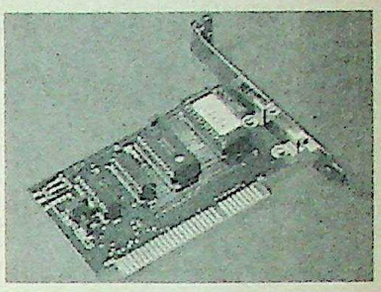
SE DRAM-based graphics accelerator with high-performance Windows drivers. **Price:** Rs 8,035 **Vendor:** Priya International Ltd **RQS#** 70082

I/O Card Multi-I/O card for PCs. **Price:** Rs 475 **Vendor:** Alpine Computers **RQS#** 70083

-8 Special-purpose PC security device for use in banks. **Price:** Rs 3,640 **Vendor:** Numag Data Systems **RQS#** 70084

-Net Special-purpose security device for networks. **Price:** Rs 3,640 **Vendor:** Numag Data Systems **RQS#** 70085

-S Boards for software protection. Each board has a unique encrypter. **Price:** Rs 1,092 **Vendor:** Numag Data Systems **RQS#** 70086

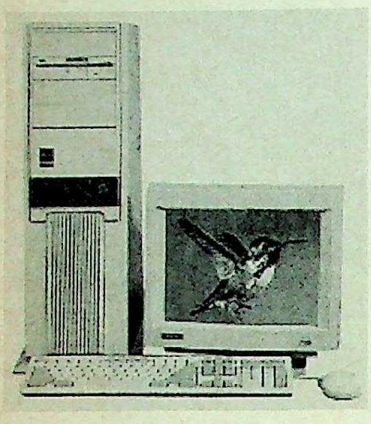


Anti-virus cards protect PCs from viruses ahead of bootup, and add other security features

HARDWARE
ADD-ON-CARDS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



With the Pentium pervading the desktop, systems now range from cheap diskless nodes to high-end servers

HARDWARE

COMPUTERS

Syslock-T PC add-on board with an external lock and key. **Price:** Rs 3,120 **Vendor:** Numag Data Systems **RQS#** 70087

Trident 9440 PCI VGA Trident's PCI-based display card for VGA displays. **Price:** Rs 3,500 **Vendor:** Alpine Computers **RQS#** 70088

Trident VGA Card 89xx series ISA-based Trident VGA cards. **Price:** Rs 900 **Vendor:** Alpine Computers **RQS#** 70089

VGA/IDE I/O Cards/PCI-VGA VGA card with 1,024 x 768 resolution. IDE I/O card supports five cabled drives and one parallel port. **Price:** Rs 1,080 **Vendor:** Kunhar Peripherals Pvt Ltd **RQS#** 70090

VL IDE Card IDE card for VESA local bus systems. **Price:** Rs 1,600 **Vendor:** Alpine Computers **RQS#** 70091

VL VGA Card VGA cards with 1 MB VRAM. **Price:** Rs 3,500 **Vendor:** Alpine Computers **RQS#** 70092

VMAXX-10 Helps in manipulating 32-bit pixels in real-time. **Price:** Rs 290,000 **Vendor:** Benchmark Micro Pvt Ltd **RQS#** 70093

WB001 Electronic Weigh Bride Interface PC add-on board that allows interfacing loadcell output to PC. **Price:** Rs 8,320 **Vendor:** Numag Data Systems **RQS#** 70094

Wijet 1200 Plus A kit that upgrades Hewlett-Packard's LaserJet 4 Plus to a 1,200 dpi PostScript. **Price:** [illegible] **Vendor:** Sonata Software Ltd **RQS#** 70095

dSPACE 9MS 320C31 Controller Board Compact single board solution based on TMS 320C31 DSP, versatile I/O features. **Price:** Rs 300,000 **Vendor:** Cranes Software International **RQS#** 70096

dSPACE Multiprocessor Board D21201 PC add-on board with four TMS 320C40 parallel DSP, performance of 200 Mflops. **Price:** Rs 400,000 **Vendor:** Cranes Software International **RQS#** [illegible]

COMPUTERS

386 and 486 Systems 486DX4/100, 4 MB RAM, 1.2 MB/1.44 MB FDD, 630 MB HDD, 14" mono VGA, feather touch keyboard. **Price:** Rs 30,000..39,500 **Vendor:** Integrated Data Systems **RQS#** [illegible]

486 ELS Entry-level 486/80 MHz PCs. Ideal for LAN nodes and workstations. **Price:** Rs 45,000 **Vendor:** Computers **RQS#** 70099

4AT6-DX2 486DX2/80, 4 MB RAM, 256 kB cache, 850 MB HDD, two serial and one parallel port. **Price:** [illegible] **Vendor:** Nexus Computers Pvt Ltd **RQS#** 70100

4AT6-X5 AMD 5x8-P75/133, 4 MB RAM, 256 kB, 850 MB HDD, one parallel and two serial ports. **Price:** [illegible] **Vendor:** Nexus Computers Pvt Ltd **RQS#** 70101

5100 PE Multiprocessor Pentium server. Can be upgraded for high-end server requirements. **Price:** Rs 110,000..500,000 **Vendor:** PCS Industries Ltd **RQS#** 70102

5100 PI Pentium systems up to 133 MHz. Suitable for workstation and server apps. **Price:** Rs 65,000 **Vendor:** PCS Industries Ltd **RQS#** 70103

5AT6 - 133 High-end network server or workstation with more than 80 MIPS rating. **Price:** Rs 100,000 **Vendor:** Nexus Computers **RQS#** 70104

5AT6 - 75 Entry level Pentium PCs with 8 MB RAM. **Price:** Rs 80,000 **Vendor:** Nexus Computers **RQS#** [illegible]

5AT6-133 PCI Come with 8 MB RAM, 512 KB Cache, IDE card, SVGA mono, 850 MB HDD, 1.44 MB FDD. **Price:** Rs 92,800 **Vendor:** Nexus Computers Pvt Ltd **RQS#** 70106

AD Multimedia Pentium-60 PC with 8 MB RAM, 4x CD-ROM, 16-bit sound, VGA color monitor and a [illegible] membership. **Price:** Rs 314,988 **Vendor:** Ultimedia System Associates **RQS#** 70107

ADVANTAGE+ P/75 - MODEL 3 Cyrix 5x86/10O, Pentium overdrive, 4 MB RAM, diskless, three expansion slots, 4 bays, local bus video. **Price:** Rs 50,524 **Vendor:** AST Computer **RQS#** 70108

ADVANTAGE+ P/75 - MODEL 850W Cyrix 5X86/100MHz, Pentium overdrive, 8MB RAM, 850 MB HDD, three expansion slots, 4 bays, local bus video. **Price:** Rs 79,695 **Vendor:** AST Computer **RQS#** [illegible]

AMIGA 1200 Multimedia home computer. **Price:** Rs 41,000 **Vendor:** Silicon Holdings & Finance Pvt. Ltd. **RQS#** 70110

ASCENTIA J10-MODEL CSS10 800 MB 8 MB Multimedia PC with Pentium-75, 8 MB RAM, 800 MB HDD, 10.4" SVGA dual-scan monitor etc. **Price:** Rs 188,393 **Vendor:** AST Computer **RQS#** [illegible]

ASCENTIA J30-MODEL CSS10 800 MB 8 MB Multimedia PC with Pentium-100MHz, 8 MB RAM, removable HDD, 10.4" SVGA color monitor etc. **Price:** Rs 213,445 **Vendor:** AST Computer **RQS#** [illegible]

ASCENTIA J30-MODEL CTS10 800 MB 8 MB Multimedia PC with Pentium-100, 8 MB RAM, 800 MB HDD, 10.4" SVGA TFT color monitor etc. **Price:** Rs 235,555 **Vendor:** AST Computer **RQS#** [illegible]

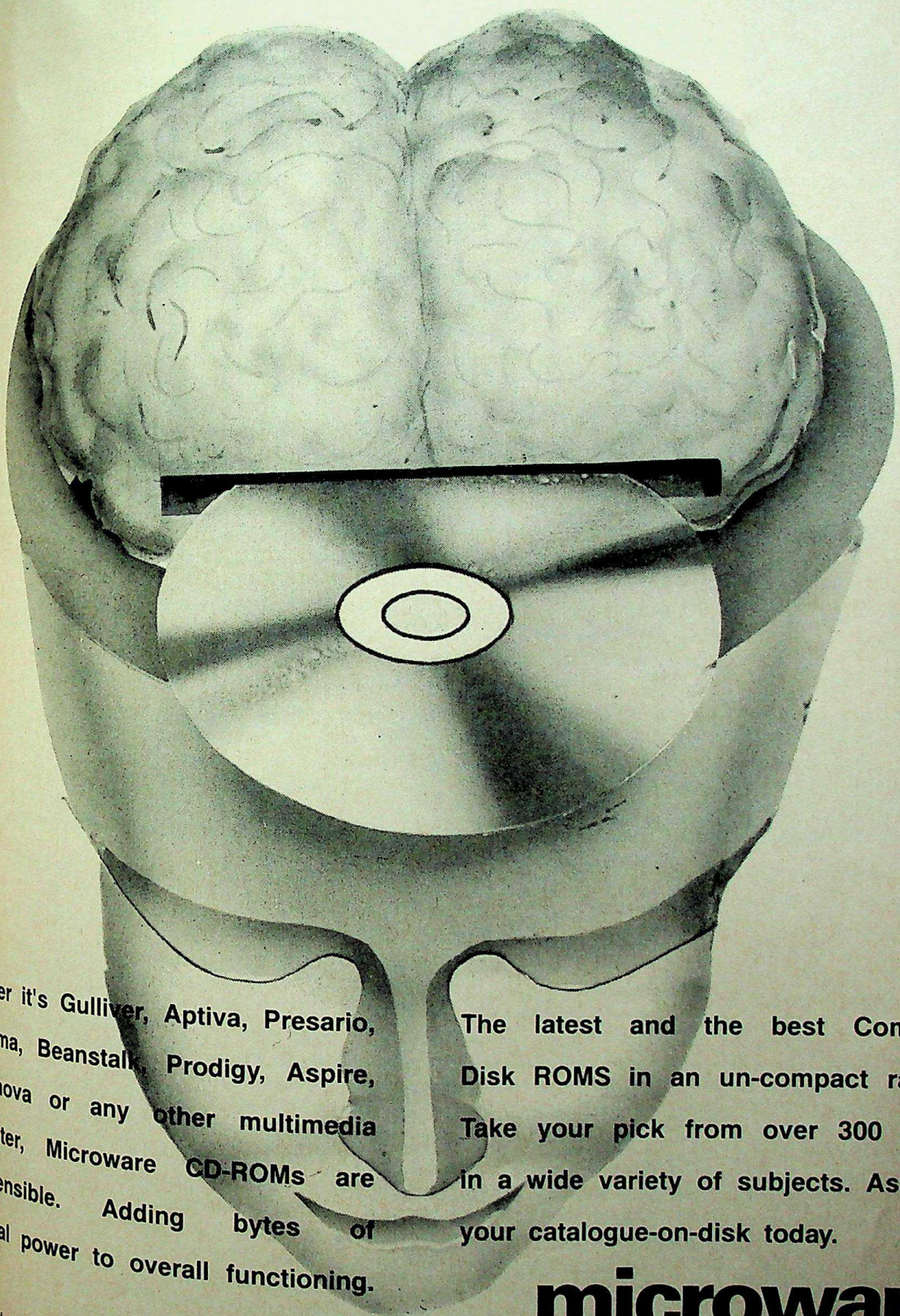
AST Advantage P/75 Model Entry-level Home PC with Cyrix-MISC-100 CPU, 8 MB RAM, 850 MB HDD. Upgradable to Pentium OverDrive. **Price:** Rs 79,695 **Vendor:** PCS Industries Ltd **RQS#** [illegible]

AST Ascentia 950N Model : P/75 Pentum-75, 256 kB L2 cache, 10.4" TFT screen, 800 MB HDD, 215,883 **Vendor:** PCS Industries Ltd **RQS#** 70115

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Lilliputians that every giant needs



Whether it's Gulliver, Aptiva, Presario, Performa, Beanstalk, Prodigy, Aspire, Supernova or any other multimedia computer, Microware CD-ROMs are indispensible. Adding bytes of cerebral power to overall functioning.

The latest and the best Compact Disk ROMS in an un-compact range. Take your pick from over 300 titles in a wide variety of subjects. Ask for your catalogue-on-disk today.

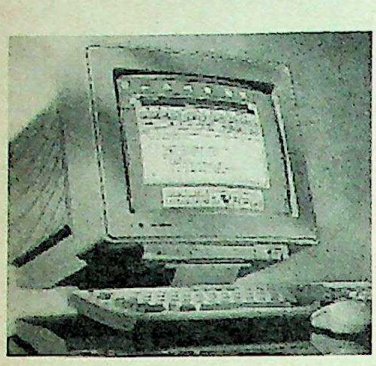
microware CD-ROM

All registered trademarks acknowledged.

CAMPAIGN

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Many Pentium desktops now ship with audio cards and Cd-ROM drives

HARDWARE

COMPUTERS

AST Ascentia J30 P/100 Multimedia PC with Pentium-75, 256 kB cache, 10.4" SVGA monitor, Win95 **Price:** Rs 235,555 **Vendor:** PCS Industries Ltd **RQS#** 70116

AST Bravo NSP/133 Model : 1600W Multimedia PC with Pentium-133, 256 kB cache, 64-bit PCI and ISA/PCI bus. **Price:** Rs 1,51,572 **Vendor:** PCS Industries Ltd **RQS#** 70117

AST MANHATTAN P1533 - MODEL 3SE Pentium-133, 32MB RAM, eight (PCI and EISA) slots, ROM drive, etc. **Price:** Rs 414,450 **Vendor:** AST Computer **RQS#** 70118

AST MANHATTAN V5100 - MODEL 2003 Pentium-100MHz, 32MB RAM, 2GB Fast-SCSI II disk and EISA) slots, nine bays, CD-ROM drive etc. **Price:** Rs 305,919 **Vendor:** AST Computer

AST Manhattan V5100 Model 2008 Pentium-100, 256 kB L2 cache, built-in single channel controller, 2GB HDD, 32 MB RAM etc. **Price:** Rs 3,05,919 **Vendor:** PCS Industries Ltd

AST Premmia 6X P/133 Model 1600W Pentium-133, 512 kB L2 cache, 16-bit Ethernet card, MB RAM and advance workstation solutions. **Price:** Rs 233,285 **Vendor:** PCS Industries 70121

Amiga-A-4000T Computer for graphics animation, video and sound. Used for non-linear editing applications. **Price:** NA **Vendor:** Silicon Holdings & Finance Pvt Ltd **RQS#** 70122

Apex 486/Pentium Desktop models. **Price:** NA **Vendor:** Apex Computers **RQS#** 70123

Apple Macintosh Computers Apple Machintosh range of computers--from LC475 to PowerMac Rs 50,000..600,000 **Vendor:** International Graphics Ltd **RQS#** 70124

Apple Macintoshes/Powerbooks Power PC processor-based Apple Mac computers. **Price:** **Vendor:** Rahul Commerce Pvt Ltd **RQS#** 70125

BRAVO MS //133 - MODEL 1600W Multimedia PC with Pentium-133, 16 MB RAM, 1.6 GB EIDE, ISA) slots, five bays, Win95 etc. **Price:** Rs 151,500 **Vendor:** AST Computer **RQS#** 70126

BRAVO MS P/100 - MODEL 1200W Multimedia PC with Pentium-100, 16 MB RAM, 1.2 GB EIDE, and ISA) slots, five bays, Win95 etc. **Price:** Rs 136,356 **Vendor:** AST Computer **RQS#**

Brilliant 486DX4/100, 8 MB RAM, 128 kB cache, 101-key keyboard, 14" mono display, Rs 94,800 **Vendor:** Ultimedia System Associates **RQS#** 70128

Brooks Computers Pentium Computers from 60-133 MHz with different hardware configurations. **Vendor:** MD Tolia Computers Pvt Ltd **RQS#** 70129

CDNet Integrated System 428/Q Network-ready CD-ROM servers. Provide access up to information per server. **Price:** Rs 1,600,000 **Vendor:** Informatics (India) Pvt Ltd **RQS#**

Celebris GL 5100 ST/5120 ST/5133 ST Pentium-100, 16 MB EDORAM, 1.44 MB FDD, SVGA with 2 MB WRAM etc. **Price:** Rs 185,000 **Vendor:** Digital Equipment India Ltd **RQS#**

Celebris XL 5100/5133/6150 (Pentium Pro) Pentium-100, 256 kB cache, 16 MB RAM, Upgradable to Pentium Pro and Alpha. **Price:** Rs 217,000 **Vendor:** Digital Equipment India 70132

Cerebra Pentium-75, 8 MB RAM, 1.44 MB FDD, 630 MB HDD, SVGA mono monitor, mouse, Rs 60,730 **Vendor:** Cerebra Integrated Technologies Ltd **RQS#** 70133

Compaq ProSignia 300 True server performance for business requirements of small networks. 300,000 **Vendor:** 2001 Electronics **RQS#** 70134

Computer Assembly Kit 386DX Assembly kit with SMPS and key-board. **Price:** Rs 13,229 **Vendor:** Kanugovi Computer Centre **RQS#** 70135

Computer Systems 486-Pentium Computer desktop systems from Tandon. **Price:** **Vendor:** Significant Software Solutions **RQS#** 70136

Data General AViiON 2000 Premium UNIX/WinNT server featuring fault-tolerant symmetric on DG/UX operating system. **Price:** Rs 1,200,000 **Vendor:** PCS Industries Ltd **RQS#**

Dataquest Multimedia PC with Pentium-75, 16 MB RAM, 2x CD-ROM drive, 840 MB HDD, monitor and virus protection software **Price:** Rs 198,870 **Vendor:** Ultimedia System 70138

Falcon Multimedia PC with Pentium-100, 32 MB RAM, double-speed CD-ROM drive, 1 GB HDD, monitor and cordless mouse **Price:** Rs 640,000 **Vendor:** Ultimedia System Associates **RQS#**

HCT 900 Terminal GIST multilingual terminal. **Price:** Rs 13,250 **Vendor:** HCL Peripherals Ltd **RQS#**

Hi-Tech 486/100 486DX4/100 MHz, 8 MB RAM, 630 MB HDD, 1.44, 1.2 MB FDD, VGA mono mouse, Win3.11 pre-loaded. **Price:** Rs 69,500 **Vendor:** Hi-Tech Info Systems **RQS#**

IBM PC 100 Pentium-75, 8 MB RAM, 256 kB cache, 635 MB IDE HDD, one parallel and two etc. **Price:** NA **Vendor:** Tata Information Systems **RQS#** 70142

IBM PC 300 Pentium-133, 16 MB RAM, 256 kB cache, 1.2 GB IDE HDD, one parallel and two 3.1 and OS/2. **Price:** NA **Vendor:** Tata Information Systems **RQS#** 70143

Industrial PCs PCs for industrial environments with high levels of temperature, dust, shock **Price:** Rs 150,000 upward **Vendor:** Comptek Computer Systems **RQS#** 70144

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

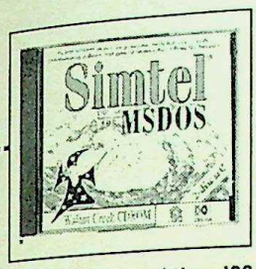
Digitized by Arya Samaj Foundation Chennai and eGangotri

microware CD-ROM

CICA (2 CD Set) Mar'96

The ultimate collection of Shareware for Windows! 3,062 Programs (1,223 Mb) for Microsoft Windows. Utilities, Games, Icons, Programming Tools.

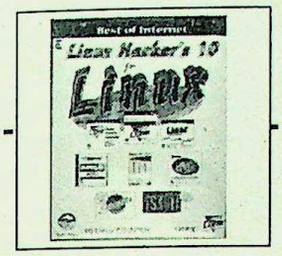
Rs. 1,125/-



Simtel (2 CD Set) June'96

Over 6,500 latest MSDOS Shareware programs direct from Internet

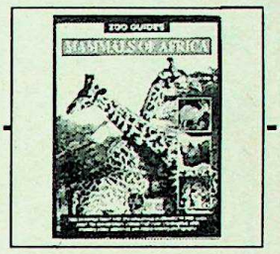
Rs. 1,650/-



Linux Hacker's 10 (10 CDs)

Get the best of Linux in low priced pack. Includes 10 titles : Sunsite, TSX-11, GNU, Red Hat, Mpeg, Monthly Archive & more

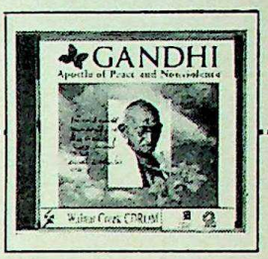
Rs. 4,000/-



Mammals of Africa

Popular Zoo Guides Series! Take an African Safari with this educational multimedia CD-ROM. Zoo Guides includes 8 volumes on different group of animals

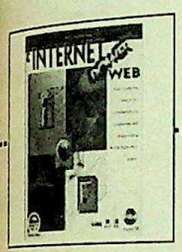
Rs. 1,950/-



Gandhi

Apostle of Peace and Non Violence. Depicts the life of and message of Mahatma Gandhi. Video, Voice, Photographs, Letters and more!

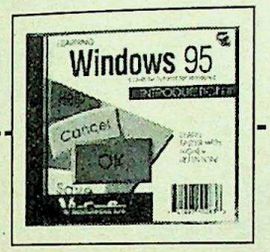
Rs. 1,950/-



Internet Power Web

Complete source for information on composing and maintaining World Wide Web pages. Includes printed documentation, tools and examples for HTML

Rs. 1,950/-



Windows 95 Intro

Interactive CD-ROM training! Over 4 hours of detailed instruction, full motion video and sound guide! Training titles also available for other software.

Rs. 1,500/-

Clipart Craze (2 CD Set)

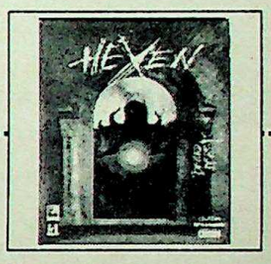
Over 3,400 royalty-free color and black and white images in over 20 categories. Includes thumbnail viewer for easy reference. For Dos, Win and Mac.

Rs. 1,700/-

Dr. Music Lab II

Sequel to the best selling title, Dr. Music Lab II gives you the best utilities for your sound card and Hundreds of music/sound clips from internet.

Rs. 750/-



Hexen

Beyond Evil. Beyond Hope. Beyond Heretic. Beyond Any 3D Game Ever Created. Breath taking 3-D Graphics

Rs. 2,600/-

Ask for our CD-ROM catalogue on disk. Our Catalogue-on-Disk software gives you complete information (over 300 pages) including features, system requirements of all the CD-ROM titles that we stock. You also get 10 True Type Fonts & 100 B&W Cliparts Free! The Catalogue is available on 1.44 Mb Floppy Disk and is priced at Rs. 100/- The Catalogue amount is adjustable against your first order of any CD-ROM Title (except Walnut Creek and Pht Sampler). The Catalogue requires 640 Kb RAM and 2 Mb of Hard Disk Space. OUR CD-ROM CATALOGUE IS ALSO AVAILABLE ON PCQUEST DECEMBER'95 CD-ROM.

Over 300 titles for Dos, Win/Win95, OS/2, Unix & Mac on General / Shareware, Operating Systems, Programming Tools, Utilities, Edutainment, Internet, BBS, Astrology, Health, Fitness, CAD, DTP, Cliparts, Fonts, Animation, Graphics, Video, MPEG II Movies, Video CDs, Photo CDs, Image Libraries, Games, Music, Sound & many more

Microware Computer Services

A, Paras, Near Dr. Baliga Nursing Home, S. V. Road, Goregaon (West), Mumbai 400 062 Tel : 872 74 46, 872 97 25 Fax : 00-91-22-872 74 46
email: microware@pobox.com

Microware CD-ROM collection is also available at :
Mumbai : **B. Desai Road : Crossword** - Tel : 4922458, 4924882, 4938311 Fax: 4938406 **Fort: Akbarallys** - Tel : 2047155, 2043921 **Gamdevi : Rainbow** - Tel : 387 02 60, 388 14 43 Fax: 386 09 91 **Lamington Road: Cassette World** - Tel: 3872034 Fax: 3895353 **Worli: Computer Point** - Tel : 4934380, 4922907, 4934111 Fax: 4935904 **Khar: Danai** - Tel: 6487123 **Santacruz : Akbarallys** - Tel 6494325, 6490196 **Andheri : Ambika Associates** - Tel: 8380032, Fax: 8390898 **Goregaon : Marusoft** - Tel : 873 86 35, Fax : 873 86 35 **DELHI : NDSE - II: Crossword** - Tel : 6217645, 6217646 **Karol Bagh : Time Software** - Tel: 574 8157, Fax : 578 17 44 **SURAT : Astrolab** - Tel: 424652, Fax: 123456 **AHMEDABAD : Crossword** - Tel : 402238, 468176 Fax: 468176 **PUNE : Popular Book House** - Tel : 371737, Fax : 375600 **HYDERABAD : Comprint** - Tel : 203268, 202120

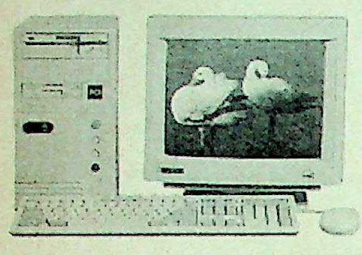
Microware CD-ROM collection can also be ordered online from the following BBSs. You can also download a free copy of our catalogue-on-disk:
MUMBAI: WOW! BBS - Tel: 4961609, 4963288 **GAMESNET! BBS** - Tel: 6318606 **DELHI : INTERCONNECT BBS** - Tel: 8530643

DEALERSHIP ENQUIRIES SOLICITED

We accept **Master and Visa Credit Cards.** For Outstation Orders, 100% advance has to be remitted by Demand Draft in favour of Microware Computer Services payable at Bombay. Outstation orders will be shipped by courier. Please add Rs. 100/- for packaging and courier charges. When ordering our Catalogue, please add Rs. 50 for shipping and packaging charges. Microware is the authorised distributor of Walnut Creek CDROM (USA), Pacific Hi-Tech (USA), Tech Express Inc. (USA), PS Multimedia (USA), Viagrafix (USA), Accurate Research Inc. (USA), IMSI (USA) and Remedia (USA). We are not responsible for any typographical errors. Prices subject to change without notice.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



486 systems are still in use, and you can often get very good bargains on them

HARDWARE

COMPUTERS

Industrial Workstations Pentium-60, 1 GB HDD, 14" VGA color monitor, 16 MB RAM **Price:** [illegible] **Vendor:** Pacific Micro Systems **RQS#** 70145

Jurgen Multimedia PC with 486DX2/66, 8 MB RAM, 128 kB cache, 14" color VGA display 540 MB HDD, Rs 129,900 **Vendor:** Ultimedia System Associates **RQS#** 70146

LAN Station LC 6100 Diskless nodes for NetWare or 486DX2/66 client/server environment. **Price:** [illegible] **Vendor:** VXL Instruments **RQS#** 70147

LAN Station LM 2430 Diskless node for NetWare or 486DX2/66 client/server environment. **Price:** [illegible] **Vendor:** VXL Instruments **RQS#** 70148

MULTICOM-486 486DX/66 with 4 MB RAM, 1.44 MB FDD, mono VGA monitor, VESA local bus, 28[illegible] voice mail and fax modem card. **Price:** Rs 44,500 **Vendor:** Minicomp Ltd **RQS#** 70149

Mastermind Excel Pentium PCs. Include multimedia and communication features. **Price:** Rs 89,500 [illegible] Accel Computers **RQS#** 70150

Mastermind Junior Pentium PCs. Include multimedia and communication software. **Price:** Rs 79,500 [illegible] Accel Computers **RQS#** 70151

Mastermind PRO Pentium PCs. Include multimedia and communication software. **Price:** Rs 99,500 [illegible] Accel Computers **RQS#** 70152

Micro Computer Computers for kids with 80C85 processor, 64 kB RAM, 8 line, 40 character LCD, 87 [illegible] 232C and LPT ports. **Price:** Rs 15,000 **Vendor:** Om Computer Center **RQS#** 70153

Micro Range PC'S Range includes 486DX2,DX4, Pentium 90,100,133 etc. **Price:** Rs 40,000 [illegible] Computek India **RQS#** 70154

MicroWorld Pentium-60, 8 MB RAM, 540 MB HDD, 1.44 MB FDD, PCI/ISA Bus, Flash BIOS, SVGA monitor. **Price:** Rs 39,540 **Vendor:** Microworld Enterprises **RQS#** 70155

Microhard Imported cabinet, SMPS and cards. TVSE keyboards. **Price:** NA **Vendor:** Microhard [illegible] India **RQS#** 70156

Micronics 486/66 MHz Computer System 486DX2/66, 4 MB RAM, 256 KB Cache, VGA mono monitor, [illegible] MB HDD, two Serial/Parallel Ports, 101-keys keyboard etc. **Price:** Rs 45,500 **Vendor:** [illegible] Micronic Devices **RQS#** 70157

Micronics Pentium 100 MHz Pentium-100 MHz, 256 kB Cache, 8 MB RAM, 1.44 FDD, VGA monitor, [illegible] monitor, 101-keys keyboard, 630 MB HDD etc. **Price:** Rs 77,500 **Vendor:** Advanced Micronic [illegible] **RQS#** 70158

Micronics Pentium 25 MHz Pentium/25MHz, 256 kB cache, 8 MB RAM, VGA monomonitor, [illegible] keyboard, 630 MB HDD etc. **Price:** Rs 66,500 **Vendor:** Advanced Micronic Devices **RQS#** [illegible]

Micronics Pentium 60 MHz Pentium/25MHz, 256 kB cache, 8 MB RAM, VGA monomonitor, [illegible] keyboard, 630 MB HDD, 200W SMPS etc. **Price:** Rs 54,950 **Vendor:** Advanced Micronic Devices [illegible] 70160

Microstuf 486DX2 486DX2/66, 4 MB RAM, 1.2 MB FDD, 630 MB HDD, SVGA mono monitor, [illegible] keyboard. **Price:** Rs 34,000 **Vendor:** Microstuf Computers Ltd. **RQS#** 70161

Microstuf P-100 Pentium-100, 8 MB RAM, 1.44 MB FDD, 630 MB HDD, 14" SVGA color monitor, [illegible] keyboard etc **Price:** Rs 73,000 **Vendor:** Microstuf Computers Ltd. **RQS#** 70162

Microstuf P-60 Pentium-60, 8 MB RAM, 1.44 MB FDD, 630 MB HDD, SVGA mono/color monitor, [illegible] keyboard. **Price:** Rs 43,000...51,000 **Vendor:** Microstuf Computers Ltd. **RQS#** 70163

Microstuf P-75 Pentium-75, 8 MB RAM, 1.44 MB FDD, 630 MB HDD, SVGA mono/color, 101-keys [illegible] **Price:** Rs 50,000...58,000 **Vendor:** Microstuf Computers Ltd **RQS#** 70164

NT Dream Machine (ALPHA) Useful for 3-D graphics and other video and multi-media applications [illegible] of 266/300 MHz. **Price:** Rs 820,000 **Vendor:** Silicon Holdings & Finance Pvt Ltd **RQS#** 70165

Omni 395 (VeriFone) Desktop PC with fully programmable terminal with built-in card reader and [illegible] transaction automation. **Price:** NA **Vendor:** HOPE **RQS#** 70166

Online Video-conferencing computer with Pentium-100, with accelerated graphics cards, 20" SVGA [illegible] monitor, 32 MB RAM **Price:** Rs 1,000,000 **Vendor:** Ultimedia System Associates **RQS#** 70167

PC/AT 486DX2 486DX2/66, 4 MB RAM, 630 MB HDD, 14" mono SVGA monitor, VESA/ISA bus [illegible] 37,000 **Vendor:** ET&T **RQS#** 70168

PCS 466 CAT Range of 486 PCI and VL bus systems, available with a wide range of CPU and add-on [illegible] **Price:** Rs 36,000 to 60,000 **Vendor:** PCS Industries Ltd **RQS#** 70169

PCS 5100 PI Pentium systems upto 133 MHz. Suitable for workstation/server apps. **Price:** Rs 65,000 [illegible] **Vendor:** PCS Industries Ltd **RQS#** 70170

PCS 575 PI Pentium-75 high-end desktop for power users, configured with high performance peripherals [illegible] accelerators. **Price:** Rs 50,000...80,000 **Vendor:** PCS Industries Ltd **RQS#** 70171

PREMMIA GX P/133 - MODEL 1600W Pentium-133, 16 MB RAM, 1.6 GB EIDE, PCI 64-bit Matrox [illegible] card (video), seven slots, five bays etc. **Price:** Rs 233,285 **Vendor:** AST Computer **RQS#** [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Pentium Delight Pentium-120, 256 kB cache, 16 MB RAM, 1.2GB HDD, SVGA color monitor, two serial and one parallel port etc. **Price:** Rs 95,000 **Vendor:** Alpha Computers **RQS#** 70173

Pentium Multimedia Pentium-75, 256 kB cache, 8 MB RAM, 1.2 GB HDD, SVGA color monitor, one serial and one parallel port etc. **Price:** Rs 75,000 **Vendor:** Alpha Computers **RQS#** 70174

Pentium Systems Pentium range of PCs with 8 MB RAM, 630 MB HDDs, 200W SMPS, 14" VGA mono monitor, 101-keys keyboard etc **Price:** Rs 59,500 **Vendor:** Integrated Data Systems **RQS#** 70175

ESSUITE Fully Integrated WinNT workstations with broadcast quality non-linear editing for video professionals. **Price:** Rs 1,650,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 70176

Synergy-150 Servers Pentium-120, 64 MB RAM, 2 GB HDD, SVGA color monitor, single foil keyboard, Win95. **Price:** Rs 255,825 **Vendor:** Siemens Nixdort Information Systems Pvt Ltd **RQS#** 70177

Alaris LX 575/590/5120 Pentium-75, 16 MB RAM, 256 kB cache, 1.44 MB FDD, integrated enhanced IDE controller, LAN management software etc. **Price:** Rs 160,000 **Vendor:** Digital Equipment India Ltd **RQS#** 70178

Alaris XL Server Series of server PCs. **Price:** Rs 360,000 **Vendor:** Sunrise Computers & Networks **RQS#** 70179

Compaq Presario 5100e M1060 Pentium-100 PC with Netscape browser. **Price:** Rs 135,000 **Vendor:** Zon Marketing **RQS#** 70180

Compaq Presario 575e Entry level desktop PCs. **Price:** Rs 99,950 **Vendor:** Compaq Computer Asia **RQS#** 70181

Scenic - 4H/PCI 486DX2/66, 32 MB RAM, 850 MB HDD, SVGA color monitor, single foil keyboard, Win95. **Price:** Rs 99,000 **Vendor:** Siemens-Nixdorf Information Systems **RQS#** 70182

Scenic - 5H/PCI Pentium-90, 8 MB RAM, 540 MB HDD, SVGA color monitor, 101 keyboard, Win95. **Price:** Rs 135,900 **Vendor:** Siemens-Nixdorf Information Systems Pvt Ltd **RQS#** 70183

Scenic 4H/PCI 486DX4/100, 32 MB RAM, 850 MB HDD, SVGA color monitor, 101 keyboard, Win95. **Price:** Rs 103,500 **Vendor:** Siemens-Nixdorf Information Systems Pvt Ltd **RQS#** 70184

Scenic Pro C5 Pentium-166, 64 MB RAM, 1.6 GB HDD, SVGA color monitor 101 keyboard, Win95. **Price:** Rs 233,325 **Vendor:** Siemens-Nixdorf Information Systems Pvt Ltd **RQS#** 70185

Scenic Pro M5 Pentium-166, 64 MB RAM, 1.6 GB HDD, SVGA color monitor, 101 keyboard, Win95. **Price:** Rs 268,875 **Vendor:** Siemens-Nixdorf Information Systems Pvt Ltd **RQS#** 70186

Workbench Pentium-100, 4.35 GB HDD, 4x CD-ROM drive, 64 MB RAM, 256 kB cache, 21" graphics display, 3D-mouse **Price:** Rs 1,200,000 **Vendor:** Ultimedia System Associates **RQS#** 70187

Silicon Graphics Workstations High-power graphics UNIX workstations from Silicon Graphics. **Price:** Rs 1,500,000..5,000,000 **Vendor:** Rahul Commerce Pvt Ltd **RQS#** 70188

Sparrow PC-AT 486 486SX/33 CPU with built in co-processor, 4 MB RAM, two serial and one parallel port. **Price:** Rs 48,000 **Vendor:** Sparrow Electronics Pvt Ltd **RQS#** 70189

Videoterm-2000 Terminal DEC VT220 compatible terminal with 101-keys keyboard. **Price:** Rs 12,500 **Vendor:** HCL Peripherals Ltd **RQS#** 70190

Videoterm-2020 Terminal DEC VT220 compatible terminal with 105-keys keyboard. **Price:** Rs 13,250 **Vendor:** HCL Peripherals Ltd **RQS#** 70191

Wasp Portable Data Collection PT-805 data capturing unit with 16x2 LCD, 64 kB RAM, Alpha numeric keypad, barcode input options etc. **Price:** NA **Vendor:** Leaf Automation India Pvt Ltd **RQS#** 70192

Wasp Portable Laser Terminal-PT7 Has U 16 LCD display, 640 kB RAM, buzzer and feedback of keystrokes and barcode scanning. **Price:** NA **Vendor:** Leaf Automation India Pvt Ltd **RQS#** 70193

WIPRO 486 SXL 486SX/33, 4 MB RAM, 540 MB HDD, VGA mono monitor, 101-key keyboard. **Price:** Rs 37,584 **Vendor:** Vel Computer Services **RQS#** 70194

WIPRO 486DX2 486DX2/66, 4 MB, 1.44 MB, 540 MB, 14" VGA Mono, 101-keys keyboard **Price:** Rs 40,513 **Vendor:** Vel Computer Services **RQS#** 70195

WYSE 210 UNIX terminal with six emulations. VT 100 compatible. **Price:** Rs 14,500 **Vendor:** VXL Instruments **RQS#** 70196

WYSE 210G UNIX terminal with six emulations. Supports graphics. **Price:** Rs 18,000 **Vendor:** VXL Instruments **RQS#** 70197

WYSE 220 Enhanced VT 220 compatible terminal. **Price:** Rs 16,500 **Vendor:** VXL Instruments **RQS#** 70198

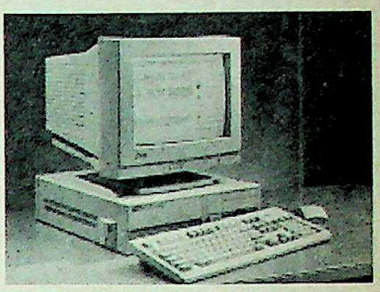
WYSE 210 Enhanced VT 220 compatible terminal. **Price:** Rs 23,500 **Vendor:** VXL Instruments **RQS#** 70199

WYSE 210G Enhanced VT 220 compatible terminal; supports graphics. **Price:** Rs 23,500 **Vendor:** VXL Instruments **RQS#** 70200

WYSE 405 Enhanced GIST Indian language terminal. **Price:** Rs 16,500 **Vendor:** VXL Instruments **RQS#** 70201

Xpentium Wide range of Pentium PCs (60..133MHz). **Price:** Rs 55,774...101,832 **Vendor:** Vel Computer Services **RQS#** 70202

Xpress Desktop PCs for SOHO users. **Price:** Rs 1,25,900 **Vendor:** Sunrise Computers & Networks **RQS#** 70203



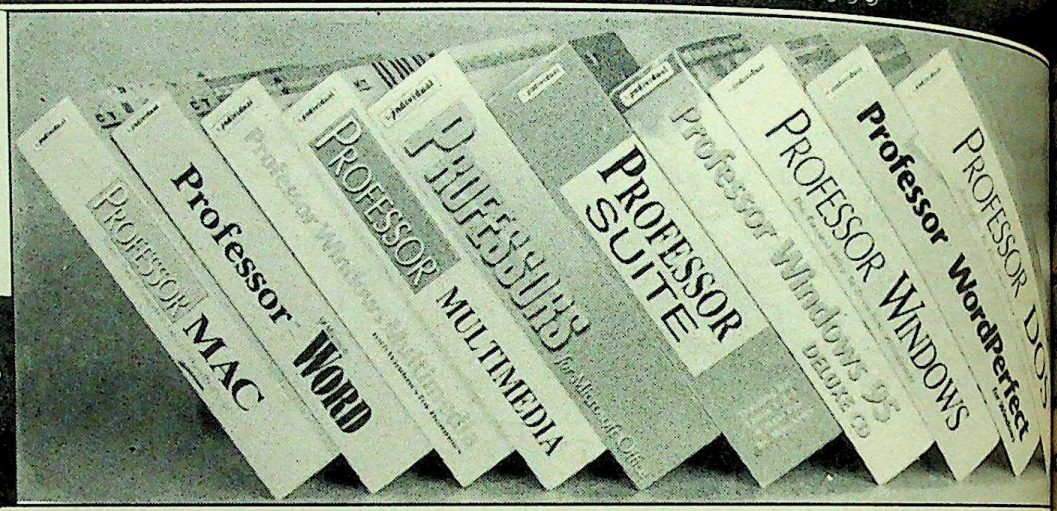
Though mini-tower cabinets have caught on, conventional systems continue to be popular, in slimmer forms

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

LEARN TO USE
WINDOWS
WINDOWS 95
MICROSOFT OFFICE
AND MUCH MORE....

AVAILABLE ON CD-ROMs And DISKETTES



DEALERSHIP/ DISTRIBUTORSHIP ENQUIRIES WELCOME

Take home your own international **PROFESSOR**™ -*Computer Based Training Software* and learn to use popular applications & operating systems efficiently

- At A NOMINAL COST
- AT YOUR OWN CONVENIENCE AND PA
- WITHOUT AFFECTING YOUR NORMAL WORK SCHEDULE
- IN THE COMFORT OF YOUR OWN HOME/OFFICE

The PROFESSOR can be used by

- **INDIVIDUALS FOR SELF LEARNING**
- **CORPORATES AND BUSINESS HOUSES FOR STAFF TRAINING**
- **EDUCATIONAL/COMPUTER INSTITUTES FOR CONDUCTING COUR**

THE ROSETTA STONE (CD-ROM)

Learn **FRENCH, GERMAN, RUSSIAN, SPANISH** or **DUTCH**
Your Own With This Award Winning Program!

AVAILABLE AT: NEW DELHI: *E.D.Galgotia & Sons*, B-17 Connaught Place; *The Music Shop*, Khan Market; *Crossword (E)*; South Ex.-II; *Teksons*, South Ex.-I Market; *The New World*, H-88 South Ex.-I; *Tangerine Computers Et Al*, M-25 G.K. 2 Market; *Ri*; M-39 G.K.-I Market; *Vikmans*, 104 Red Rose Bldg., 50 Nehru Place; *Computer Land*, Som Dutt Chamber I, Bhikaji Cama Place; *M*; *Bazar*, Vasant Vihar. **BOMBAY:** *Alpine Automation*, Ph:263 4560; *Tangerine Computers Et Al* Shop No. 7, Crossgate Bldg, Lokhi; Cmplx, Versova, Andheri (W); *Tangerine Computers Et Al* 270/10, Radha Niwas Hindustan Co-op Housing Society, Linking Road, Ba; *Tangerine Computers Et Al* 8, Matru Ashish, 454 Napean Sea Road; *Tangerine Computers Et Al* At Kamdars, Next To Croissants; Ch; **BANGALORE:** *Tangerine Computers Et Al*, Mota Royal Arcade, 158 Brigade Road. **CALCUTTA:** *R.K. Infotech*, Ph: 2392640

Distributed in India By:

INNOSERV SYSTEMS PVT LTD. X-29 Hauz Khas, New Delhi-16 Ph: 5758874, 6968626 Fax

STEP IN FOR BEST VARIETY IN CD-ROM TITLES

LEARNING ADVENTURE, X-29 Hauz Khas, New Delhi Ph: 686 3058, 696 8626
INNOSERV SYSTEMS PVT. LTD., 4A/9 Old Rajinder Nagar, New Delhi Ph: 575

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...-486DX2/66, 8 MB RAM, 1.44 MB FDD, S3 trio 32 graphics/1 MB WRAM. Enhanced IDE on local bus. ...EPA Energy Star compliant. **Price:** Rs 125,900 **Vendor:** Digital Equipment India Ltd **RQS#** 70204

...s & Venturis FP Pentium-75, 256 kB cache, 8 MB RAM, 1.44 MB FDD, plug-and-play integration. ...Optional PCMCIA drive bay. EPA Energy Star compliant. **Price:** Rs 89,000 **Vendor:** Digital Equipment India Ltd **RQS#** 70205

...ers Runner 486DX4/120, 256 kB cache, 8MB RAM, 630MB HDD, SVGA color monitor, 1MB PCI VGA card, 101 keyboard, two serial and one parallel port. **Price:** Rs 50,000 **Vendor:** Alpha Computers **RQS#** 70206

...ers Screamer 486DX4/120, 256 kB cache, 16MB RAM, 630MB HDD, SVGA color monitor, 1MB PCI VGA card, 101 keyboard, two serial and one parallel port, mouse. **Price:** Rs 60,000 **Vendor:** Alpha Computers **RQS#** 70207

Today's notebooks pack the punch of high-end desktops, sometimes even including CD-ROM drives

COMPUTERS: PORTABLES

...Series Modular SKD 486 notebook with local bus. All parts are user-removable. **Price:** Rs 99,000 (Mono); Rs 122,000 (Color) **Vendor:** Comptek International **RQS#** 70208

...400 SERIES 486DX2/66, 4 MB RAM, 1.44 MB FDD, 540 MB HDD, 14" VGA mono display, 101 keyboard **Price:** Rs 43,500 **Vendor:** Accel Automation **RQS#** 70209

...500 SERIES Pentium-60, 8 MB RAM, 540 MB HDD, 1.44 MB FDD, 14" VGA mono display, 100 keyboard **Price:** Rs 57,500 **Vendor:** Accel Automation **RQS#** 70210

...a Surfer Pack Comes with 2 MB RAM and 270 MB Hard Drive and a 14.4 modem. **Price:** Rs 49,500 **Vendor:** Silicon Holdings & Finance Pvt Ltd **RQS#** 70211

...ttle (SCSI - Quad Speed) Portable quad-speed SCSI CD-ROM drive. **Price:** Rs 30,000 **Vendor:** Nexus Computers **RQS#** 70212

...ra 420/430 Notebooks at affordable prices. **Price:** Rs 120,000 **Vendor:** Compaq Computer Asia **RQS#** 70213

...tibook 5000 Pentium-90, 8 MB RAM, 1200 MB HDD, Color SVGA, active matrix display etc. **Price:** Rs 45,000 **Vendor:** Ultimedia System Associates **RQS#** 70214

...E 4/66 486DX2/66 PC with 8 MB RAM. **Price:** Rs 90,000 **Vendor:** Ultimedia System Associates **RQS#** 70215

...e Ultra II Pentium-100, 8 MB RAM, 1.1 GB HDD, 1.44 MB FDD, built-in trackball etc. **Price:** Rs 320,000 **Vendor:** Digital Equipment India Ltd **RQS#** 70216

...e VP Pentium-75, 8 MB EDO RAM, 540 MB HDD, 1.44 MB FDD, built in touch-pad and local bus video. **Price:** Rs 170,000 **Vendor:** Digital Equipment India Ltd **RQS#** 70217

...Palmtop Compact, portable, handheld computers for collecting field data, or as a transaction automator and executive aid. **Price:** Rs 9,545 **Vendor:** HOPE **RQS#** 70218

...ThinkPad 365E (Active) Pentium-100 MHz, 8 MB RAM, 540 MB HDD, 1.44 MB FDD, 10.4" TFT color display, Win95 etc **Price:** Rs 189,000 **Vendor:** Tata Information Systems **RQS#** 70219

...ThinkPad 365E (Passive) Pentium-100 MHz, 8 MB RAM, 540 MB HDD, 1.44 MB FDD, 10.4" DSTN color display with Win95 etc." **Price:** Rs 158,000 **Vendor:** Tata Information Systems **RQS#** 70220

...ThinkPad 755 CDV Multimedia notebook with Pentium-75, 8 MB RAM, 1.2 GB HDD, quad-speed CD-ROM drive, 10.4" TFT color display with Win 3.11, OS/2 Warp etc **Price:** Rs 505,000 **Vendor:** Tata Information Systems **RQS#** 70221

...ThinkPad 755 CV Pentium-75, 8 MB RAM, 810 MB HDD, 10.4" TFT color display with Win 3.11, OS/2 Warp etc **Price:** Rs 445,000 **Vendor:** Tata Information Systems **RQS#** 70222

...ThinkPad 760 C Pentium-120, 8 MB RAM, 720 MB HDD, 1.44 MB FDD, 12.1, SVGA color display with Win 3.11 and OS/2 Warp 3 etc **Price:** Rs 395,000 **Vendor:** Tata Information Systems **RQS#** 70223

...ThinkPad 760 CD Multimedia notebook with Pentium-90 MHz, 8 MB RAM, 1.2 GB HDD, quad-speed CD-ROM drive, 12.1" TFT color display with Win3.11 and OS/2 Warp3 etc **Price:** Rs 475,000 **Vendor:** Tata Information Systems **RQS#** 70224

...ThinkPad 760 L Pentium-90MHz, 8 MB RAM, 810 MB HDD, 1.44 MB FDD, 10.4" TFT color display with Win 3.11 and OS/2 Warp 3 etc **Price:** Rs 312,000 **Vendor:** Tata Information Systems **RQS#** 70225

...ThinkPad 760 LD Pentium-90MHz, 8 MB RAM, 810 MB HDD, 4x CD-ROM Drive, 10.4" TFT color display with Win3.11 and OS/2 Warp 3 etc **Price:** Rs 353,000 **Vendor:** Tata Information Systems **RQS#** 70226

...MAGIC BOOK MB8 Multimedia notebook with 486-DX2/66, 8 MB RAM, 10.4" color screen, 540 MB removable hard disk **Price:** Rs 165,000 **Vendor:** Decision Plus Systems Inc. **RQS#** 70227

...Pentium Notebook Multimedia notebook with Pentium-100, 8MB RAM, 540 MB HDD, 2 Type II PCMCIA slots, 1 type III slot, 4x CD-ROM drive etc. **Price:** Rs 130,000 **Vendor:** Moon Computers Manufacturing Industry **RQS#** 70228

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

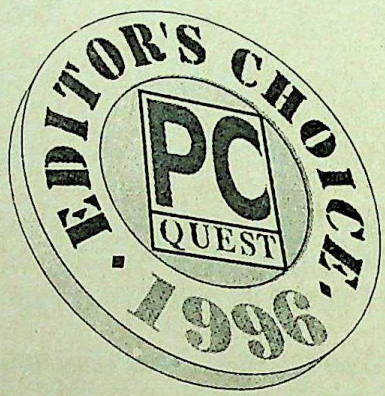
lab tests.

awards.

recognition.

fame.

just a few of the efforts we have to go through to keep our customers satisfied.



Who says hard work and goodwill don't pay? The **Accure UPS** from Datex has received the *Editor's Choice Award* by *PC Quest Magazine* (May 1996) for being the best UPS in its category.

To quote ad verbatum, the **Accure** "tops the rankings with top honours in our lab tests and back-up time."

The support of all our dealers, buyers and well-wishers has contributed so much in this milestone of success. Of course, our 28-hour work schedule does help.

We hope this makes our customers satisfied. Prospective buyers attracted.

And competition jealous.

DATEX

Datex Electronics Pvt Ltd

T-1512/1 Bhishm Pitamah Marg, Opp. Sachdeva P T College Defence Colony, New Delhi - 110003
Tel: 462 931; 460 2457. Telefax: 91 11 462 1931.

Mumbai ◆ Bangalore ◆ Calicut ◆ Cochin ◆ Coimbatore ◆ Trivandrum

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Internet ILZ Compact, portable, handheld computers for collecting field data or as a transaction automator and executive aid. **Price:** Rs 12,289 **Vendor:** HOPE **RQS#** 70229

Pentium 486DX4/100, 16 MB RAM, 1.2 GB HDD, VGA LCD color screen, trackball, single-foil keyboard, Win95. Price: Rs 224,955 **Vendor:** Siemens-Nixdorf Information Systems Pvt Ltd **RQS#** 70230

Pentium SVD Pentium-90, 32 MB RAM, 1.2 GB HDD, SVGA LCD color screen, single-foil keyboard, Win 95. **Price:** Rs 290,250 **Vendor:** Siemens-Nixdorf Information Systems Pvt Ltd **RQS#** 70231

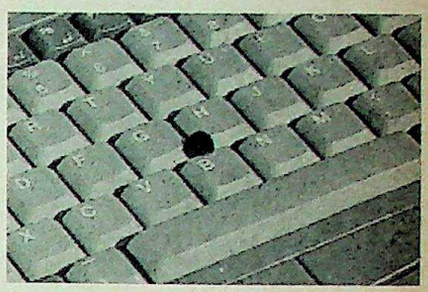
Notebook Computers Range of notebooks with multimedia models including CD-ROMs. **Price:** Rs 73,950..174,950 **Vendor:** Vel Computer Services **RQS#** 70232

Notebook - DSTN Colour Features include 2 MB VRAM, 32-bit local bus on video and built-in track point. **Price:** NA **Vendor:** Vel Computer Services **RQS#** 70233

Notebook - Mono Model Features include 2 MB VRAM, 32-bit local bus on video and built-in track point. **Price:** Rs 69,950 **Vendor:** Vel Computer Services **RQS#** 70234

Notebook TFT Colour Features include 2 MB VRAM, 32-bit local bus on video and built-in track point. **Price:** Rs 124,950 **Vendor:** Vel Computer Services **RQS#** 70235

Netbout Compact, portable, handheld computers for collecting field data or as a transaction automator and executive aid. **Price:** Rs 22,484 **Vendor:** HOPE **RQS#** 70236



Alternative pointing devices like the trackpoint have begun to replace trackballs on notebooks

DATACOM

2300 (Dial up & Leased Line Encryptors) Dial-up/leased line encryptors. Protocol independent. Compatible with X.3 PADs commonly used in X.25 value-added networks. **Price:** Rs 53,500 **Vendor:** Trans-Tel Communications **RQS#** 70237

Modem/Fax/Phone/Answering Machine Switch Routes incoming telephone, fax, modem and answering machine voice calls on a single telephone line. **Price:** Rs 17,900 **Vendor:** Trans-Tel Communications **RQS#** 70238

Multech Audio Telephony 2000 Six-in-one combo-card fax modem with 14.4 kbps answering machine, v.32bis, MNP5 error correction, etc. **Price:** Rs 12,000 **Vendor:** Digital World India Ltd **RQS#** 70239

NEVOX Telebanking IVR for banks. Serves one telephone line, readout account balance, fax account statement and accept voice messages. **Price:** Rs 150,000 **Vendor:** Bellwether Technologies Pvt Ltd **RQS#** 70240

CYGNUS DS-721AT High performance dual-link cascadable X.25 PAD. Supports two X.25, 64 kbps links to the same or to different data networks. **Price:** Rs 150,000 **Vendor:** Cygnus Microsystems Pvt Ltd **RQS#** 70241

SNA Domain Gateway Robust, high quality networking product for WANs. **Price:** Rs 169,000 **Vendor:** Sunrise Computers & Networks **RQS#** 70242

Fax Command Helps storage and broadcast of catalogs and price lists. Navigable through voice-specific fax-back PBX. **Price:** Rs 299,500 **Vendor:** Trans-Tel Communications **RQS#** 70243

Modem Server Meant for sharing fax/modem devices on an Ethernet LAN. **Price:** Rs 25,000 **Vendor:** Nexus Computers **RQS#** 70244

Inmarsat Terminals: Type M and C Satelite terminals for global voice and data communication. **Price:** NA **Vendor:** Parekh Micro Electronics (India) Ltd. **RQS#** 70246

Internet Plus Ready to use Internet kit. **Price:** Rs 15,000 **Vendor:** Gebbs India Ltd **RQS#** 70247

Interactive voice response system Accepts telephone queries and gives relevant data to the caller. Can be used for voice mail apps. **Price:** Rs 340,000..560,000 **Vendor:** Bay Talkitec Pvt Ltd **RQS#** 70248

Interface Converters Both powered and nonpowered interface converters for V.24, V.35, RS-449, RS-530, X.21. **Price:** Rs 16,600 **Vendor:** Trans-Tel Communications **RQS#** 70249

Internet Firewall - Encryptor Safenet Includes 28.8 kbps modem, firewall LAN encryptor and safenet identification for Internet services. **Price:** NA **Vendor:** Trans-Tel Communications **RQS#** 70250

Internet and Intranet Servers Setting up customized Internet and intranet local Web-based servers for corporates. **Price:** NA **Vendor:** Quantum Link Communications **RQS#** 70251

Multiple 512 kpbs ISDN Multiplayer Video conferencing and audio broadcasting for LANs and WANs. **Price:** NA **Vendor:** Trans-Tel Communications **RQS#** 70252

Message Switch Store-and-forward message switch with multiple media connectivity and a gateway to X.400 systems. **Price:** Rs 250,000 **Vendor:** Triumph Research & Holdings Pvt Ltd **RQS#** 70253

Data Vending Machine Provides off line database access with distributed database and creates an Internet for companies. **Price:** Rs 250,000 **Vendor:** Triumph Research & Holdings Pvt Ltd **RQS#** 70254

Internet Server Offers additional security and protection on Internet access and helps in creating Web sites. **Price:** Rs 250,000 **Vendor:** Triumph Research & Holdings Pvt Ltd **RQS#** 70255

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PURE, CLEAN, ORIGINAL, ORACLE®

PRESENTING AUTHORISED ORACLE TRAINING CENTRES

ORACLE
Developer/2000
FORMS 4.5 & REPORTS 2.5

The very latest version of Oracle is in town - Oracle7 with Developer/2000 covering Forms 4.5 & Reports 2.5.

So, here is your chance to get an internationally acceptable qualification that would increase your market value, worldwide.

Oracle7. With course material from Oracle.

And faculty trained by Oracle.

Brought to you by SQL Star International Limited, the Authorised Training Centre for Oracle in Delhi, Calcutta and Hyderabad.

Come and discover the pure, clean and original.

ORACLE7

At SQL, nowhere else.

Business Alliance Programme™

ORACLE® Authorised Training Centre.

SQL INTERNATIONAL

SQL STAR INTERNATIONAL LIMITED
[Formerly SQL Star People (India) Limited]

CALCUTTA
A7, 9th Floor,
Chatterjee International Centre,
33/A Chowringhee Road,
Calcutta-700 071.
Tel : +91-33-296582.

DELHI
2nd Floor, Andhra Association Building,
Next to Saibaba Temple,
24 & 25 Institutional Area,
Lodhi Road, New Delhi-110 003.
Tel : +91-11-4602904, 4601539
Fax : +91-11-4601597

HYDERABAD
4, Motilal Nehru Nagar, 1st Floor,
Above Mahalakshmi Motors,
Begumpet Main Road,
Hyderabad-500 016.
Tel : +91-40-849125, 846501
Fax : +91-40-816960

The hi-end of opportunity

Oracle is a Registered Trademark of Oracle Corporation U S A

Oracle Developer/2000 consists of Forms 4.5, Reports 2.5, SQL Plus and Graphics

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

N Connectivity Offers open physical layer connectivity on twisted pair and fiber-optic media with AT&T's SYSTIMAX structured cabling systems. **Price:** NA **Vendor:** Building Network Automation **RQS#** 70256

Driver Makes full use of the available bandwidth on private dedicated twisted pair cable. **Price:** Rs 4,500 **Vendor:** Creative Micro Systems **RQS#** 70257

Driver - LD01 Provides long-distance driving of RS232 signals by converting to RS422 interface. **Price:** Rs 1,250 **Vendor:** Numag Data Systems **RQS#** 70258

Drivers / Linx Series Helps in boosting data signals for effective remote communication. Provides complete transparency. **Price:** Rs 1,800 **Vendor:** Datamarg Systems Pvt Ltd **RQS#** 70259

gshine It offers various communication products like Ethernet and Token Ring adapters, terminal emulators, multi I/O cards, fax/modem cards, etc. **Price:** Rs 1,450 **Vendor:** PCS Industries Ltd **RQS#** 70260

gshine A comprehensive range of communication products. **Price:** Rs 1,450 **Vendor:** PCS Industries Ltd **RQS#** 70261

Plexer A multiport multiplexer with an in-built line driver. Helps in interconnecting a cluster. **Price:** NA **Vendor:** Creative Micro Systems **RQS#** 70262

Share Switch Allows CPU to be shared by two monitors and two key boards. **Price:** Rs 2,970 **Vendor:** Computer Center **RQS#** 70263

er Guard With Auto FAX Protects faxes and computers with fax/modem cards from high/low voltage fluctuations. **Price:** NA **Vendor:** Computer Center **RQS#** 70264

ocol Converter Allows handshaking between different protocols like RS232C to RS422/485 TTY etc. **Price:** Rs 3,000 **Vendor:** San Telequip Pvt Ltd **RQS#** 70265

232/V.35/RS422 Auto Fall Back Switches Automatic switch to standby port or line. Restores switch to the primary DSR/DTR/RTS/CTS. **Price:** Rs 38,500 **Vendor:** Trans-Tel Communications **RQS#** 70266

Peer Server Scalable and flexible networking product. **Price:** Rs 65,000 **Vendor:** Sunrise Computers & Networks **RQS#** 70267

ial Port Opto Isolator Optically isolates signals between two serial ports. **Price:** Rs 1,050 **Vendor:** Numag Data Systems **RQS#** 70268

e Vision PC 3000 Desktop video conferencing system that operates on regular telephone lines. **Price:** Rs 110,000 **Vendor:** Worldwide Technologies Ltd **RQS#** 70269

Link 2288 E Can configure modems for particular apps and supports data and fax modes. **Price:** Rs 18,360 **Vendor:** Team Engineers **RQS#** 70270

m Link 2144 E Can configure modems for use with particular apps and supports data and fax modes. **Price:** Rs 12,240 **Vendor:** Team Engineers **RQS#** 70271

Commander 3500XL Audio Telephony card with voice mail system, multiple CD-ROM interfaces, 28.8 kbps internal fax/voice modem, 16-bit sound card etc. **Price:** Rs 26,800 **Vendor:** Priya International Ltd **RQS#** 70272

e Man (LAN) Computerized voice mail with auto-attendent application; meant for banks, railways, hotels etc. **Price:** Rs 45,000 **Vendor:** Analog & Digital Systems **RQS#** 70273

pert-Voice Messaging System Works with a minimum of two phone lines and maximum of eight channels per PC. **Price:** Rs 45,000 **Vendor:** Quantum Power Systems **RQS#** 70274

FORCE Web authoring server on a Silicon Graphics workstation platform. **Price:** Rs 650,000 **Vendor:** Silicon Graphics, Advanced Micronic Devices **RQS#** 70275

PCMCIA 14.4C Model 500-00 For PSTN and wireless cellular communication. **Price:** NA **Vendor:** Adroit Technologies Ltd **RQS#** 70276

PCMCIA V.34C For PSTN and wireless cellular communications. Small plug-in package featuring high throughput. **Price:** NA **Vendor:** Adroit Technologies Ltd **RQS#** 70277

DATACOM: MODEMS

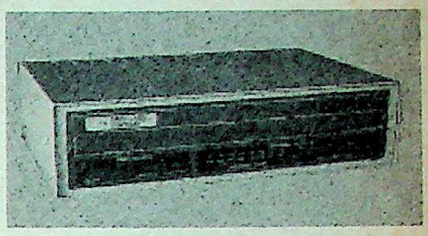
3800 Series Modems for leased and dial-up lines; ships with menu-driven software. **Price:** Rs 49,995 **Vendor:** Beta Information Technologies **RQS#** 70278

3266 V.32 bis Motorola's high-end 14.4 kbps modem, with leased line support, digital display, etc. **Price:** Rs 51,000 **Vendor:** Gebbs India Ltd **RQS#** 70279

3266 V.34 Motorola's top-of-the-line 28.8 kbps modem, with leased line support, digital display, etc. **Price:** Rs 110,000 **Vendor:** Gebbs India Ltd **RQS#** 70280

ete Communication Card TEC approved fax modem card with hardware error correction. 2,400 bps and 9,600 bps models. **Price:** Rs 4,500 **Vendor:** Direct Enterprises **RQS#** 70281

onics 28.8 Kbps 115,200 bps, CCITT V.42bis MNP 5-compliant fax modem. **Price:** Rs 17,000 **Vendor:** Direct Enterprises **RQS#** 70282



Multiport multiplexers let you connect a cluster of terminals

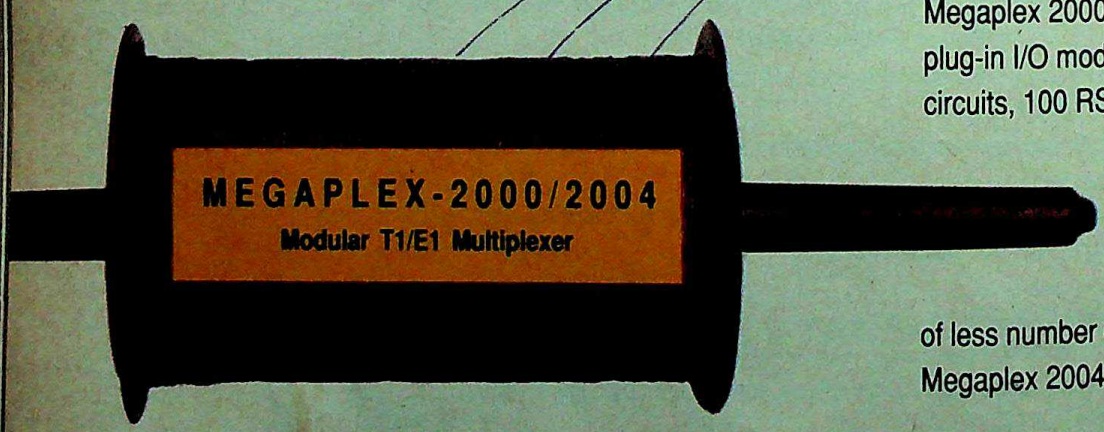
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YOUR DATA, VOICE AND FAX

The ability to transmit data, voice and fax over a leased line is essential to any business that depends on speedy exchange of information. And the ability to do it at high speed is what can give you the competitive edge.

That's why you need Megaplex 2000.

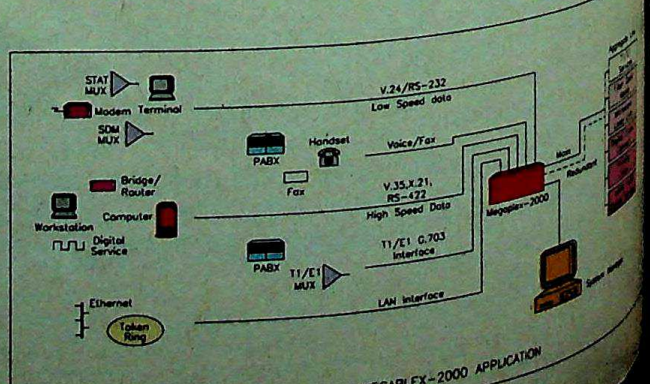


Megaplex-2000 is a flexible time division multiplexer integrating data, voice, fax and LAN onto T1, E1, Digital Data Services or fiber links. The T1/E1 main link modules provide connection to T1/E1 carrier services, or private links, with or without CSUs or LTUs. The Digital Data Service interface (V.35 or V.11) can operate at data rates ranging from 128 up to 1920 kbps. The fiber optic interface can operate at a distance of up to 20 km, making it ideal for local applica

The modular design of Megaplex 20 supports optional redundant modules for backup link common control card and power supply.

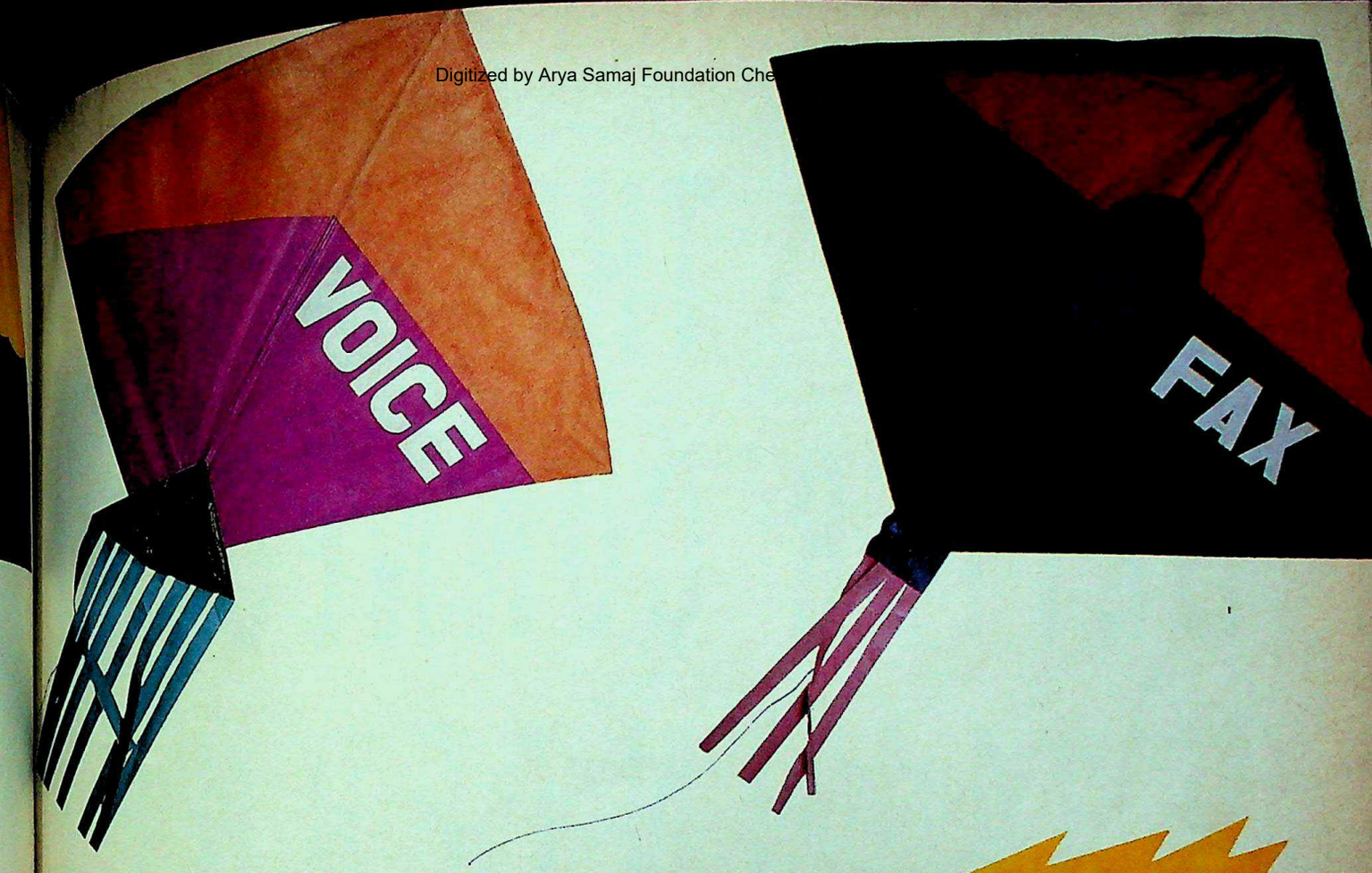
Megaplex 2000 comes with 10 I/O slots and 27 different plug-in I/O modules. It can support upto 40 high speed circuits, 100 RS-232 data circuits, or 55 voice circuits

Its menu-driven management syst supports different configurations with full control and monitoring of up 50 multiplexers. Users with requirem of less number of I/O channels have the option of the Megaplex 2004 which comes with 4 I/O slots.



CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection. Digitized by eGangotri

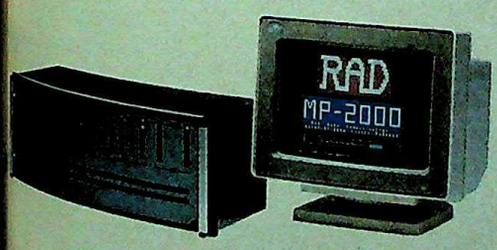
Digitized by Arya Samaj Foundation Che



FAXLYING TOGETHER AT 2 MBPS.

Main Application of the Megaplex 2000/2004

- Access mux to T1/E1 networks
- Point-to-point
- Drop & insert with bypass
- Star networks with DXC DACs and Kilomux - 2000 sub-rate muxes



The RADvantage. From MRO-TEK

The Megaplex-2000/2004 is one in the series of winning products from RAD Data Communications, one of the world's leading companies in networking products with presence in 60 countries and a roster of Fortune 500 customers.

MRO-TEK is the country's most trusted name in the field of data communications and networking with a total range of products. Through its tie-up with RAD, MRO-TEK now brings you world-class WAN/LAN solutions strengthened by local manufacturing of selected products and country-wide support.

GET THE RAD VANTAGE

BROUGHT TO YOU BY MRO-tek

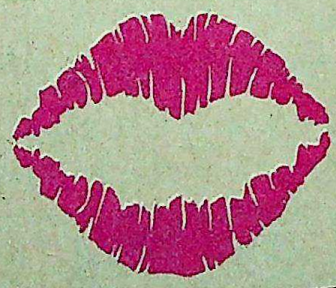
MRO-TEK Pvt. Ltd. P.B.No.3203, 16/11, 1st 'C' Main, Ganganagar, Bangalore 560 032 Ph : 3338201/3332951/3433763/3337408
Fax : 3333415 Tlx : 0845-8317 MRO IN.
Authorised Distributors : **Ahmedabad** : 401241 **Bombay** : 3769091/3736162/4944738/4948432/4954738 **Calcutta** : 4756740/4746122
New Delhi : 3321131/3716398 **Madras** : 827150/4346763/4341853 **Pune** : 328442

MAREECH

CC-0. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE FASTER, BETTER CONNECTED V.34 INTERNET READY FAX MODEM WITH VOICE



Introducing the GVC Voice Fax Modem from Lanbit

Lanbit introduces the GVC Voice Fax Modem to India. With the vast and rapid expansion of the Internet you need products with successful track records and Internet connectivity.

The GVC Voice Fax Modem offers you Internet connectivity, the answering machine facilities plus a range of exciting features that are wide enough to cover your every need.

- Voice Mail
- Voice Bulletin Board Service
- Group 3 Fax Compatible
- 14400/28800 bps - internal/external
- 5 year warranty.

Who else can understand and satisfy the needs of the nineties better than Lanbit, a company aspiring to become India's number one networking company over the next six months.

Lanbit

LANBIT INDIA PVT. LTD.: Mumbai: Telefax.: 835 4280. **Delhi:** Telefax.: 622 2116. **DISTRIBUTORS: Maharashtra, Gujarat & Goa:** Solutions, Tel.: 412 3100, 416 3679/3680. **Bangalore:** Lanmaster, Tel.: 621561. **DEALERS: Delhi:** Vidur & Co. Pvt. Ltd., Tel.: 622 3[illegible] Telefax.: 6219159. **Madras:** Apex Computers Pvt. Ltd., Tel.: 499 5667/3782/7108, Fax.: 4993202.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

14.4ext (WS-1414 EV7) 14.4 kbps external on-line fax modem with built-in features like hardware error correction etc. **Price:** Rs 9,299 **Vendor:** Parekh Micro Electronics (India) Ltd. **RQS#** 70283

14.4 14.4 kbps fax-modem with voice mail software. **Price:** Rs 7,000 (Internal); 9,500 (External) **Vendor:** Graham Information Systems **RQS#** 70284

14.4 PCC Maxtech's 14.4 kbps fax modem card for notebook and laptop users. **Price:** Rs 10,000 **Vendor:** Graham Information Systems **RQS#** 70285

2.4 Fax modem. **Price:** Rs 2,000 **Vendor:** Graham Information Systems **RQS#** 70286

28.8 GVC/Maxtech 28.8 kbps fax-modems; internal and external units. **Price:** Rs 14,500 (Internal) 16,500 (External) **Vendor:** Graham Information Systems **RQS#** 70287

Modems 14.4 kbps and 28.8 kbps models with voice, data and fax capability. **Price:** NA **Vendor:** Datamatics **RQS#** 70288

3296E High-end dial-up and leased-line 14.4 kbps fax-modem. **Price:** Rs 35,700 **Vendor:** Worldwide Technologies Ltd **RQS#** 70289

Powered Modem Hayes compatible modem for remote sites where no AC power is available. Draws power directly from the line. **Price:** Rs 19,900 **Vendor:** Trans-Tel Communications **RQS#** 70290

tech 14.4 kbps 14.4 kbps external fax-modem. **Price:** Rs 9,950 **Vendor:** Graham Information Systems Pvt Ltd **RQS#** 70291

tech 14.4 kbps Internal Fax-Modem GVC/Maxtech 14.4 kbps internal fax-modem. **Price:** Rs 7,000 **Vendor:** Graham Information Systems Pvt Ltd **RQS#** 70292

tech 28.8 GVC/Maxtech 28.8 kbps, V.34 external fax-modem. **Price:** NA **Vendor:** Graham Information Systems Pvt Ltd **RQS#** 70293

tech 28.8 Internal Fax-Modem GVC/Maxtech 28.8 kbps, V.34 internal fax-modem. **Price:** Rs 14,500 **Vendor:** Graham Information Systems Pvt Ltd **RQS#** 70294

tech PCMCIA Fax-Modem PCMCIA fax-modem. **Price:** Rs 10,500 **Vendor:** Graham Information Systems Pvt Ltd **RQS#** 70295

n 28.8 Fax 28.8 kbps fax/modem with internal/external voice card and bundled software. **Price:** Rs 12,000 **Vendor:** Moon Computers Manufacturing Industry **RQS#** 70296

rola 326XFast And SDC Continuous leased-line monitor--V.32bis and V.34bis models. Allows synchronous data compression. **Price:** Rs 51,000 **Vendor:** Motorola Ltd **RQS#** 70297

rola FasTalk Plus V.32bis, 14.4 kbps modem with fax, data and voice mail. **Price:** Rs 9,900 **Vendor:** Motorola Ltd **RQS#** 70298

rola Fastalk Premier V.34bis, 28.8 kbps modem, with fax, data and voice mail. **Price:** Rs 19,900 **Vendor:** Motorola Ltd **RQS#** 70299

rola Lifestyle 28.8 kbps, V.34 compliant external desktop modem. **Price:** Rs 20,500 **Vendor:** Motorola Ltd **RQS#** 70300

modem 2DXI 2834 Multitech's 28.8 kbps fax-modem. **Price:** Rs 18,800 **Vendor:** Multi-Tech Computers **RQS#** 70301

us 1414 PC Internal 14.4 kbps data/fax/voice modem; V.42/V.42 bis compliant. **Price:** Rs 10,000 **Vendor:** Nomus Comm Systems **RQS#** 70302

us 1414 SD 14.4 kbps modem with remote configuration. **Price:** Rs 25,000 **Vendor:** Nomus Comm Systems **RQS#** 70303

us 1414 SE 14.4 kbps data/fax/voice modem with V.42/V.42bis. **Price:** Rs 12,500 **Vendor:** Nomus Comm Systems **RQS#** 70304

us 1414 SI 14.4 kbps data/fax modem. **Price:** Rs 17,500 **Vendor:** Nomus Comm Systems **RQS#** 70305

us 144 RK 14.4 kbps fax-modem. **Price:** Rs 22,500 **Vendor:** Nomus Comm Systems **RQS#** 70306

us 2814 PC Internal 28.8 kbps fax/voice modem. V.42/V.42 bis, compact. **Price:** Rs 10,000 **Vendor:** Nomus Comm Systems **RQS#** 70307

us 2814 SD V.34/V.42bis compliant 28.8 kbps fax modem with wake-up function and 14.4 kbps fax. **Price:** Rs 32,500 **Vendor:** Nomus Comm Systems **RQS#** 70308

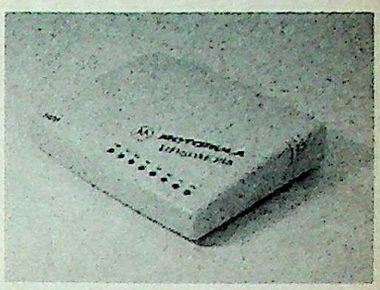
us 2814 SE V.42/V.42bis compliant 28.8 kbps fax/voice modem. **Price:** Rs 20,000 **Vendor:** Nomus Comm Systems **RQS#** 70309

us 2814 SI V.42/V.42 bis compliant 28.8 kbps fax-voice modem. **Price:** Rs 25,000 **Vendor:** Nomus Comm Systems **RQS#** 70310

a 288 RK 28.8 kbps 19 inch rack-mounted, fax-modem. **Price:** Rs 27,500 **Vendor:** Nomus Comm Systems **RQS#** 70311

us 9624 SE V.42/V.42 bis compliant 2400 bps data and 9600 bps fax modems. **Price:** Rs 7,500 **Vendor:** Nomus Comm Systems **RQS#** 70312

Modem Modem with built-in voice-mail and fax-on-demand support. **Price:** Rs 8,000 (1414-External); 6,300(1414-Internal); 4,100(9624-External); 2,700(9624-Internal) **Vendor:** Lee & Nee Software **RQS#** 70313



Fax-modems are an essential part of the SOHO desktop today

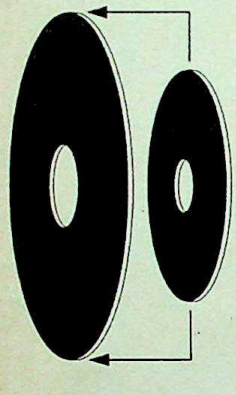
HARDWARE
DATACOM: MODEMS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

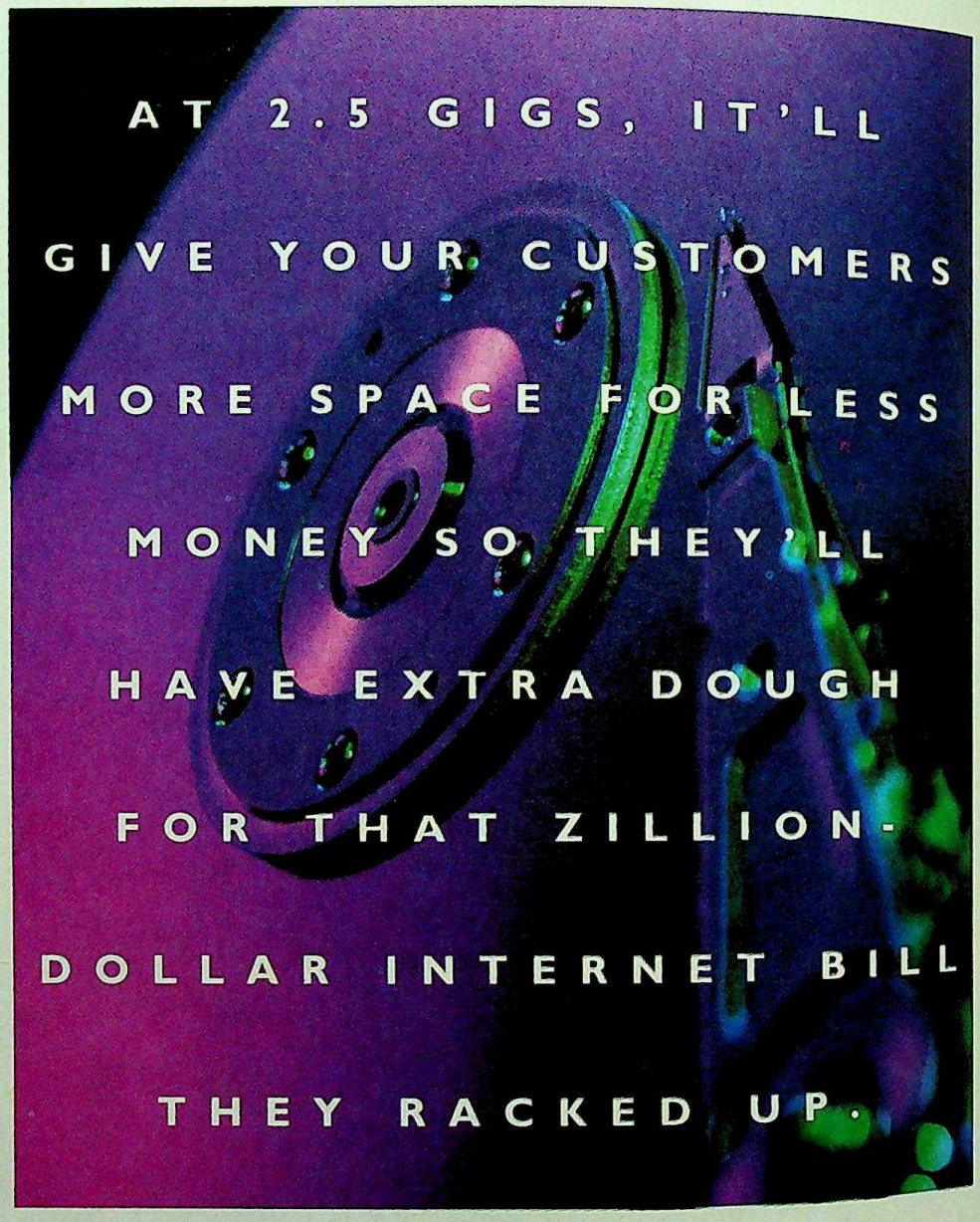
Digitized by Arya Samaj Foundation Chennai and eGangotri

BIGFOOT

It's big. It's powerful. And it'll give you far more gigabytes for your money. Meet Bigfoot™. Our newest desktop hard disk drive. With specifications like these, it's bound to make a huge impact.



Bigfoot gives you 90% more recording area per disk than a 3½" drive. (2.5GB on a 5¼" footprint to be exact.) Yes, that's the same footprint as a CD-ROM drive. And because it's so large, Bigfoot's high-speed sequential data transfers enhance any multimedia application.



Unlike that elusive, forest-dwelling creature, this Bigfoot is easy to find. You can either stop by our Web site at http://www.quantum.com or you can contact one of our distributors. And whatever you do, don't forget to enter a drawing on our Web site to win your very own Bigfoot drive.

Quantum
CAPACITY FOR THE EXTRAORDINARY™

©1996 Quantum Corporation. The Quantum logo and Bigfoot are trademarks of Quantum Corporation. Offer is void where prohibited by law

Spectra Innovations, Inc. (Master Distributor) - Singapore Tel: (65) 271 0016 - Bangalore Tel: (91 80) 558 8323

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Datatech Active Voice Modem Voice, fax, data modem. Has voice-mail support, fax on demand and remote retrieval with pager alert. **Price:** Rs 7,750 **Vendor:** Logix Datacom Ltd **RQS#** 70314

Datawell 14.4 kbps Internal fax modem, V.42 bis and MNP-5 error correction. Auto detect for voice and fax. **Price:** Rs 5,500 **Vendor:** Datatrac Computer Systems **RQS#** 70315

Transmatic Modem 14.4 kbps modem with built-in fax. **Price:** Rs 14,000 **Vendor:** Transmatic Systems Ltd **RQS#** 70316

Acme 2000 PnP adapter card that can turn your PC into a fax, answering machine, audio playback recorder, or data modem. **Price:** Rs 6,990 **Vendor:** Acme Computers Enterprise **RQS#** 70317

3Com Robotics Modems 14.4 kbps, V.32bis compliant fax modem. **Price:** Rs 10,500 **Vendor:** Direct Enterprises **RQS#** 70318

Worldwide 3296E 14.4 kbps data/fax modem with V.42 bis/MNP 5 data compression and V.42/MNP 4 error correction. **Price:** Rs 13,500 **Vendor:** Worldwide Technologies **RQS#** 70319

Worldwide 3428E 28.8 kbps data modem with 14.4 kbps fax, V.42bis/MNP 5 data compression and V.42/MNP 4 error correction. In-built security options. **Price:** Rs 19,500 **Vendor:** Worldwide Technologies **RQS#** 70320

Worldwide 1414-I 14,400 bps voice/fax modem bundled with voice mail software. **Price:** Rs 10,500 **Vendor:** Worldwide Technologies **RQS#** 70321

Worldwide 1414E 14.4 kbps fax/voice modem, V.42 bis data compression. **Price:** Rs 11,500 **Vendor:** Worldwide Technologies **RQS#** 70322

Worldwide 2814E Modem with 28.8 kbps speed, V.42 error correction and V.42 bis data compression. **Price:** Rs 16,500 **Vendor:** Worldwide Technologies **RQS#** 70323

Worldwide Challenger 192 19.2 kbps V.32 data/fax modem. Operates on dial-up and leased lines. **Price:** Rs 23,500 **Vendor:** Worldwide Technologies **RQS#** 70324

Worldwide ITM 288 28.8 kbps V.34/V.32bis compliant data/fax modem. Operates on both PSTN/leased lines. **Price:** Rs 60,000 **Vendor:** Worldwide Technologies Ltd **RQS#** 70325

Worldwide ITM 3296 Modem with fax support, leased-to-dial-up backup, etc. **Price:** Rs 33,500 **Vendor:** Worldwide Technologies Ltd **RQS#** 70326

Worldwide Modems Offer data transmission speeds up to 14.4 kbps. **Price:** Rs 12,000 **Vendor:** Datamarg Systems Pvt Ltd **RQS#** 70327

Worldwide T-288 Offer speed up to 28.8 kbps and PSTN/4-wire leased line support. **Price:** Rs 50,000 **Vendor:** Worldwide Technologies Ltd **RQS#** 70328

Zoom AF Modems with error correction. **Price:** Rs 3,900..5,400 **Vendor:** Adroit Technologies Inc **RQS#** 70329

Zoom COMSTAR Fax modems with voice mail, answering machine, speakers and microphone. **Price:** Rs 13,900 (14.4 kbps); 22,900 (28.8 kbps) **Vendor:** Adroit Technologies Inc **RQS#** 70330

Zoom Modem Zoom VFX V.32bis 14,400 bps external and VFP V.32bis internal modems with hardware error correction and V.42bis MNP5 data compression. **Price:** Rs 11,950 **Vendor:** Context Concepts **RQS#** 70331

Zoom V.32bis Fax-modem. **Price:** NA **Vendor:** Adroit Technologies Inc **RQS#** 70332

Zoom V.34 Fax modems. **Price:** NA **Vendor:** Adroit Technologies Inc **RQS#** 70333

Zoom VFP V.34 (Internal) Model 275-00 28.8 kbps data/fax data compression and error correcting internal modem. **Price:** Rs 16,950 **Vendor:** Amdale Software Technology Pvt Ltd **RQS#** 70334

Zoom VFX V.34 (External) Model 450-00 28.8 kbps data/fax, data compression and error correcting external modem. **Price:** Rs 22,950 **Vendor:** Amdale Software Technology Pvt Ltd **RQS#** 70335

Zoom Voice Comstar 14.4 Model : 610-00 (Internal) Speakerphone/voice/fax modems with digital answering machine and voice mail. **Price:** Rs 13,950 **Vendor:** Adroit Technologies Ltd **RQS#** 70336

Zoom Voice Comstar 28.8 Model: 620-00 (Internal) Speakerphone/voice/fax modem with digital answering machine and voice mail. **Price:** Rs 22,950 **Vendor:** Adroit Technologies Ltd **RQS#** 70337

Zoom Voice Comstar 28.8 with DSVD Model: 623-00 Speakerphone/voice/fax modem with digital answering machine and voice mail in one slot card. **Price:** Rs 28,950 **Vendor:** Adroit Technologies Ltd **RQS#** 70338

Zoom Fax Modem VFX (External)-Model 350-00 14.4 kbps data/fax, data compression and error correcting external modem. **Price:** Rs 10,950 **Vendor:** Amdale Software Technology Pvt Ltd **RQS#** 70339

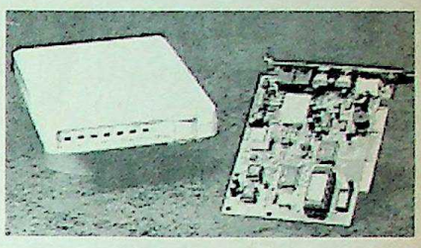
Zoom Voice 14.4V (External) Model 425-00 Send/receive fax modem with 14.4 kbps and voice modem. **Price:** Rs 17,950 **Vendor:** Amdale Software Technology Pvt Ltd **RQS#** 70340

Zoom Voice VFP 14.4 with voice(Internal) Model 180 Send, receive fax modem with 14.4 kbps speed and voice mail. **Price:** Rs 10,950 **Vendor:** Amdale Software Technology Pvt Ltd **RQS#** 70341

ZyXEL Elite 2864 ZyXEL's top-of-the-line 28.8 kbps, V.34 voice/fax modem. ISDN upgradable. **Price:** Rs 37,800 **Vendor:** XON Communications **RQS#** 70342

XON Omni 288S 28.8 kbps, V.34 compliant modem. Operates on dial-up/2-wire leased lines. **Price:** Rs 25,000 **Vendor:** XON Communications **RQS#** 70343

XON U-1496 19.2 kbps, 2/4-wire leased line data/voice/fax modem. **Price:** Rs 35,000 **Vendor:** XON Communications **RQS#** 70344



Though desktop modems pack better features, internal card modems always have the price edge

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Sound Expression is an internal Multimedia product that handles the work of 5 products all on a single PC card. It offers fast Internet access with its 28,800 bps data, 14,400 bps Group 3 send/receive FAX modem capability, a voice mail system, full duplex speaker-phone and full 16-bit sound card with CD-ROM drive interfaces. So now PC-users be it from corporate or small/medium business, or professionals and home users, can surf the NET for critical information, e-mail or FAX messages with business colleagues, or play Multimedia CD's all without leaving the desktop. So next time you're looking for a plain Multimedia kit or just a FAX/modem, think again. You should insist on the Sound Expression, it will truly give you total Freedom of Expression. Or if you are interested in OEM Partnerships, call us at 91-80-5543106 or e-mail *powertel@giasbg01.vsnl.net.in* or FAX 91-80-5

SOUND EXPRESSION

GIVE YOUR PC FREEDOM OF EXPRESSION.

Sound Expression with multimedia, modem, FAX and phone capabilities.

PowerTel

Making your PC come alive.

POWERTEL BUSINESS PARTNERS: **Bangalore**- Future Technologies, PH: 6650876 / 646024; FAX: 644457 **Mumbai** - Alms International, Ltd. PH: 3891777; FAX: 3895590 **Calcutta**- MCC Resources (P) Ltd. PH: 4760[illegible] FAX: 745303 **Madras** - Megatrends Ltd. PH: 8250142 / 8283602 / 8273750; FAX: 8250640 **New Delhi** - Hytex Systems (P) Ltd. PH: 4602882 / 4610601 / 4647881; FAX: 4602881 **Pune**- Shanark Digital Systems (P) Ltd. PH: 3352664, 3306613. Secunderabad - [illegible] FAX: 353701. **Hyderabad** - Comiga Communications PH: 296935. **POWERTEL AUTHORISED RESELLERS:** **Bangalore**- RCS Technologies PH: 5598999/5589468. Mutech Micro Systems PH: 4141855, 4113375; Fax: 4145204. **Delhi**- Cox Systems PH: 5587509. **Mumbai**- Excel Systems Ph: 2062766, 2067561; Fax: 2023497. Trius Marketing Pvt. Ltd. PH: 8213838, 8204170; Fax: 8224305. Born Communications Ph: 4141855, 4113375; Fax: 4145204. Delhi- Cox Systems PH: 2250658. 2256497; Fax: 2256042. Micro Touch Systems PH; 5447359, 5421633. Prosoft computer Services PH: 5428526, 5105218. Micro Sys PH: 6428726. HP Sud Overseas Pvt Ltd PH: 7778469, 7774[illegible] **Madras** - Oriental Electronics PH: 4838531; Fax: 4839469. Access Communication Systems PH: 2351377; Fax: 2351377. **Cochin**- Innovative Computers PH: 313006, 312667; Fax: 322417. **TANGERINE STORES.**

Digitized by Arya Samaj Foundation Chennai and eGangotri

L U-1496E Offers auto data/fax recognition, auto fall-back, fall-forward and digitized voice options. 16,800 ps with other ZyXELs. **Price:** Rs 18,500 **Vendor:** XON Communications **RQS#** 70345

U-1496E Plus 16,800 bps. All U-1496E features, plus display. **Price:** NA **Vendor:** Xon Communications **RQS#** 70346

MONITORS

SVGA HCL Mono Monitor Flicker-free, anti-glare, high-resolution, flat screen monitor. **Price:** Rs 4,250 **Vendor:** HCL Peripherals Ltd **RQS#** 70347

14" Color Monitor (M1438S) 14" monitor compatible with all standard video sources. Automatically selects the input frequency. **Price:** NA **Vendor:** Silicon Holdings & Finance Pvt Ltd **RQS#** 70348

aan SVGA Monitor Antiglare, low-radiation, high-resolution, flat-screen, SVGA monitor. **Price:** Rs 4,300 **Vendor:** Armaan Electric Ltd **RQS#** 70349

S 14" SVGA mono/color monitors. **Price:** Rs 3,700 **Vendor:** Kunhar Peripherals Pvt Ltd **RQS#** 70350

50 SVGA color monitor. **Price:** Rs 11,500 **Vendor:** VXL Instruments **RQS#** 70351

51 Monochrome SVGA monitor. **Price:** Rs 3,800 **Vendor:** VXL Instruments **RQS#** 70352

anao Flexscan F764 21" SVGA color monitor with anti reflection coating, 80 Hz refresh rate, on-screen digital display control, etc. **Price:** Rs 95,900 **Vendor:** Minicomp Ltd **RQS#** 70353

Monitors Mono VGA monitors with LED display indicator. Supports resolutions upto 1024x768. **Price:** Rs 3,650 **Vendor:** Jaydee Electronics **RQS#** 70354

Term Display terminal with keyboard, parallel and serial ports, non-volatile RAM. Useful for signature display in banks. **Price:** Rs 24,995 **Vendor:** HCL Peripherals Ltd **RQS#** 70355

Manufacturing Instrument Soft white monochrome 14" monitor. **Price:** NA **Vendor:** General Instruments **RQS#** 70356

rs (DFL) Dual frequency 14" monitors. **Price:** Rs 2,550 **Vendor:** General Instruments **RQS#** 70357

ultisync XE 21" Monitors 21" 1280x1024 FST with non-interlaced OSM accucolor controls and PnP features. **Price:** Rs 115,000 **Vendor:** Digital World India Ltd **RQS#** 70358

14l Energy star VGA/SVGA 14" monitor with 0.28dp and 1024 x 768 interlaced resolution. **Price:** Rs 14,500 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70359

15A PnP 15" monitor with 0.28dp, 1280 x 1024 non-interlaced. Autoscan and MRP II, speakers with headphones and volume control. **Price:** Rs 30,000 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70360

17B Energy-Star 17" 0.28dp flat screen multimedia monitor with 0.28 dpi resolution. Headphones, autoscan with OSD, digitally controlled color and geometry adjustments. **Price:** Rs 56,000 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70361

20C PC/Mac compatible 20" autoscan monitor with PnP features and 1280x1024 non-interlaced resolution. **Price:** Rs 78,000 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70362

21B 21" color monitor with 0.28 dot-pitch color control, 1280x1024 non-interlaced resolution. LCD display with user definable RGB settings. **Price:** Rs 136,000 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70363

Color Monitor Standard SVGA color monitor. **Price:** Rs 10,000 **Vendor:** Alpine Computers **RQS#** 70364

Monochrome Monitor Low radiation, anti-glare, ergonomically designed monitors with tilt control. **Price:** Rs 4,300 **Vendor:** Armaan Electric Ltd **RQS#** 70365

15" color monitor which supports 1280x1024 non-interlaced resolution. **Price:** Rs 24,500 **Vendor:** Roop Electronics & Allied Industries **RQS#** 70366

onic 20 PS 20" colour monitor which supports 1500x1280 non-Interlaced resolution with 0.28 dot pitch, color control. **Price:** Rs 80,000 **Vendor:** Roop Electronics & Allied Industries **RQS#** 70367

onic 4E 14" color monitor which supports 1024x768 resolution. **Price:** Rs 12,500 **Vendor:** Roop Electronics & Allied Industries **RQS#** 70368

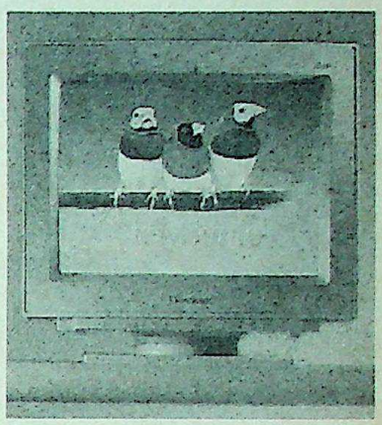
onic E-640 14" non-interlaced monitor with 1024x768 resolution and supports a high refressh rate of 75 Hz. **Price:** Rs 12,950 **Vendor:** Roop Electronics & Allied Industries **RQS#** 70369

onic-17EA 17" multimedia monitor with built-in speaker and supports 1280x1024 resolution with on-view control. **Price:** Rs 46,500 **Vendor:** Roop Electronics & Allied Industries **RQS#** 70370

onic-17GS 17" 0.27 dot-pitch color monitor with non-interlaced resolution up to 1280x1024. Supports on-view controls. **Price:** Rs 46,000 **Vendor:** Roop Electronics & Allied Industries **RQS#** 70371

onic-17PS 17" non-interlaced monitor with resolution upto 1600x1280. **Price:** Rs 58,000 **Vendor:** Roop Electronics & Allied Industries **RQS#** 70372

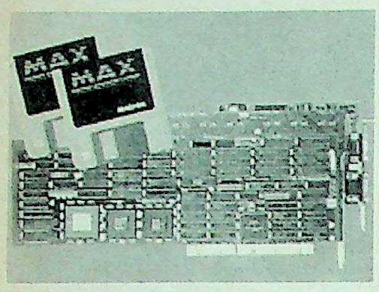
onic-21PS 21" color monitor, supporting 1600 x 1280 NI resolution. **Price:** Rs 120,000 **Vendor:** Roop Electronics & Allied Industries **RQS#** 70373



High-resolution color monitors are often important even for business applications

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri



High-end video cards have brought the PC into the domain of video editing hardware

HARDWARE
MULTIMEDIA

AVerKey Plus Pocket sized PC to video convertor; supporting 64k colors in 640x480 and 800x600 r... **Price:** Rs 8,500 **Vendor:** Tricom Multimedia **RQS#** 70374

Acer Multimedia Kit Includes quad-speed CD-ROM drive, stereo speakers, microphone and CD-R... **Price:** Rs 11,900 **Vendor:** Decision Plus Systems Inc. **RQS#** 70375

Aztech Video Galaxy Gamma Offers 99-channel TV tuner, boradcast-quality output, stereo audio, ... for video capturing and editing. **Price:** Rs 14,800 **Vendor:** Digital World India Ltd **RQS#** 70...

Aztech Video Galaxy Oscar Pro MPEG Offers MPEG-I compliant full motion playback, composite ... output to TV/VCR, 16.8 million colors, stereo audio and YUV video format. **Price:** NA **Vendor:** ... World India Ltd **RQS#** 70377

COMET Color and monochrome frame grabber for PCI bus with integrated display and memory. ... 120,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 70378

Cerebra Infiniti Pentium-60, 8 MB RAM, 1.44 MB FDD, 630 MB HDD, SVGA color monitor, mouse, ... CD-ROM drive, sound card, microphone, fax/modem/voice card with preloaded Win 3.11, ... 111,500 **Vendor:** Cerebra Integrated Technologies Ltd **RQS#** 70379

Compro Plug N Play Sound Card Built in wave table synthesizer; MPC3 compliant; compatible with ... table daughter boards. **Price:** Rs 6,000 **Vendor:** Datalinker **RQS#** 70380

Compro VIDEO CD Player Delivers digital sound based on MPEG 1 standard; supports video CD ... MTV CD, music CD etc. **Price:** Rs 24,000 **Vendor:** Datalinker **RQS#** 70381

DPS-Perception Video Recorder PVR-3500 PAL with AD PCI based digital video disk record... nonlinear editing system. Support for Intel, Dec Alpha, and MIPS processors. **Price:** Rs 250,000... CAG Station **RQS#** 70382

DPS-Personal Animation Recorder Allows ISA based disk recording and real time playback of ... animation sequences directly from an IDE hard disk. **Price:** Rs 210,000 **Vendor:** CAG Station ... 70383

Daewoo Mars - MPEG Animation Recorder VHS quality animation recorder with real time playb... frames per second. **Price:** NA **Vendor:** CAG Station **RQS#** 70384

Lips Creation Station Multilingual system for quick subtitling. **Price:** Rs 300,000 **Vendor:** C-DAC **RQS#** ...

Lips Receiver Helps in selecting desired languages from digitally sub-titled TV programmes. **Price:** Rs ... **Vendor:** C-DAC **RQS#** 70386

M8 Frame Grabber Monochrome video digitizer board (frame grabber) for ATs. **Price:** Rs 27,500 ... Mediatronix **RQS#** 70387

MOVE Multilingual character generator for professional studio grade requirements. **Price:** Rs 350,000... C-DAC **RQS#** 70388

MPEG Lab Suite Set of two cards for real-time MPEG-1 video and audio compression to create MPEG... Video-CD files. **Price:** Rs 1,200,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 70389

MPEG VideoPro It compresses video and plays back MPEG-1 files; encodes MPEG-1 files for CD... VideoCD in real time. **Price:** Rs 630,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** ...

MPEG-1/EX Video Communication Links Uses streams to communicate video and audio in real-time ... cities or between cities. **Price:** Rs 1,500,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** ...

MS Sound System Microsoft's solution for sound on the PC. **Price:** $55 **Vendor:** Ultimedia System ... **RQS#** 70392

Magic Multimedia Kit Package for developing multimedia applications. **Price:** Rs 7,000 **Vendor:** ... Electronics **RQS#** 70393

Matrox Animation Xpress Allows you to play back computer animations from a hard disk in real time and ... them directly to videotape. **Price:** Rs 430,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** ...

Matrox Digital Video Building Blocks For nonlinear editing, digital video broadcasting, digital video ... 2D and 3D computer graphics, etc. **Price:** Rs 275,000 **Vendor:** Benchmark Microsystems Pvt Ltd ... 70395

Matrox Illuminator-Pro Allows character generation, graphics, animation, paint and still storage to ... on a PC. **Price:** Rs 230,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 70396

Matrox Marvel Millennium Multipurpose audio video controller which incorporates MGA and provides ... audio video MPEG decoding. **Price:** Rs 50,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** ...

Matrox Studio Desktop video-editing solution that allows non-linear editing with online quality. ... 1,000,000 (Model 2000P) **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 70398

Meteor PCI color and monochrome frame grabber with real-time transfer to system or display ... machine vision, image analysis and medical imaging applications. **Price:** Rs 120,000 **Vendor:** ... Microsystems Pvt Ltd **RQS#** 70399

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

EXTENDING YOUR REACH

Do you get left out in the cold, cut off from your office LAN, just because you are at a remote location ? Worry no more. Your PC can now virtually function as a remote node of your office LAN no matter where you are. With the help of MultiCom Remote Node Gateway (RNG) - a family of PPP communications servers incorporating MultiCom RNG, the software component, as well as a set of ISI cards.

THE MAGIC OF RNG

Connect to RN Server and your PPP remote client at once turns into a fully featured node of any IP/IPX network.

RNG'S WELCOME FEATURES

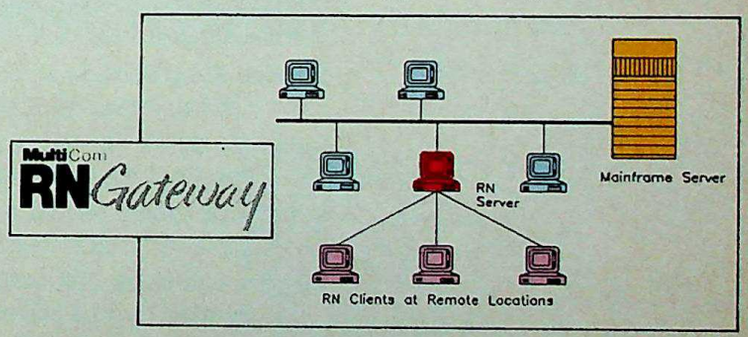
▮ High-speed dial-in/dial-out ▮ RN Server management utilities ▮ Remote console for logging in/viewing/controlling on DOS/Windows ▮ LAN access to 32 users at a time.

DIVERSE UTILITIES

▮ Modem and phone line pooling ▮ Access to Internet ▮ Ability to plug into office LAN from home.

TOTAL BACK-UP

RN Gateway is offered by MultiTech Software Systems, a part of the MultiTech group, market leaders in networking and datacommunications, noted for superior and resources – sharing technologies and effective total solutions that include professional, customer-sensitive post-marketing support throughout India.



To extend your reach across LANs reach us at any of our marketing nodes listed below :

MultiTech
Software Systems
There is more to MultiTech than modems.

MAREECH

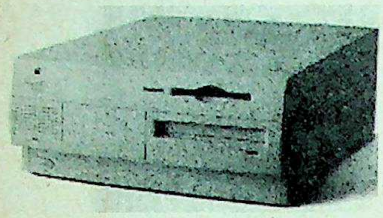
MultiTech Software Systems India Pvt. Ltd.
Head Office : 1, HAL 2nd A Stage, 17th Main, 100 Feet Road, Indiranagar, Bangalore - 560 008
Ph : 5260083/5273258 Fax : 080-5273258.

Branch Offices :
Mumbai : Ph : 6323411/6317017 **Delhi** : Ph : 6488633 **Madras** : Ph : 4825328 **Secunderabad** : Ph : 804788 **Calcutta** : 2409521

Authorised Dealers :
Ahmedabad : Kirti Sales : Ph : 463466/463766
Mumbai : Sandeep Computers Ph :4954738/4944738, Prolink Computers : Ph : 5690213, Ashtech Infotech Pvt. Ltd. : Ph : 4936814/4927388
Calcutta : Microcom : Ph : 4660018/4666760/4665840, Oasys Consultancy Ph : 268189 **Delhi** : MultiTech Computers Ph : 600286, KUSP Electronics : Ph : 6823691, Next Generation Systems Ltd. Ph : 3270279, **Hyderabad** : Mohan Marketing Associates : Ph : 846863/849929, Susha Technologies : Ph : 391954/318609, **Pune** : WorldTech Marketing & Computer Services : Ph : 458317.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Workgroup servers such as this Mac 7250 serve the file, application, print and Internet needs of mid-size workgroups

HARDWARE

NETWORKING

Movie Wave Interactive Plus (Multi Wave) Card with TV Tuner, video capturing, MPEG with video sync with 124 channels and 3D surround sound. **Price:** Rs 21,000 **Vendor:** **RQS#** 70400

Multiprompter Video equipment for prompting newsreaders. Offers text entry in any Indian language. **Price:** Rs 370,000 **Vendor:** C-DAC **RQS#** 70401

Neelam 16 PNP 16-bit plug n' play sound card with 24 watt stereo speakers, microphone, ROM interface and 6 volt output for speakers. **Price:** Rs 6,000 **Vendor:** Tricom Multimedia

PVR 3500 PAL Perception Video Recorder, a full length PCI/SCSI interface. Records and animation in real time. **Price:** Rs 250,000 **Vendor:** Silicon Holdings & Finance Pvt Ltd

Personal Animation Recoder-DR 3100 Allows recording and real-time playback of sequences directly from hard drive. **Price:** Rs 210,000 **Vendor:** Silicon Holdings & Finance

Pulsar Monochrome PCI frame grabber with real-time transfer to system memory. **Price:** Benchmark Microsystems Pvt Ltd **RQS#** 70405

Sound Blaster Cards Sound cards for PCs. **Price:** Rs 3,000 **Vendor:** Alpine Computers

Sound Cards Supports all 16-bit interfaces. **Price:** Rs 2,200 **Vendor:** Jaydee Electronics

Sound Exchange 8-bit sound card for computer-based communications. **Price:** NA **Vendor:** Systems **RQS#** 70408

TV Wonder (Genius) Card with cable set, remote control, antenna adapter, batteries, utility Rs 15,400 **Vendor:** Compex Systems **RQS#** 70409

Targa 200 Pro PCI For broadcast quality graphics and animation, and development of Rs 500,000 **Vendor:** Miracle Fx Multimedia Solutions **RQS#** 70410

VGA AVer Pro Broadcast quality VGA card with PAL convertor, genlock overlay and **Price:** Rs 34,000 **Vendor:** Tricom Multimedia **RQS#** 70411

VGA to Video Portable PRO PC and Mac compatible computer display on TV and VCR resolution. **Price:** Rs 59,900 **Vendor:** Trans-Tel Communications **RQS#** 70412

VideoPlex MPEG-2 Playback Board Decodes digital audio and video sequences in PAL or supports CCLD-601 and STF resolutions at 1..15MB per second. **Price:** Rs Benchmark Microsystems Pvt Ltd **RQS#** 70413

Virtual Recorder Provides video disk recording and playback with variable motion and 3:1 to 20:1. **Price:** Rs 1,650,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 70414

NETWORKING

BeeHub-XI 16 twisted-pair ports, one AUI/BNC port, SNMP management support, 19inch cabinet. **Price:** Rs 32,000 **Vendor:** HCL Peripherals Ltd **RQS#** 70415

CMS Line Driver Connect RS232C peripherals up to 5 kms apart at 9.6 kbps and more. **Vendor:** Creative Micro Systems **RQS#** 70416

Cygnus Linkshare 508 V2 8-port statistical multiplexer. Used for terminal to computer applications such as railway reservations. **Price:** NA **Vendor:** Cygnus Microsystems

Cygnus Linkshare 700 16/32 port dual-link data compression multiplexer for Async devices. **Vendor:** Cygnus Microsystems **RQS#** 70418

Cygnus Linkshare 701 16-port dual-link data compression statistical multiplexer. **Price:** NA Microsystems **RQS#** 70419

DE-1200 12-port Ethernet stackable hub with SNMP upgradability. **Price:** Rs 23,260 Computers Pvt Ltd **RQS#** 70420

DE-1400 Stackable hub with BNC, AUI and fibre port modules. Fvie hubs can be stacked to 118 ports per stack. **Price:** Rs 34,000 **Vendor:** Debug Computers Pvt Ltd **RQS#** 70421

DE-620 CT Pocket LAN Adapters designed for notebooks. **Price:** Rs 5,190 **Vendor:** **RQS#** 70422

DE-650 CT PCMCIA card for notebook. **Price:** Rs 5,675 **Vendor:** Debug Computers Pvt Ltd

DE-802 2-port repeater designed to extend a network's backbone by joining the coaxial segments. **Price:** Rs 10,385 **Vendor:** Debug Computers Pvt Ltd **RQS#** 70424

DE-804 4-port repeater with both thin and thick cables. Each port is equipped with BNC and AUI **Price:** Rs 14,540 **Vendor:** Debug Computers Pvt Ltd **RQS#** 70425

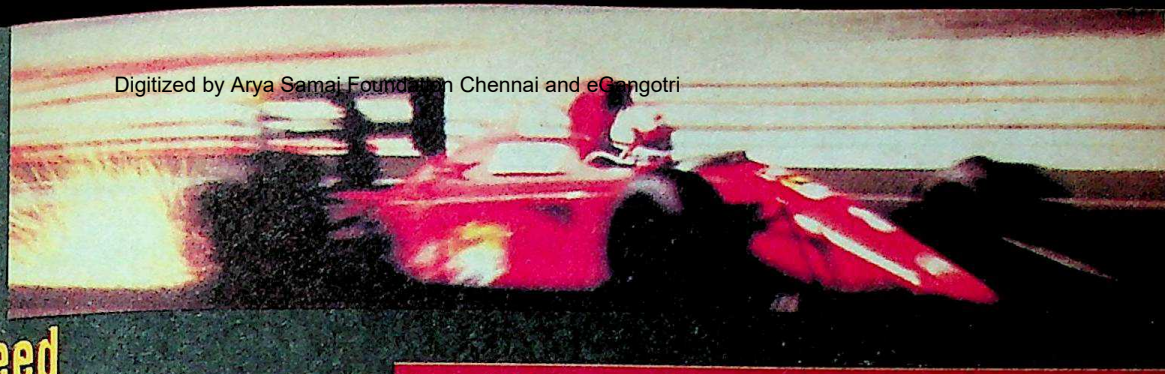
DE-805 TP 5-port portable 10-Base-T Ethernet hub designed for small workgroups. **Price:** Rs Debug Computers Pvt Ltd **RQS#** 70426

DE-809 TC Compact 8-port mini Ethernet hub. **Price:** Rs 7,615 **Vendor:** Debug Computers

DE-812 TP 12-port Ethernet unmanaged hub with auto-partition for each port. **Price:** Rs 13,840 Computers **RQS#** 70428

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Tire-smoking,
fire-spitting,
nitro-burning,
push-the-red-line speed

Breakthrough technology, breakneck speed

New Delphi 2.0

New Delphi 2.0 .The fastest, easiest way to prototype, build and deploy blazing fast, royalty-free Windows 95 and Windows NT applications. Delphi 2.0 is the only complete object-oriented development tool that combines the Rapid Application Development benefits of a component-based visual programming environment, the performance of an optimizing 32-bit native-code compiler, and scalable database programming tools.

Easily build sophisticated applications in a flash with the *New 32-bit Visual Component Library (VCL)* of more than 100 reusable components. *New Visual Form Inheritance* allows sharing of forms between applications. *New Object Repository* permits storing and reuse of components, data modules, and forms. *New Multi-Object Grid and enhanced DBGrid* and the *New 32-bit Borland Database Engine* lets you build scalable applications.

Powerful New professional programming tools include: the *New Open Tools API* for easy integration of custom development tools ; the New 32-bit ReportSmith, the *New 32-bit Local InterBase Server* for building SQL applications; *OLE Automation controller and server support;* a complete suite of *Windows 95 custom controls* and more! And your Delphi 2.0 applications scale seamlessly to Client/Server with native drivers to Oracle, Sybase, Interbase & MSQL server and ODBC support. Build high performance **Lotus Notes** applications and **Internet** applications with optional components. FREE Delphi 1.0 included for 16 bit Windows 3.X development.

Get the performance edge - get Delphi 2.0

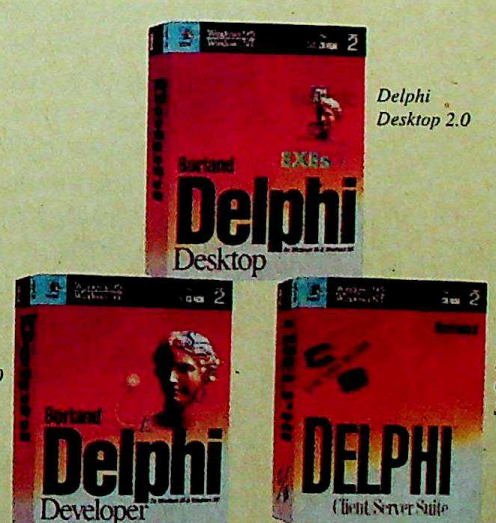
DELPHI FACTS

Features	Delphi	Power Builder	Visual Basic
Optimizing 32- bit native-code compiler	✓	-	-
Create standalone EXEs and DLLs	✓	-	-
Object-oriented language and environment	✓	-	-
Easily build new components and extend IDE	✓	-	-
Fully scalable client/server architecture	✓	✓	-
Fast learning curve for increased productivity	✓	-	✓
More than 100 reusable components	✓	-	-
Visual Form inheritance	✓	-	-
Database Explorer	✓	-	-
Data Dictionary	✓	-	-
Team Development with PVCS	✓	✓	-
SQL Monitor	✓	-	-
SQL Explorer	✓	-	-
Built in Database Server (Interbase 4.0 NT) for Client / Server Development	✓	-	-

Delphi 2.0 application outruns applications built in Visual Basic and Power Builder by 15 to 50 times, so you won't hit performance barriers.

"Delphi is the summation of everything the software development industry has learned during the first decade of the Windows era."

- Windows Tech Journal December 1, 1995.



Delphi Desktop 2.0

Delphi Developer 2.0

Delphi Client/Server Suite 2.0

Borland
Making Development Easier

K&D Corvo Direct

WIPRO
SOFTWARE PRODUCTS DIVISION
Better People. Better Solutions

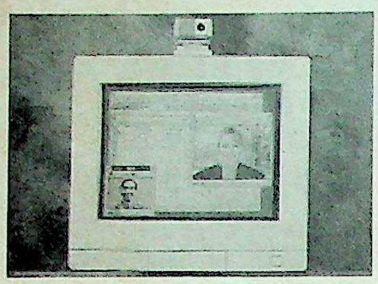
For exciting offers and more details on Delphi 2.0, please write to us at the following address. Or, call / fax at the numbers below.

Software Products Division, 40/1A, Lavelle Road, Bangalore - 560 001. **Phone: 2233534 / 2215010 / 2215014 Fax: 080-2218590.**
Wipro SPD Offices: • **Bangalore** Ph: 2226654 • **Mumbai** Ph: 6324886 • **Calcutta** Ph: 2496579 • **New Delhi** Ph: 6424126
• **Madras** Ph: 4996668 • **Secunderabad** Ph: 845196

Trademarks are the property of their respective owners.

CC-0. Mumukshu Bhawan Varanasi Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Video conferencing systems are beginning to be used for remote business meetings, saving time and money

HARDWARE
NETWORKING

DE-816 TP Ethernet Hub Rack mounted model with 16 UTP ,one AUI, one BNC port hub. Price: **Vendor:** Debug Computers **RQS#** 70429

DE-824 TP-UTP Hub 24-port UTP hub designed for mounting in standard 19" equipment racks; from front. **Price:** NA **Vendor:** Debug Computers **RQS#** 70430

DE-960 Print Server D-Link's print servers with 3-printer port, two parallel and one serial. Support and Unix. **Price:** NA **Vendor:** Debug Computers **RQS#** 70431

Dataradio Enables wireless connectivity, monitoring and control. Fully addressable and error corr UHF radio module. **Price:** Rs 250,000 **Vendor:** Gujarat Communications & Electronics Ltd

ESX-1320 12 port ethernet switch with RMON per port. It has 12 UTP ports and 1 BRIM port. Price: **Vendor:** PCS Industries Ltd **RQS#** 70433

Ethernet Cards PCI ethernet cards. **Price:** Rs 1,400..4,100 **Vendor:** HS' Technologies RQS#

Ethernet Terminal Server - TS3010 TCP/IP-based ethernet terminal server with 16 serial ports, speed. **Price:** Rs 75,000 **Vendor:** VXL Instruments **RQS#** 70435

FastNET 10-24 24 port ethernet switch with 24 UTP ports and 1 uplink port for optional dual 100 100 Base FX ports. **Price:** Rs 526,750 **Vendor:** PCS Industries Ltd **RQS#** 70436

FastNET 100-16TX 16 -port fast Ethernet switch with UTP ports; two ports can configured as m ports. **Price:** Rs 1,918,800 **Vendor:** PCS Industries Ltd **RQS#** 70437

Fax Office 1.0 Multiline Windows server for accessing documents and reports from a fax machine 240,000 **Vendor:** Amdale Software Technology Pvt Ltd **RQS#** 70438

Icom Product Range Wireless solutions for land, marine and air use. **Price:** NA **Vendor:** Electronics (India) Ltd. **RQS#** 70439

Intel EtherExpress PRO Intel's 10 mbps, 16 bit Ethernet adaptor with 32 kb buffer RAM, flash for UTP (10BaseT). **Price:** Rs 3,247 **Vendor:** Priya International Ltd **RQS#** 70440

Intel EtherExpress PRO/10 Plug-n-play compatible combo card, DMI ready. **Price:** Rs 3,735 International Ltd **RQS#** 70441

Intel EtherExpress PRO/100 Adapters PnP adapters with speeds of 10 or 100 mbps, auto-switch Rs 7,950 **Vendor:** Milestone Electronics **RQS#** 70442

Line Drivers LD3115 Eight-wire line driver which offers speeds up to 115 kbauds. **Price:** VXL Instruments **RQS#** 70443

MultiPlexers MD Series Provides significant line savings and sophisticated networking flexibi 36,000 **Vendor:** Datamarg Systems Pvt Ltd **RQS#** 70444

MultiRouter Multi Protocol Router for linking ethernet LANs over WANs. **Price:** Rs 75,000 (1 por (3 ports) **Vendor:** Multitech Software Systems India **RQS#** 70445

Net-Data Alarm & Remote Boot Switch Programmable network or data alarm routed to remote visual and audio alarms. **Price:** Rs 69,500 **Vendor:** Trans-Tel Communications RQS#

PA-EC-16D2K 16 port RS232 async module for up to 2,048 users per system. Offers connectivity feet. **Price:** Rs 33,300 **Vendor:** VXL Instruments **RQS#** 70447

Primergy-350 Server A machine with Pentium-133 (dual processor), 64 MB RAM, 4 GB HDD, monitor, 101 keyboard, Win95 preloaded. **Price:** Rs 481,050 **Vendor:** Siemens Nixdorf Systems **RQS#** 70448

Prioris HX & Prioris HX-MP Server Pentium 100 SMP server with 32 MB RAM, 512 kB cache multichannel PCI, SCSI and RAID configurations etc. **Price:** Rs 310,000 **Vendor:** Digital Equip Ltd **RQS#** 70449

Remote Access Servers Offers secured end-to-end optimization, multi-protocol dial-in/out and connectivity. **Price:** Rs 150,000 **Vendor:** Datamarg Systems Pvt Ltd **RQS#** 70450

SEHI-24 24-port stackable, manageable ethernet hub. It has 24 UTP ports and 2 EPIM ports. Price: **Vendor:** PCS Industries Ltd **RQS#** 70451

Server Manager Manage upto 256 PCs (even Sun and Mac) with one keyboard, monitor and mou Rs 89,500 **Vendor:** Trans-Tel Communications **RQS#** 70452

Sharevision PC 300 PC based data conferencing system with which you can simulataneously ta over telephone. **Price:** NA **Vendor:** Worldwide Technologies Ltd **RQS#** 70453

Single Mode Fiber Transceiver (Non Power) Has an AUT/IOBT connector for driving up to 25 powered device suited for remote locations. **Price:** Rs 69,500 **Vendor:** Trans-Tel Com **RQS#** 70454

Single/Multi Mode Fiber Converter Converts single mode to multi mode and vice versa. Price: **Vendor:** Trans-Tel Communications **RQS#** 70455

Spaceage Terminal Server UNIX compatible server which connects up to five independent te single host cable, and links two additional parallel printers. **Price:** Rs 14,500 **Vendor:** Computers Pvt Ltd **RQS#** 70456

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...h Master (Router/Bridge/Switch) High speed ATM 100BaseVG device with eight ports. **Price:** NA **Vendor:** Trans-Te Communications **RQS#** 70457

...ics 2613 Ethernet Hub Ethernet workgroup hub. **Price:** Rs 105,000 **Vendor:** 2001 Electronics **RQS#** 70458

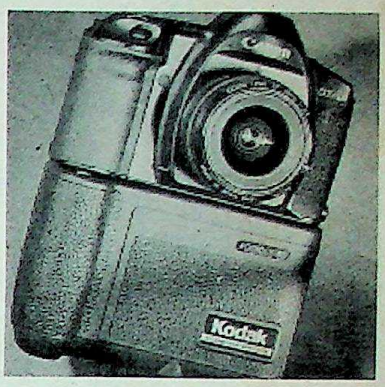
...ard 300/305 Comes with flash memory, supports many protocols, Ethernet and token ring based LANS. **Price:** Rs 145,000 **Vendor:** Motorola Ltd, **RQS#** 70459

...Standby Server 32 Standby solution for Novell Netware. **Price:** Rs 130,000 (ISA); 150,000 (EISA) **Vendor:** MicroLand **RQS#** 70460

...outer 6520, 6560 WAN routers integrating LAN, legacy and other traffic over point-to-point, multipoint, X.25 and frame relay links. **Price:** Rs 30,000..200,000 **Vendor:** Motorola Ltd, **RQS#** 70461

...Switch 100 High-efficiency Ethernet switch which gives maximum flexibility. **Price:** Rs 360,000 **Vendor:** Datamarg Systems Pvt Ltd **RQS#** 70462

... Acer Altos High end mission critical servers for workgroups and database applications. **Price:** Rs 400,000 **Vendor:** Wipro Acer **RQS#** 70463



Though digital cameras won't replace film-based photography, they're convenient for news photography

OTHERS

...therboard 386SX/40 MHz motherboards. **Price:** Rs 3,300 **Vendor:** Alpine Computers **RQS#** 70464

...2 Channel Video / VGA Splitters Shows VGA/SVGA or video image simultaneously on 4/8/16/32 ...nitors. **Price:** Rs 30,500 **Vendor:** Trans-Tel Communications **RQS#** 70465

...therboard Intel 486DX2, 486DX4 motherboards. **Price:** Rs 4,000 **Vendor:** Alpine Computers **RQS#** 70466

...0X2/66MHz CPU Comes with an enhanced high performance clock, doubled 32-bit microprocessor, 3-volt with 5-Volt tolerant I/O. **Price:** Rs 1,950 **Vendor:** Future Computers **RQS#** 70467

...0 Attendance recording system with optical reading of drop-type plastic cards. **Price:** Rs 10,000 **Vendor:** Access Computech Pvt Ltd **RQS#** 70468

...tation Extender Places your keyboard, monitor and mouse upto 200 feet away from the CPU. **Price:** Rs 46,500 **Vendor:** Trans-Tel Communications **RQS#** 70469

...Operated Switch Intelligent switch used to connect several serial RS232C devices with common port connected to PC/controller. **Price:** Rs 32,000 (4 Channels); 68,000 (16 channel); **Vendor:** San Telequip Pvt Ltd **RQS#** 70470

...ponents Floppy disk drives, hard disk drives, multimedia kits and CD-ROM drives from TEAC, Sony, Seagate and Aztech. **Price:** NA **Vendor:** Alpha Computers **RQS#** 70471

...uter Furniture Wide range of computer furniture. **Price:** NA **Vendor:** Kreators **RQS#** 70472

...ter Furniture Computer cabinets for computers, printers and mini-tower systems. **Price:** NA **Vendor:** Menivan Furniture **RQS#** 70473

...00A/445 Provides intelligent solution for data acquision and control applications. **Price:** $6,995 **Vendor:** Cranes Software International **RQS#** 70474

...Camera Back DCS-465 Digital camera with add-on for Hasselblad, Mamiya, Sinar and Horseman cameras. **Price:** Rs 1,404,415 **Vendor:** Kodak India **RQS#** 70475

...Camera DC-40 Portable aim and shoot digital camera. **Price:** Rs 51,800 **Vendor:** Wipro Infotech **RQS#** 70476

...Camera DCS-420 Professional digital camera with 36 bit image capture and upto 1.5 million pixels. **Price:** Rs 424,000 **Vendor:** Kodak India **RQS#** 70477

...Camera DCS-460 Supports virtually all functions of the NIKON N90 camera. **Price:** Rs 1,434,290 **Vendor:** Wipro Peripherals **RQS#** 70478

...Camera EOS - DCS 5 Supports virtually all functions of the CANON EOS-1N camera, including all metering modes. **Price:** Rs 592,160 **Vendor:** Kodak India Ltd **RQS#** 70479

...inter (GENIUS) Freehand drawing device; working area of 5inch x 5inch with a resolution of 1,016 lpi and an accuracy of +/- 0.01 inch. **Price:** Rs 5,730 **Vendor:** Compex Systems **RQS#** 70480

...y Attendance Recorder Attendance recording system that uses optical cards for identification. **Price:** Rs 24,990 **Vendor:** Verein International **RQS#** 70481

...mm Slide Recorder Well-integrated 35mm slide recorder. **Price:** Rs 195,000 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 70482

...z Pentium Pentium processors. **Price:** Rs 8,000..28,000 **Vendor:** Unique Business Solutions **RQS#** 70483

...n Adhesive transparent plastic cover protects keyboard from dust, spills and staples. **Price:** Rs 250 **Vendor:** Compucover East Pvt Ltd **RQS#** 70484

... Mouse Pad Wolf brand leather mouse pads. **Price:** Rs 175 **Vendor:** Magnum Enterprises **RQS#** 70485

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

From the creators of the award-winning CorelDRAW

AMAZING 32-BIT GRAPHICS POWER FOR EVERY

Corel Print House

Designed for Windows 95

CorelDRAW™ 6

Fast and Powerful 32-Bit Graphics!

Powerful!

- Designed exclusively for Microsoft® Windows® 95
- State-of-the-art 32-bit Corel graphics engine
- Power, precision and 32-bit speed
- Fully customizable user interface

Corel Graphics Pack

DATAPRO INFOWORLD LTD.
Tel: 212-638975
Fax: 212-634813

SVAM SOFTWARE
Tel: 11-3731844
Fax: 11-3723266

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ETSA bus frame grabber which integrates display and real-time DMA burst transfer to system memory. ...Price: Rs 385,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 70486

...24-pin, 900 cps printer with built-in bar codes, options of color printing, two tractors, LCD display, simultaneously active serial and parallel ports, and a 128 kB buffer. **Price:** Rs 2,100 **Vendor:** Alpine Computers **RQS#** 70487

Sketch 1212/1812D (GENIUS) Digitizer with working area of 12x12 inches or 18x12 inches with a resolution of 1,016 lpi and an accuracy of +/-0.01 inch. **Price:** Rs 12,500 **Vendor:** Compex Systems **RQS#** 70488

460 (VeriFone) Desktop, fully programmable terminal with built in card reader, modem and printer for transaction automation. **Price:** NA **Vendor:** HOPE **RQS#** 70489

Pad Digitizer A 3-button stylus pen that offers a resolution of 1,016 lines per inch. **Price:** Rs 14,500 (OP-1212), 30,000 (OP-1218) **Vendor:** Mehta CAD-CAM Systems **RQS#** 70490

TER Multilingual character generator. **Price:** Rs 29,900 **Vendor:** C-DAC **RQS#** 70491

Cases Powder coated sturdy cases with imported switches and display. **Price:** NA **Vendor:** Technofab **RQS#** 70492

Sharer KC201 Allows one PC to be accessed from two locations which may be up to 50 ms apart. **Price:** Rs 1,900 **Vendor:** Rook Technologies Pvt Ltd **RQS#** 70493

-912 Integrates the latest barcode scanning technolgy and RF data communication technologies into a portable tele-transaction computer. **Price:** Rs 120,000 **Vendor:** Super Bartronics Ltd **RQS#** 70494

ium Motherboard Available with Trither 256 kB Real Cache. **Price:** Rs 8,750 **Vendor:** Alpine Computers **RQS#** 70495

Lock Hardware lock for software protection, which plugs onto parallel port of PC and remains transparent to the operation of the printer. **Price:** Rs 572 **Vendor:** Numag Data Systems **RQS#** 70496

k Time and Attendance Access Control System Uses RS-485 communication for single/multiple drop. Can work offline/online, has six input sensors with two relays. **Price:** NA **Vendor:** Leaf Automation India Pvt Ltd **RQS#** 70497

Micro PLCs Programmable logic controller for process and machine control apps, which consists of CPU, power supply, analog and digital I/O motherboards and various operator interfaces. **Price:** NA **Vendor:** SPA Computers Ltd, **RQS#** 70498

... Cabinets for computers. **Price:** Rs 1,875 **Vendor:** Alpine Computers **RQS#** 70499

...or Ribbon Re-Inker Renews ribbons by reinking them. **Price:** Rs 5,194 **Vendor:** Windsor Graphics Pvt Ltd **RQS#** 70500

...20-22 Useful for engineers and scientists needing to characterize signal in the lab or field. **Price:** Rs 500,000 **Vendor:** Cranes Software International **RQS#** 70501

...Conditioner (SCXI) High performance signal conditioning and instrumentation system for PC-based data aquisition and control. **Price:** Rs 150,000 **Vendor:** AIMIL Sales & Agencies Pvt Ltd **RQS#** 70502

... Serial to Parallel Converter Allows serial output from any equipment such as EPABX to be connected to IBM PC compatible printer. **Price:** Rs 1,872 **Vendor:** Numag Data Systems **RQS#** 70503

...Star 64 64-bit graphics processor; 16.7 million colors in 800x600 resolution; full BIOS and register-level compatibility with VGA. **Price:** Rs 10,870 **Vendor:** Priya International Ltd **RQS#** 70504

...Cut D15 and D500 Small-format vinyl sign cutters. **Price:** NA **Vendor:** Digital Electronics Ltd **RQS#** 70505

...witch Helps in controlling the power input of any equipment through the serial port of a PC. **Price:** Rs 2750 **Vendor:** Numag Data Systems **RQS#** 70506

...are-Compact Workstation Includes CPU table, sliding lockable keyboard and printer shelf & mild steel frame and nuwud shelves with lamination. **Price:** Rs 3,250 **Vendor:** Crystal Computers **RQS#** 70507

POINTING DEVICES

...2 1000-lpi digitizer. Also includes AutoCAD templates and drivers. **Price:** Rs 9,750 **Vendor:** Pushpam Computers & Softwares **RQS#** 70511

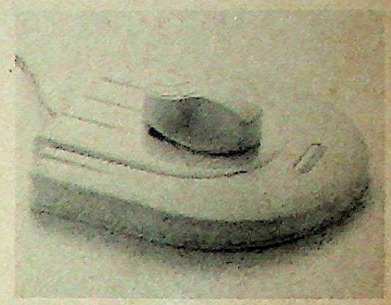
... 18x12 1000-lpi digitizer. **Price:** Rs 19,750 **Vendor:** Pushpam Computers & Softwares **RQS#** 70512

...roll (Genius) 5-button mouse. Works on Windows. High resolution of 400 dpi. **Price:** Rs 2,485 **Vendor:** Compex Systems **RQS#** 70513

...k (GENIUS) Mechanical mouse of 250 dpi for great track ball movement. **Price:** Rs 1,485 **Vendor:** Compex Systems **RQS#** 70514

...2 Trackball Device with 20 to 6,400 dpi variable resolution. **Price:** Rs 2,200 **Vendor:** Pushpam Computers & Softwares **RQS#** 70515

... Trackball Full size desktop trackball. Offers 20 to 6,400 dpi variable resolution. **Price:** Rs 1,750 **Vendor:** Pushpam Computers & Softwares **RQS#** 70516



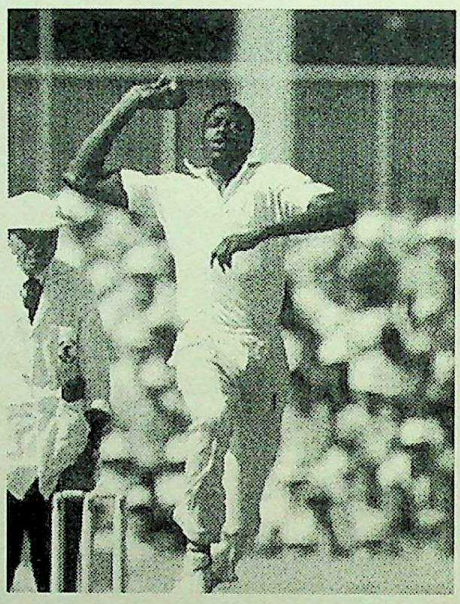
Pointing devices such as this Super Pointer can give finer control for specific applications

HARDWARE
POINTING DEVICES

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

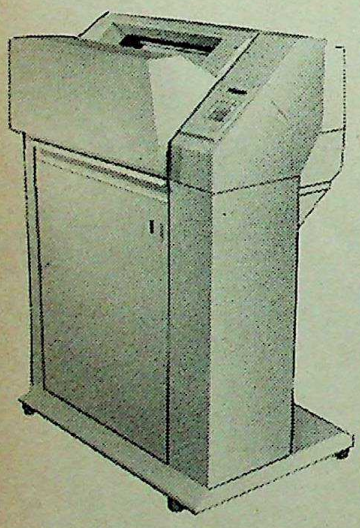
Its hard to find A CONSISTENTLY performing all-rounder



Like the Lipi

MT Line Matrix Computer Pri

WHEN IT COMES TO PRINTING, LIPI LINE PRINTERS ARE MORE OR LESS LIKE AN ALL–ROUNDER IN ITS OWN RIGHT. THINK OF ANY VARIED NEED, MULTILINGUAL, GRAPHICS OR BAR CODING, LIPI LINE MATRIX PRINTERS HAVE AN ANSWER. BESIDES, LIPI LINE PRINTERS OFFER MORE FEATURES THAN YOU CAN THINK OF.



LIPI MT 661-800 lpm printer

* **Proven reliability :** Thousands of installations in India against only a handful of competition.
* **Superior Print Quality :** Hard material used in print elements.
* **Superior Paper Transport :** 4 tractors for reliable and fast paper movement. And bi-directional paper motion for printing graphics. Competition has only 2 tractors.
* **Multiple Interface :** Simultaneously active serial and parallel shared interfaces with auto-switching. Competition requires selection from the front panel.
* **Ethernet :** In-line ethernet interface for networking.
* **Pepped-up speed :** 17,5 inch carriage of Lipi printers has 1.5 inch of added carriage width to accommodate large sized forms like two Cheques / Share Certificates printed abreast doubling the throughput as compared to competition. This gives the advantage of having printers for the price of one.
* **Multilingual :** Ease of connectivity for Multi Printing.
* **Reach :** Extensive All India sales & service from over 30 locations.

Lipi has Computer Printers every requirement from 300 to 2000 lpm in all technologies

BVQI ISO 9001

Lipi

LIPI DATA SYSTEMS LTD.

Head Office : 1, Mittal Chambers, Nariman Point, Mumbai - 400 021.
Ph : 91-22-2882960 / 61 / 62 / 63 / 64. Fax : 91-22-2873314.

LIPI EXCELS IN HIGH SPEED, HEAVY DUTY COMPUTER PRINTE

BRANCHES ● **Ahmedabad :** Ph.6569170 ● **Aurangabad :** Ph. 338540 ● **Bangalore :** Ph. 2272954 ● **Baroda :** Ph. 312941 ● **Belgaum :** Ph. 31366 ● **Bhopal** ● **Bhubaneshwar** ● **Calcutta :** Ph. 2429435 ● **Chandigarh :** Ph.43856 ● **Cochin :** Ph. 380935 ● **Coimbatore :** Ph. 436905 ● **Delhi :** Ph. 6467228 ● **Guwahati** ● **Hyderabad :** Ph. 815185 ● **Indore** ● **Jabalpur :** Ph. 27988 ● **Jaipur : Jamshedpur :** Ph. 488506 ● **Kanpur :** Ph. 271977 ● **Kolhapur :** Ph. 620515 ● **Lucknow** ● **Madras :** Ph. 8283804 ● **Madurai :** Ph. 543003 ● **Mangalore :** Ph. 437043 ● **Nagpur :** Ph. 523187 ● **Nasik :** Ph. 570462 ● **Patna :** Ph. 236479 ● **Panjim** ● **Pune :** Ph. 455729 ● **Surat :** Ph. 474184 ● **Thiruvananthapuram : Udaipur :** Ph. 521700 ● **Vijayawada** ● **Visakhapatnam :** Ph. 532996.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Lynx 30 & Lynx 66 Lynx mouse 66 is available in four different colors (red, black, white green) Lynx 30 and Lynx 66 packing comes with mouse pad. **Price:** Rs 500..750 **Vendor:** Pushpam Computers & Softwares **RQS#** 70517

Lynx 60 CS Cordless mouse with a working range up to 3 metres. **Price:** Rs 2,500 **Vendor:** Pushpam Computers & Softwares **RQS#** 70518

Lynx 95 Mouse Three button mouse. **Price:** Rs 800 **Vendor:** Pushpam Computers & Softwares **RQS#** 70519

Lynx Mice Models available: 25SS, 30SS, 66SS, 66SO. **Price:** Rs 2,555 **Vendor:** Pushpam Computers & Softwares **RQS#** 70520

MS Easyball Microsoft's ergonomically designed trackball. **Price:** $82 **Vendor:** Ultimedia System Associates **RQS#** 70521

MS Mouse Microsoft's mouse. **Price:** $55 **Vendor:** Ultimedia System Associates **RQS#** 70522

Mouse Ergonomically designed pointing device. **Price:** Rs 1,850 **Vendor:** Sonata Software Ltd **RQS#** 70523

Pinch 95 Gamepad Multi-directional gamepad. Offers left and right hand use. Can be attached to any game port. **Price:** Rs 550 **Vendor:** Pushpam Computers & Softwares **RQS#** 70524

Scorpious 101 Keys Keyboard 101-key quality membrane keyboard. **Price:** Rs 850 **Vendor:** Pushpam Computers & Softwares **RQS#** 70525

Scorpious KeyPen Multi-functional input device that combines pen-based computer input with a full 101/102 keyboard. **Price:** Rs 4,500 **Vendor:** Pushpam Computers & Softwares **RQS#** 70526

Summa Expression, Summa Flex Pressure-sensitive digital tablet for graphic artists and designers. **Price:** NA **Vendor:** Digital Electronics Ltd **RQS#** 70527

Super Pointer UFO 600 Optical device with better control of cursor than mouse or trackball. **Price:** Rs 2,500 **Vendor:** Industrial Adapters **RQS#** 70528

POWER CONDITIONING

1000VA UPS Line interactive UPS with 150...300V MOSFET-based AVR. Built-in batteries, short-circuit and overload protection. **Price:** NA **Vendor:** Quantum Power Systems **RQS#** 70529

1000VA UPS Line-interactive UPS, 150V..300V MOSFET-based AVR. Built-in batteries, zero-load cut off for power saving and short circuit and overload protection. **Price:** Rs 12,000 **Vendor:** Quantum Power Systems **RQS#** 70530

APC UPS LT-400 400 VA UPS with built-in AVR, brownout and sags corrector, EMI/RFI filters, etc. **Price:** Rs 9,950 **Vendor:** United Informatics Pvt Ltd **RQS#** 70531

APC UPS LT-600 600 VA UPS with built-in AVR, brownout and sags corrector, EMI/RFI filters, etc. **Price:** Rs 11,950 **Vendor:** United Informatics Pvt Ltd **RQS#** 70532

APC UPS LT-800 800 VA UPS with built-in AVR, brownout and sags corrector, EMI/RFI filters, etc **Price:** Rs 14,000 **Vendor:** United Informatics Pvt Ltd **RQS#** 70533

APM 200 SERIES ONLINE UPS 3...6 kVA online UPSs from Emerson. True sine-wave using double conversion (AC-DC-AC). Input power factor correction. **Price:** Rs 375,000 (6 kVA); 207,000 (3 kVA) **Vendor:** Tata-Liebert Ltd **RQS#** 70534

APM 300 SERIES 10..20 kVA online UPSs from Emerson. IGBT and double conversion technology. Microprocessor controlled eight-hour battery backup. **Price:** Rs 507,000 (10 kVA); 565,000 (20 kVA) **Vendor:** Tata-Liebert Ltd **RQS#** 70535

Back-UPS Pro PNP Series Performance power protection for advanced workstations including those using WinNT, Win95, OS/2. **Price:** Rs 11,100 **Vendor:** American Power Conversion **RQS#** 70536

Back-UPS Series Ideal for network nodes and standalone PCs. Available range: 250 VA to 1.25 kVA. **Price:** Rs 8,500 **Vendor:** American Power Conversion **RQS#** 70537

Backpro UPS PNP 280VA Line interactive, PnP compatible UPS. Brownout and over voltage correction. Bundles Powerchute Pro software. **Price:** Rs 12,000 **Vendor:** Compuage Electronics Pvt Ltd **RQS#** 70538

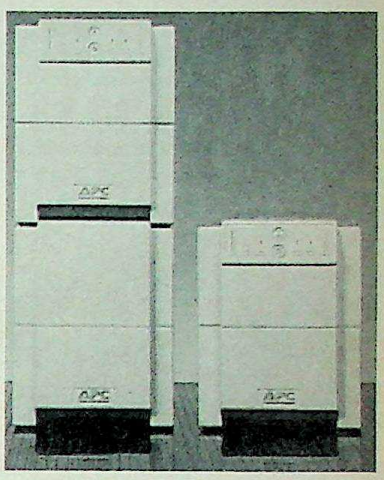
Matrix UPS Series Advanced modular power management for mission critical apps. **Price:** Rs 213,200 **Vendor:** American Power Conversion **RQS#** 70539

Smart-UPS Series High-performance protection for network servers, UNIX systems, minis and workstations. **Price:** Rs 18,100 **Vendor:** American Power Conversion **RQS#** 70540

Transhield Solid-state automatic voltage regulators with instantaneous voltage correction and minimal power-on switching delay. 500W models also available. **Price:** Rs 6,500 (1 kVA) **Vendor:** Adtech Power Systems **RQS#** 70541

Upspower 650 A UPS with quality output and fast switchover. **Price:** Rs 17,000 **Vendor:** Integrated Equipments **RQS#** 70542

Upspower 650 A UPS with quality output and fast switchover. **Price:** $17,000 **Vendor:** Integrated Equipments **RQS#** 70543



The UPS is now critical in Indian workplaces, thanks to erratic power supply

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

GIST series of Language Technology product

Total Computing Solutions worldwide

Honestly, we don't mind playing it all over again for you.
On the contrary, we must confess that we get really high on the applause, since it gives us the impetus to perform even b
meet your exacting demands in the complex area of
"LANGUAGE TECHNOLOGY".

But, as much as we cherish the adulation bestowed upon us, the CDAC GIST Team looks forward to challenges in the intriguingly complex and intrinsically beautiful world of **LIVING LANGUAGES**. Being pioneers and today's front runners in our area, we still have time for periodic introspections which enable us to achieve higher echelons.

If our primary application like **ALP, ISM & LEAP** have enthralled and enhanced your spectrum of performance and q
our latest application **GIST Shell**-An Indian Language Interface for MS-DOS applications
will surely be more enchanting.

All these, and other constantly upgradable unique and user friendly applications in areas of print-publication, data processing and video works orchestrated in perfectly harmonical blend of rich Indian heritage coupled with futuristic Techno-vision, will be events to watch for. We promise sheer symphony of the classiest order.

ALP
APEX LANGUAGE PROCESSOR
for Multilingual word-processor on DOS and UNIX

ISM
ISFOC SCRIPT MANAGER
for Windows and Macintosh for high quality publishing in Indian scripts.

LEAP
The Indian Language Word Processor on Windows

Gist SHELL
Indian Language Interface for MS-DOS applications

Gist Terminal
Multilingual Terminal for multi-user environment

Gist CARD
Multilingual PC add-on card

LIPS
LANGUAGE INDEPENDENT PROGRAMME SUBTITLES

Gist PalTer
Multilingual Colour Character Generator with PAL overlay capability

---

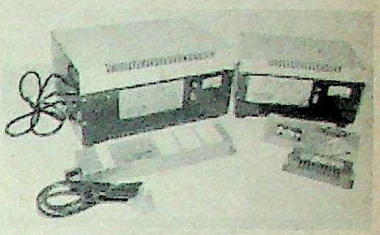
MPEG Camera™
MPEG-1 Video encoder

MEDIA Tycoon™
MPEG-2 Video decoder

MULTIPROMPTER
Prompting system for News Room

CDAC CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
Gist Group
Pune University Campus, Ganesh Khind Road, Pune 411 007.
Tel.: (0212) 357020, 352461/79/83/350484; Fax.: +91-212-357551, email: gist@cdac.ernet.in

Digitized by Arya Samaj Foundation Chennai and eGangotri



With declining UPS prices, other devices such as servos and CVTs have seen sharp price drops

Micropower Gold 1 kVA, 1.5 kVA and 2.1 kVA on-line UPSs from Emerson featuring PWM sinewave output, power auto overload sensing, RS-232 port for networks, double conversion technology. **Price:** Rs 57,500..113,000 **Vendor:** Tata Liebert Ltd **RQS#** 70544

Powerpower Select Range of line interactive Emerson UPSs with a wide input voltage range (163..264 V). Optional RS 232 and NMP card network. **Price:** Rs 33,950..87,836 **Vendor:** Tata-Liebert Ltd **RQS#** 70545

Regulates sensitive electronic equipment. Can handle a wide range of input voltage variations. **Price:** NA **Vendor:** Computer Factory (I) Ltd **RQS#** 70546

500 C A 500 VA offline with three outlets and optional external batteries. **Price:** Rs 9,900 **Vendor:** Albit Electronics **RQS#** 70547

500 C A 500 VA offline with three outlets and optional external batteries. **Price:** NA **Vendor:** Albit Electronics **RQS#** 70548

Controls One-UPS Low-cost 600 VA offline. **Price:** Rs 15,000 **Vendor:** Anand Control Systems **RQS#** 70549

Servo Stabilizer Servo stabilizer with solid-state control circuit. **Price:** NA **Vendor:** Aplab **RQS#** 70550

UPS With transistorized PWM technology to reduce harmonic distortion and increase dynamic stability. **Price:** Rs 38,000 (1 kVA); Rs 105,000 (5 kVA) **Vendor:** Aplab **RQS#** 70551

UPSs MOSFET based true online 1 kVA UPS with built-in batteries. **Price:** Rs 39,400 **Vendor:** Aplab **RQS#** 70552

matic Voltage Regulator Relay operated, with built in spike suppressor. **Price:** Rs 2,500 for 0.5 kva. **Vendor:** Digvijay Computer Lines **RQS#** 70553

Power SMPS (200W) and UPS (0.6 kVA) systems. **Price:** Rs 1,300 **Vendor:** Target Computers **RQS#** 70554

Power UPS Systems **Price:** Rs 11,500 **Vendor:** Sparrow Electronics **RQS#** 70555

Power UPS-500-A A desktop UPS largely aimed at single PC users. **Price:** Rs 15,605 **Vendor:** Bull Power systems **RQS#** 70556

Range of CVTs from 100...5,000 VA, input 175-270 V, output 220 V. **Price:** Rs 2,100 **Vendor:** Associated Industries Corporation **RQS#** 70557

Power Intelligent UPS 400 VA UPS with autostart and autostop function, battery level indicator and remote PC interface. **Price:** Rs 11,600 **Vendor:** Gold Strokes Computers Pvt Ltd **RQS#** 70558

pion UPS Off-line UPSs ranging form 400 VA to 1,250 VA, 30 minutes backup. **Price:** Rs 9,750 **Vendor:** Pace Computers **RQS#** 70559

pact Sleek 800 Economical, low-profile offline UPS. **Price:** Rs 13,000 **Vendor:** Computer Ware **RQS#** 70560

tant Voltage Terminal Constant voltage transformer from 15 kVA to 100 kVA. **Price:** NA **Vendor:** Mastech Power Equipment **RQS#** 70561

sec-1 On-line UPS with PWM inverter. **Price:** Rs 42,000 **Vendor:** Essens Power Conversion **RQS#** 70562

Power Available in range of 5...3,000 kVA. **Price:** Rs 300,000 (5 KVA) **Vendor:** Foresight Power Systems Ltd **RQS#** 70563

fe Internal power supply system; protects your system from accidental power failures. **Price:** Rs 4,000 **Vendor:** Software India Corporation **RQS#** 70564

Accure FA 40 IB A 400 VA UPS. **Price:** Rs 11,000 **Vendor:** Datex Electronics **RQS#** 70565

ys UPS systems. Available in 250..600 kVA range. **Price:** NA **Vendor:** Zener Controls **RQS#** 70566

l Voltage Conditioner Based on digital control techniques to provide corrected sinewave output. **Price:** Rs 2,450 **Vendor:** Anvi Electronic Systems **RQS#** 70567

Guard Protects hard disks, CD-ROM drives and floppy drives against voltage fluctuations. **Price:** NA **Vendor:** Esskay Corporation **RQS#** 70568

5000 MOSFET-based UPS with 2 X 12V batteries, 13 mins transfer time, backup-time 3 hours at maximum load of 5000 watts. **Price:** Rs 76,000 **Vendor:** Hi-Tech Info Systems **RQS#** 70569

ic Voltage Stabilizer Servo stabilized--from 1.0...10.0 kVA. **Price:** Rs 2,000 **Vendor:** Mastech Power Equipment **RQS#** 70570

VT Zero-maintenance, short-circuit proof, voltage stabilizer suitable for computers. **Price:** Rs 5,200..17,550 **Vendor:** Alpna Electronics **RQS#** 70571

n Sleek UPS MOSFET based offline UPS range ratings 250 VA..2 kVA, built-in 'SMF' batteries, built-in AVR, intelligent 'no-load' shut-off, optional software interface, extended backup. **Price:** Rs 7,500 (250 VA) **Vendor:** Microsys **RQS#** 70572

EC-500 A low-cost offline UPS. **Price:** Rs 11,250 **Vendor:** Hi-Rel Powernetics **RQS#** 70573

Smart 500 A compact line-interactive UPS. **Price:** Rs 18,853 **Vendor:** Hi-Rel Powernetics **RQS#** 70574

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Looking For Communication Professionals ?

Reach them through advertisements in

Voice & Data's

"Appointments" page—*the zero-wastage medium of the Communication Industry!*

The advertising rates for the Appointment ads are as follows:

Full page	—	17.5 cm x 23.5 cm Rs 28,000 (colour)/22,000 (B/W)
Double spread	—	37.0 cm x 23.5 cm Rs 52,000 (colour)/44,000 (B/W)
Half page (hrz)	—	17.5 cm x 11.5 cm Rs 14,000 (B/W)
Half page (vert)	—	8.5 cm x 21.5 cm Rs 14,000 (B/W)

Book your advertisement by contacting

DELHI
Vishal Bhatnagar, Panchsheel Enclave, New Delhi - 110 017
Tel.: 011-6433999/6435999/6471320, Fax: 011-6475765
Rachana Garga, Tel.: 011-6416315/6476664, Fax: 011-6411692

BANGALORE
D Bhaumik, Tel.: 080-2861511/2868238, Fax: 080-2862971

MUMBAI
Chandan Nair, Tel.: 022-6427910/6450050, Fax: 022-6403986

HYDERABAD
Krishna Rao, Tel.: 040-848121,Fax: 040-816960

MADRAS
Anil Kumar B, Tel.: 044-459498, Fax: 044-8252828

CALCUTTA
Partha P Banerjee, Tel.: 033-2471285, Fax: 033-2408423

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Isolation Transformers Provides protection from transients induced in line due to switching. Available from 500 VA to 20 kVA. **Price:** Rs 4,000 **Vendor:** Sharp Systems **RQS#** 70575

LDS Powersave A 500 VA UPS. Can take additional batteries. **Price:** Rs 11,800 **Vendor:** Futech Computers **RQS#** 70576

Milgut Stabilizer Servo-controlled voltage stabilizers with 750...500 kVA models. **Price:** Rs 3,120 **Vendor:** Sharp Systems **RQS#** 70577

Linear LU 300 300 VA offline, sub-compact UPS. Fits into two 5.25" drive bays. **Price:** Rs 12,000 **Vendor:** Linear and Digital Systems **RQS#** 70578

Lotus Servo Stabilizer Servo stabilizer with short circuit and overload protection, spike-suppressor and line-filter. Input range of 170..270 V. **Price:** Rs 2,860 (1 kVA Servo) **Vendor:** Lotus Autotron Pvt Ltd **RQS#** 70579

Lotus UPS UPS with in-built AVR input, imported SMF batteries, and MOSFET-based PWM technology. **Price:** Rs 8,000 **Vendor:** Lotus Autotron Pvt Ltd **RQS#** 70580

MAX 625 SLK A 625 VA offline UPS. Available in two models. **Price:** Rs 8,500 **Vendor:** Max Systems **RQS#** 70581

MS UPS MOSFET-based, fuseless UPS--isolated, transient suppressed, and stabilized--with pure sine-wave output. Operating range: 160..260 V. **Price:** Rs 20,000 (500 VA) to 100,000 (5 kVA) **Vendor:** Measurement Systems **RQS#** 70582

Magnumstay Servo Stabilisers Servo stabilizers of single and 3-phase systems. Six models available. **Price:** Rs 4,240 **Vendor:** Magnum Electric Co **RQS#** 70583

Magnumstay UPS 0.5 kVA Uninterruptible Power Supply. **Price:** NA **Vendor:** Magnum Electric Co **RQS#** 70584

Magnumstay UPS 1 kVA Uninterruptible Power Supply. **Price:** NA **Vendor:** Magnum Electric Co **RQS#** 70585

Magnumstay UPS 1.5 kVA Uninterruptible Power Supply. **Price:** NA **Vendor:** Magnum Electric Co **RQS#** 70586

Magnumstay UPS 2 kVA Uninterruptible Power Supply. **Price:** NA **Vendor:** Magnum Electric Co **RQS#** 70587

Magnumstay UPS 3 kVA Uninterruptible Power Supply. **Price:** NA **Vendor:** Magnum Electric Co **RQS#** 70588

Magnumstay UPS 4 kVA Uninterruptible Power Supply. **Price:** NA **Vendor:** Magnum Electric Co **RQS#** 70589

Magnumstay UPS 5 kVA Uninterruptible Power Supply. **Price:** Rs 94,100 **Vendor:** Magnum Electric Co **RQS#** 70590

Mastech Servo Stabilizer 3 kVA..5 kVA. **Price:** NA **Vendor:** Mastech Power Equipment **RQS#** 70591

Microtek Offline UPS Transfer time less than 3 ms. Working range: 170...270 VAC. **Price:** NA **Vendor:** Microtek Power Controls **RQS#** 70592

Nuzzle Internal power supply (500 VA) system for networks. Warns nodes, closes all open files, and puts down the server. **Price:** Rs 20,000 **Vendor:** Software India Corporation **RQS#** 70593

Numeric UPS Based on pulse-width modulation technology using MOSFET, FUJI, and IQBTs. **Price:** Rs 8,000 **Vendor:** Numeric Power Systems **RQS#** 70594

Onyx Pro 450 Line interactive UPS. Adjusts incoming voltage, charges batteries during brownouts. LAN port to allow unattended shutdown. **Price:** Rs 8,500 **Vendor:** Gujarat Hi-Rel **RQS#** 70595

Powerpower Servo Voltage Regulator 1 to 100 kVA voltage regulators. **Price:** Rs 3,500..120,000 **Vendor:** Suvik Electronics **RQS#** 70596

Prime System Microprocessor controlled UPS, with a warning system, 85% efficiency and a computer interface. **Price:** Rs 13,000 (350 VA) **Vendor:** Continental Power Systems **RQS#** 70597

Prime UPS Online UPS with 92% efficiency, capacity up to 15 kVA in single phase and 45 kVA in three phases. **Price:** Rs 45,000 **Vendor:** Futura Electronic Consultants **RQS#** 70598

Quadral Serial Isolators It protects the system from power surges and ground problems. **Price:** Rs 1,500 **Vendor:** VXL Instruments **RQS#** 70599

RPS Auto restart UPS with built-in 6V lead-acid batteries. Indicators for over and under charge, input 220V AC, output 12V, 6V selectable. **Price:** Rs 8,000 **Vendor:** Om Computer Center **RQS#** 70600

Select-250 VA Sleek, sub-compact off line UPS with two power outlets. **Price:** Rs 8,950 **Vendor:** UNI Marketing Associates **RQS#** 70601

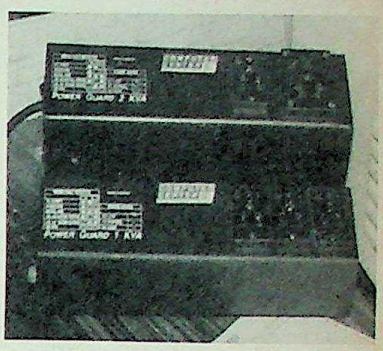
Sentinel UPS with built-in and external batteries. **Price:** Rs 8,000 (For 300 VA) **Vendor:** Foresight Power Systems Ltd **RQS#** 70602

Sentinel Plus 500 UPS UPS with PWM inverter with stepped sine-wave output. **Price:** Rs 11,800 **Vendor:** Foresight Power Systems **RQS#** 70603

Sine UPS systems. Available range: 3 kVA to 6 kVA. **Price:** NA **Vendor:** Zener Controls **RQS#** 70604

Spare Bank Portable rechargeable emergency power back up. **Price:** Rs 8,370 **Vendor:** Windsor Graphics Pvt Ltd **RQS#** 70605

Spare Conditioner Digitally controlled power conditioner, which provides clean and constant voltage. **Price:** Rs 2,200 (25 KVA); 2,780 (0-5 KVA); 3,200 (1 KVA). **Vendor:** Frontline Systems **RQS#** 70606

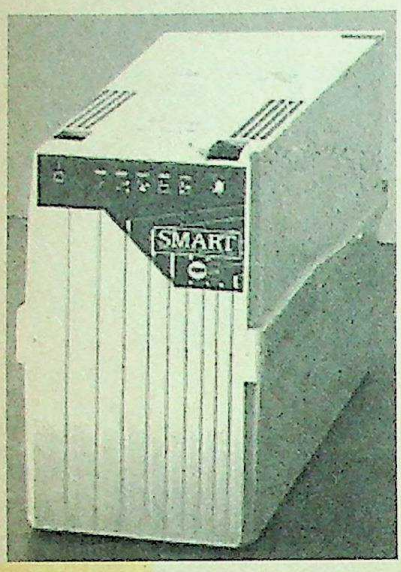


Spike suppressors can tackle those small but damaging spikes, in a convenient power socket strip

HARDWARE
POWER CONDITIONING

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



A line-interactive UPS can combine the efficiency of offline systems with several online advantages

HARDWARE
POWER CONDITIONING

Power Guard Replaces CVT Servo in the market. It has AC low/high voltage trip, wiring fault, surge suppressor. **Price:** Rs 1,350 **Vendor:** Computer Center **RQS#** 70607

Power Manager UPS Compact, intelligent 2 kVA UPS with trip-free operation, on-screen display of ... backup time. Built-in maintenance free batteries. **Price:** Rs 53,500 **Vendor:** Adtech Power ... **RQS#** 70608

PowerCom UPSs Off-line UPSs with built-in voltage stabilizers and filters. **Price:** Rs 9,000 (UPS 400 ... (UPS-250 Fax) **Vendor:** Roop Electronics & Allied Industries **RQS#** 70609

Powercom UPS 1200 VA UPS with 2 ms transfer time. **Price:** Rs 24,000 **Vendor:** Kunhar Peripherals ... **RQS#** 70610

Powercon UPS Off-line UPS with software compatibility. **Price:** Rs 24,500 **Vendor:** Essens Power Co ... **RQS#** 70611

Powergen-EPS System Backup available from 60 to 360 minutes. Available range: 250 VA..2 kVA, ... 7,300 **Vendor:** Sharp Systems **RQS#** 70612

Powerguard 1 kVA Product with a unique power watch circuit to protect your equipment against ... fluctuations, wiring defects, etc. **Price:** NA **Vendor:** Datatrac Computer Systems **RQS#** 70 ...

Powerlite Offline UPS 250 VA to 600 VA offline UPSs from Emerson with input over-voltage protec ... year warranty. **Price:** Rs 8,950 (250 VA); 13,050 (400 VA); 18,000 (600 VA) **Vendor:** Tata ... **RQS#** 70614

Profile UPS System Online UPSs. **Price:** NA **Vendor:** Target Marketing **RQS#** 70615

Qualit Offline UPS Based on pulse width modulation technology. Available range: 250 kVA to 3 ... Rs 6,000 **Vendor:** Qualitronics **RQS#** 70616

Quality Online UPS Based on pulse width modulation technology. Available range: 0.5 kVA to 5 ... Rs 14,500 **Vendor:** Qualitronics **RQS#** 70617

SM Range UPS systems. Available range: 5..20 kVA. **Price:** NA **Vendor:** Zener Controls **RQS#** 70 ...

SMPS/VIP-ST 230PS Switched Mode Power Supply. Input voltage is 194V-264V. Safety ... designed to meet UL, CSA Level 3 and TUV. **Price:** Rs 875 **Vendor:** Ranka Data Products **RQS#** ...

SPS 600 Compact UPSs ideal for single computers with peripherals. Low transfer time, built-in AVR ... efficiency. **Price:** Rs 14,200 **Vendor:** Adtech Power Systems **RQS#** 70620

ST Range UPS systems. Available range: 10 kVA to 200 kVA. **Price:** NA **Vendor:** Zener Controls **RQS#** ...

Smart UPS Line-interactive UPS with sine-wave output. Software configurable. **Price:** Rs 43,000 ... Essens Power Conversion **RQS#** 70622

Softree Spike suppressor. **Price:** Rs 350 **Vendor:** Digvijay Computer Lines **RQS#** 70623

Solid State Stabilizer Stabilizes 170-270V input to 220-240 V output. Auto-reset, correction speed ... second, spike suppressor and line filter. **Price:** Rs 2,200 (1 kVA) **Vendor:** Lotus Autotron Pvt ... 70624

Source-2 Online UPS System 0.5...5 kVA on-line UPSs with sine-wave. Suitable for computer ... control, telecom and industrial applications. **Price:** Rs 21,000..100,000 **Vendor:** Suvik Electron ... 70625

Spectrapower UPS MOSFET-based UPSs with SMF batteries and intelligent audio alarms. **Price:** ... **Vendor:** Servitronics **RQS#** 70626

Star Offline UPS with 250 VA, 750 VA and 1,000 VA models. **Price:** Rs 7,800 (500VA) **Vendor:** ... Electronics **RQS#** 70627

Static Voltage Stabilizer Solid-state stabilizer for line and load regulation. **Price:** Rs 20,500 **Vendor:** ... **RQS#** 70628

Switch Mode Power Supply (SMPS) 200W 200W power supply designed to meet the requirements of ... Pentium machines. **Price:** Rs 1,278 **Vendor:** Touchstone Electronics Pvt Ltd **RQS#** 70629

Switch Mode Power Supply (SMPS) 250W 250W power supply designed to meet the needs of Pentium ... machines and servers. **Price:** Rs 1,601 **Vendor:** Touchstone Electronics Pvt Ltd **RQS#** 70630

Switch Mode Power Supply 70W 70W power supply with an enclosure 62mm x 79mm x 170mm ... terminals and custom-built PCs. **Price:** Rs 1,050 **Vendor:** Touchstone Electronics Pvt Ltd **RQS#** ...

Synergy Smart Power 625 Line-interactive 625 VA UPS. **Price:** Rs 11,000 **Vendor:** Synergy Systems ... 70632

Sysguard Power strip with line fault indicator, spike suppressor and RFI/EMI filter. **Price:** Rs 350 ... Systems Creator **RQS#** 70633

The Guardian Sleek UPS Systems MOSFET based off-line UPS with ratings ranging from 250 VA ... built-in SMF batteries, built-in AVR, intelligent 'no-load ' shut-off, optional software interface ... backup. **Price:** Rs 7,500 (250 VA) **Vendor:** Microsys **RQS#** 70634

Tripp Lite BC 250 Sub-compact 250 VA off-line UPS. Simple design and operation. **Price:** Rs 8,200 ... Prime Source Technology **RQS#** 70635

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DUMMIES.

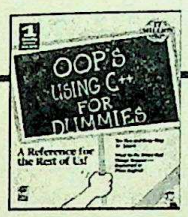
Programming made Pleasurable not Problematic!

Sometimes all the caffine in the world can't help the programmer stay awake learning a new language or technique. Lucky for them — Dummies ***programming books*** *take complex technology to a straight forward level. All programmers catching up on a language or beginners testing the waters will master the essential skills in minimal time.*

C for Dummies

Teaches the essentials of C programming in a unique, entertaining style. Programming Deals with dreaded maths, graphically speaking, and common beginner mistakes and their avoidance.

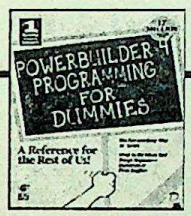
552 Page • Price: Rs. 150



OOP's Using C++ for Dummies

Written for C programmers migrating to C++. Covers Borland C++, Visual C++ and Turbo C++.

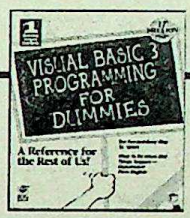
424 Page • Price: Rs. 135



Power Builder 4 Programming for Dummies

Explains everything about application development, from using the interface to making menus & windows etc., to scripting with Power Builder painter.

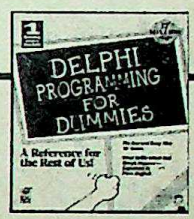
400 Page • Price: Rs. 175



Visual Basic 3 Programming for Dummies

Friendly, non-threatening reference for Visual Basic, the programming language for non-programmers. Learn to program in Visual Basic right away!

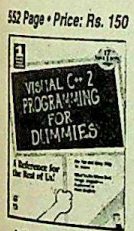
400 Page • Price: Rs. 135



Delphi Programming for Dummies

Teaches how to create and run programs and applications in Delphi. Provides clear explanation of forms, properties, and programming concepts.

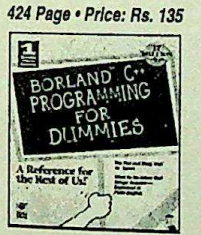
400 Page • Price: Rs. 150



Visual C++ 2 Programming for Dummies

Provides opportunity for non-programmers and programmers who have never done visual programming to learn windows programming the easy way.

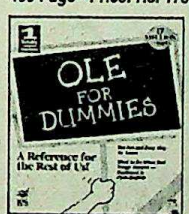
500 Page • Price: Rs. 150



Borland C++ Programming for Dummies

Learn to program quickly and painlessly even if you don't have the time or inclination to learn everything about Borland C++.

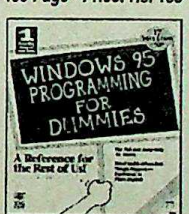
800 Page • Price: Rs. 345



OLE for Dummies

This fun and easy guide teaches you object linking and embedding skills (which help in improving functionality in applications) without getting hung up in C++ source code.

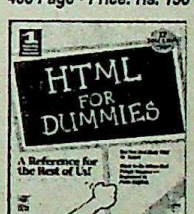
400 Page • Price: Rs. 150



Windows 95 Programming for Dummies

Shows new programmers and DOS programmers how to jump to programming for Windows. Covers all the topics of Windows programming – callbacks, messages, memory, multitasking.

400 Page • Price: Rs. 150



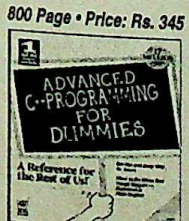
HTML for Dummies

Helps you explore features and concepts of latest known HTML. Explains how it works and how to incorporate it in your application including Windows. Provides ready-to-use web page templates and tools. Includes a disk with Source Code.

400 Page • Price: Rs. 225 (with disk)

Advanced Visual Basic 4 Programming for Dummies

400 Page • Price: Rs. 225 (with disk)

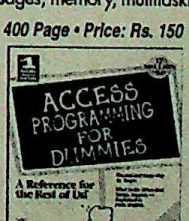


Advanced C++ Programming for Dummies

350 Page • Price: Rs. 225 (with disk)

dBase 5 for Windows Programming for Dummies

400 Page • Price: Rs. 135



Access Programming for Dummies

350 Page • Price: Rs. 150

Visual Basic 4 Programming for Dummies

400 Page • Price: Rs. 150

DUMM AD APRIL/96/SK

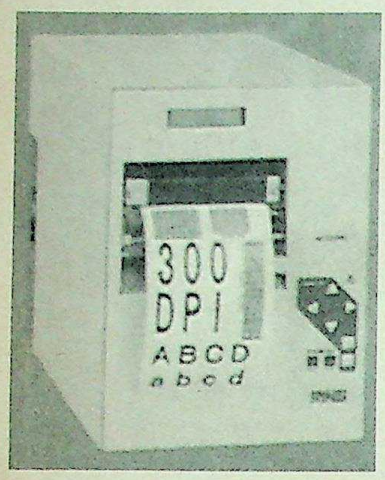
Published in Collaboration with IDG BOOKS WORLDWIDE

Comdex computer publishing
A division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002, Ph: 3268292-93 • Fax: 011-3280567
Branches: Bangalore Ph: 2234025 Fax: 2240209 • Bombay Ph: 2010941 Fax: 2053387 • Patna Ph: 653644

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



With bar-codes entering warehouses to saree shops, barcode printers are likely to be in demand

HARDWARE
PRINTERS: BARCODE

Tripp Lite Omni 675 A tower model with three power outlets. **Price:** Rs 12,000 **Vendor:** Technology **RQS#** 70636

Tripp Lite Omni Pro INT 450 A 450 VA off-line in a mid-sized tower. Three power outlets. **Price:** **Vendor:** Prime Source Technology **RQS#** 70637

UPS 625 VA off-line desktop model with in-built SMF batteries. Power switch and two LEDs on the Standard three-pin socket for output, AC and DC, fuse protection. **Price:** Rs 12,500 Electronics Pvt Ltd **RQS#** 70638

UPS Systems 1 kVA...5 kVA off-line UPS, 500 VA. 600 VA, 1 kVA, 1,200 VA AVRs. **Price:** NA **Vendor:** Power Systems Ltd **RQS#** 70639

UPS-1KVA EPROM-based UPS with built-in maintenance-free battery. Gives full 30 minutes on **Price:** Rs 57,000 **Vendor:** Technic Electronic Corpn **RQS#** 70640

UPS-500 VA AG-Tek on-line UPS systems 2.0 57,600 2.5 68,500. **Price:** Rs 17,280..42,400 **Vendor:** Protection Devices **RQS#** 70641

Ultra Miniature Servo Stabilizer Stabilizer with dimension 195 mm depth, 180 mm width, 160 mm 1 kVA capacity to serve one PC setup. **Price:** Rs 2,200 **Vendor:** Technic Electronic Corpn **RQS#** 70642

Uninterrupted Power Supply - AEGIS 1K Online UPS, 1 kVA. **Price:** Rs 44,995 **Vendor:** TVS **RQS#** 70643

Uninterrupted Power Supply - AEGIS 3K On line UPS of 3KVA rating, protects against wide power-line problems. **Price:** Rs 99,995 **Vendor:** TVS Electronics **RQS#** 70644

Uninterrupted Power Supply - AEGIS 5K Online UPS of 5 kVA rating, protects against wide line problems. **Price:** Rs 189,995 **Vendor:** TVS Electronics **RQS#** 70645

Uninterrupted Power Supply System UPS with constant voltage transformer. **Price:** Rs 17,5 Mastech Power Equipment **RQS#** 70646

Unistab Voltage Stabilizer Quick, efficient and compatible with almost all kinds of computers **Vendor:** Pushkar Appliances **RQS#** 70647

Waveforms UPS Rugged and reliable. Engineered for stable performance. **Price:** Rs 8,000..34,0 Waveforms **RQS#** 70648

PRINTERS: BARCODE

Barcode Printer Slippy 4 x 8 inches, thermal transfer printer model. **Price:** Rs 118,755 **Vendor:** Impex **RQS#** 70649

RING JADE 4012PM 300 dpi/11.8 dots resolution print speed 12 inches per sec, 4.25 inches print 4...12 inches print area. Allows serial and parallel communications and graphic printing. **Vendor:** Leaf Automation India Pvt Ltd **RQS#** 70650

PRINTERS: CONSUMABLES

Printer ribbons for DMP and Inkjet Printer inks suitable for all types of inkjet printers, computer in all shades with long life and high mileage. **Price:** NA **Vendor:** Radiant Industrial & **RQS#** 70651

Ribbon for DFX 5000/5000+/8000 Ribbon for 9-pin, 136-Column, high-speed printer: 12.7 mm 5.5 **Price:** Rs 595 **Vendor:** Wipro Ltd **RQS#** 70652

Ribbon for Epson LQ-100 DMP Ribbon for the 24 pin, 80 column Epson LQ-100 printer. **Price:** Rs 16 Wipro Ltd **RQS#** 70653

Computer Printer Ribbon Printer ribbons. **Price:** Rs 100..1,500 **Vendor:** Amadeus Enterprises **RQS**

Ribbon for Data Products B300/600 For Lipi Data Products' high speed printers B 300/600. **Price** **Vendor:** Wipro Ltd **RQS#** 70655

Ribbon for EX 1000 & Equivalent Models Ribbon for the 9 pin, 132 column Wipro Epson EX equivalent models 12.7 mm, 10 m. **Price:** Rs 135 **Vendor:** Wipro Ltd **RQS#** 70656

Ribbon for FX 105 & Equivalent Products Ribbon for the 9-pin, 132-column Wipro-Epson FX equivalent models, 12.7 mm 18 m. **Price:** Rs 145 **Vendor:** Wipro Ltd **RQS#** 70657

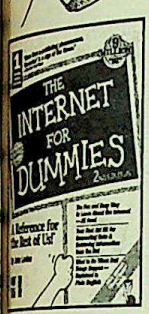
Ribbon for LX-800 & Equivalent Printers Ribbon for 9-pin, 80-column Wipro-Epson LX800 and printers, 12-7 mm, 15 M. **Price:** Rs 135 **Vendor:** Wipro Ltd **RQS#** 70658

Ribbon for Wipro LQ1050 - Printer Ribbon for 24-pin, 136-column, Wipro Epson LQ1050 and matrix printers 12-7 mm, 18 m. **Price:** Rs 175 **Vendor:** Wipro Ltd **RQS#** 70659

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SURF the NET the FUN & EASY WAY!



THE INTERNET FOR DUMMIES

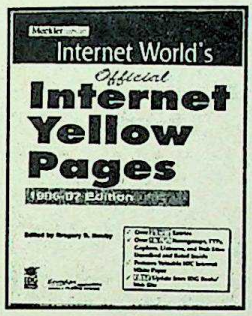
Goes into the details of the Internet, existing connectivity options, getting connected, and information you can get. Offers the basics of e-mail, mailing lists, and network news, ways of browsing what's available on the Net.

Pages: 384 • Price Rs. 150

FREE STUFF FROM THE INTERNET

Good news for bargain hunters and free-loaders. Jam-packed with incredible free offers from Microsoft, NASA, Uncle Sam, Apple Computer, and hundreds more. Amazing free stuff for your home, business, computer, lifestyle, hobbies, and more.

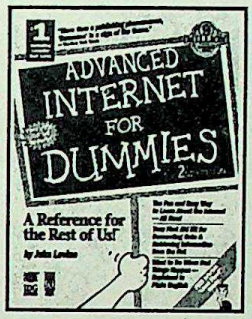
Pages: 459 • Price Rs. 195



OFFICIAL INTERNET YELLOW PAGES

A one-stop Net resource with integrated print directory, with listings and description in 1200 subject areas. Features include FTP sites for retrieving software from a remote site for downloading to your computer.

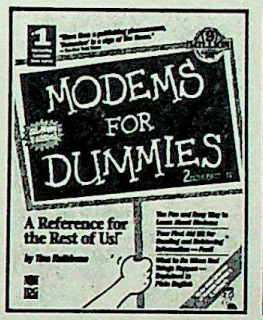
Pages: 700 • Price Rs. 450



ADVANCED INTERNET FOR DUMMIES

Companion to The Internet For Dummies. Covers tips and tricks that the earlier edition had left out. Has stuff on getting the most out of the Internet with the least effort and more on tools such as Gopher, Archie, WAIS, and World Wide Web.

Pages: 390 • Price Rs. 150



MODEMS FOR DUMMIES

Shows DOS, Windows, and Mac users how to choose, install, and use modems and modem software with lots of tips for Internet access. Maximize modem benefits like e-mail, downloading and sending files, and faxing.

Pages: 463 • Price Rs. 150

FREE $TUFF FROM THE WORLD WIDE WEB

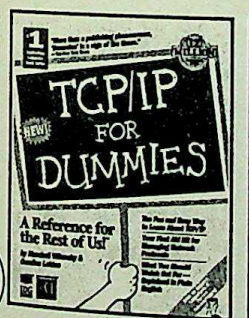
Jam-packed with incredible free goodies from Microsoft, NASA, Uncle Sam, Apple Computer, and hundreds more for your home, business, computer, lifestyle, hobbies, health, and more. Includes an introduction to the World Wide Web.

Pages: 475 • Price Rs. 195

FOUNDATIONS OF WWW PROGRAMMING WITH HTML & CGI

Create high-quality, interactive Web services that support complex user interactions. Includes CGI development, tips on location-dependent responses from the Internet including WAIS & index-searching tools, forms & activity maps, image tools, & Web-ifying tools.

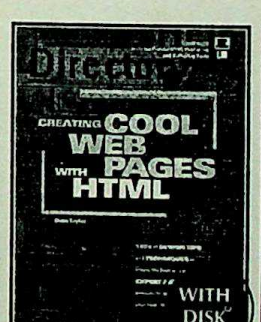
Pages: 648 • Price Rs. 450



TCP/IP FOR DUMMIES

First-aid kit for managing network protocols. Explains various concepts and intricacies of TCP/IP in an easy manner. Covers protocols for networks connected to the Internet and dis-connected networks. Delves into bridges, routers, gateways and routing policy.

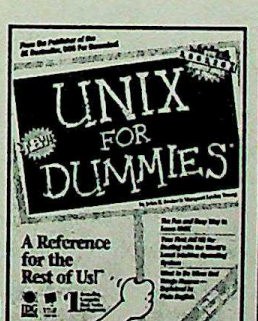
Pages: 400 • Price Rs. 175



CREATING COOL WEB PAGES WITH HTML

Provides step-by-step introduction to HTML with real-world HTML examples, important design principles, and marketing tips on creating cool Web pages that get noticed.

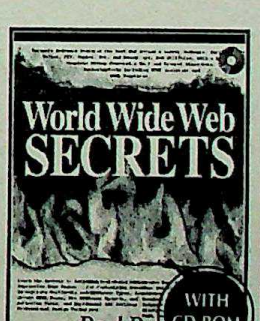
Pages: 288 • Price Rs. 195



UNIX FOR DUMMIES

Covers all major versions, including Linux, Berkley UNIX, System V, System V Release 4, SunOS, and Solaris. Finally, a friendly guide for this hostile system. Become a UNIX wizard in no time.

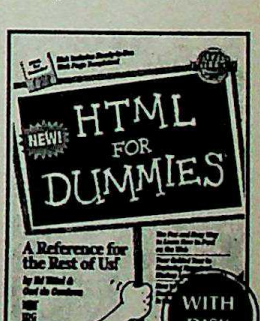
Pages: 368 • Price Rs. 135



WORLD WIDE WEB SECRETS

The best Web access and server software plus utilities to untangle the Web on CD like NetCruiser, America Online, Prodigy & Windows httpd. Covers CGI and Windows 95. Get expert World Wide Web Tips and Techniques. Find the most recent HTML authoring tools.

Pages: 710 • Price Rs. 295 (Book only) Rs. 450 (with CD-ROM



HTML FOR DUMMIES

Teaches the fundamentals and how to master HTML commands and syntax to build Web pages and develop a Net presence. Use HTML effectively with text, images, video and audio and give your pages impact and flair.

Pages: 444 • Price Rs. 225

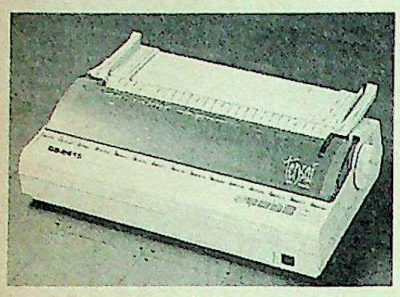
Published in collaboration with **IDG Books Worldwide, USA**

Comdex computer publishing
a division of PUSTAK MAHAL

10-B, Netaji Subhash Marg, New Delhi-110002 Phones: 3268292-93, 3279900 • Fax: 91-3260518
Branches: • BANGALORE-560 027 Ph: 2234025 Fax: 080-2240209 • BOMBAY-400 002 Ph: 2010941
Fax: 022-2053387 • PATNA-800 004 Ph: 653644

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Dot matrix printers still survive, for invoicing and other multipart printing

Thermal Transfer Barcode Ink Ribbons High density, heat resistant printing ribbons, stickers. **Vendor:** Leaf Automation India Pvt Ltd **RQS#** 70660

Wipro Ink Cartridge for Wipro Genius Writer IJ40 Monochrome ink cartridge for Wipro Genius Writer IJC080 and BJC-70. **Price:** Rs 880 (mono) **Vendor:** Wipro Ltd **RQS#** 70661

Wipro Ink Cartridge for Wipro Genius Writer IJC-51 Monochrome ink cartridge for Wipro Genius Writer C-5100, Canon BJC-4100 and BJC-4000. **Price:** Rs 1,800 (mono); 1,015 (color) **Vendor:** **RQS#** 70662

Wipro Ink Cartridge for Wipro Genius Writer IJC-80 Monochrome and color cartridges for Wipro Genius Writer IJC-80 and Canon BJC-70. **Price:** Rs 650 (mono); 1,100 (color) **Vendor:** Wipro Ltd

Wipro Ink Cartridge for Wipro GeniusWriter IJC-310 Monochrome and color cartridges for Wipro Genius Writer IJC-310 and Canon BJC-210S. **Price:** Rs 1,700 (mono); 1,900 (color) **Vendor:** Wipro Ltd

PRINTERS: DOT MATRIX

BP-5780 II 18-pin, 136-column, 780 cps high-speed printer. **Price:** Rs 83,000 **Vendor:** Cap Computers And Peripherals **RQS#** 70665

BP-7800 II 24-pin, 136-column, 780 cps, high-speed printer with 10 LQ fonts, 48 kB buffer, bar code support. **Price:** Rs 95,000 **Vendor:** Cap Computers And Peripherals **RQS#** 70666

Calligra Q10 24-pin, 80 column, 216 cps, quiet dot matrix printer. **Price:** Rs 15,995 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70667

Calligra Q20 24-pin, 80 column, 240 cps, quiet dot matrix printer. **Price:** Rs 17,995 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70668

DPC 8524 24 pin, 780 cps, with built-in bar codes, zoom feature, and capability to handle nine part forms. **Price:** Rs 95,000 **Vendor:** Lipi Data Systems Ltd **RQS#** 70669

Epson DFX 5000 9 pin, 136 columns, 560 cps speed; built-in parallel and serial interface; front and rear paper paths; network connectivity and optional pull tractor. **Price:** Rs 99,000 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70670

Epson DFX 8000 9 pin (parallel) and 136 columns. 1066 cps speed; front and rear paper paths; optional tractor. **Price:** Rs 160,000 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70671

Epson LQ-100 24 pin, 80 column, 200 cps with built in scalable fonts and 360 x 360 graphics capability for SOHO users. **Price:** Rs 12,100 **Vendor:** Wipro Peripherals **RQS#** 70672

Epson LQ-100 24 pin, 80 column; 200 cps speed auto sheet feeder; optional tractor unit. **Price:** **Vendor:** Redington (India) Pvt Ltd **RQS#** 70673

Epson LQ-1070+ 24 pin, 132 column, 269 cps with 1 legal character set, 14 international character sets, 8 character code tables. **Price:** Rs 26,650 **Vendor:** Wipro Peripherals **RQS#** 70674

Epson LQ-1070+ 24 pin, 136 columns and 269 cps speed; three paper paths; optional single bin feeder. **Price:** Rs 24,000 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70675

Epson LQ-300 24 pin, 80 column, 240 cps with multiple scaleable fonts and color capability. **Price:** **Vendor:** Wipro Peripherals **RQS#** 70676

Epson LQ-300 24 pin, 80 columns; speed of 240 cps; built-in parallel and serial interface; color capability. **Price:** Rs 13,900 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70677

Epson LX-1050+ 9 pin, 132 column 240 cps with 6 international character tables, and a 200 million character wire printhead life. **Price:** Rs 17,100 **Vendor:** Wipro Peripherals **RQS#** 70678

Epson LX-1050+ 9 pin 136 column printer with a speed of 240 cps and an option al cut-sheet feeder. **Price:** Rs 15,500 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70679

Epson LX-300 9 pin, 80 column, 264 cps. **Price:** Rs 9,800 **Vendor:** Wipro Peripherals **RQS#** 70680

Epson LX-300 9 pin 80 column printer with 246 cps speed; parallel and serial interface; optional color. **Price:** Rs 9,500 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70681

FB-840 24-pin bi-directional wide-carriage 840 cps, 60 lines per second printer. **Price:** Rs 120,000 **Vendor:** Cap Computers And Peripherals **RQS#** 70682

GS-150 24-pin, 136-column, 300 cps printers. **Price:** Rs 18,500 **Vendor:** Cap Computers And Peripherals **RQS#** 70683

GS-2415 9-pin, 136 column, 300 cps printer with 17.5 kB buffer. **Price:** Rs 12,000 **Vendor:** Cap Computers And Peripherals **RQS#** 70684

HD 5000 18-pin, 136-column, 540 cps, heavy-duty, high-speed printer. **Price:** Rs 93,995 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70685

HD 6045 24-pin, 136-column, 450 cps, heavy-duty dot matrix printer. **Price:** Rs 33,995 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70686

HD 6595 9-pin, 136-column, 380-cps printer. **Price:** Rs 26,995 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70687

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...Paragon 36 9-pin, 32 column, 197 cps printer. **Price:** Rs 15,950 **Vendor:** Larsen & Toubro Ltd **RQS#** ...0688

...Scribe 36 9-pin, 32 column, 160 cps printer. **Price:** Rs 12,950 **Vendor:** Larsen & Toubro Ltd **RQS#** 70689

...mark 2391+ 136-column, 24-pin, 252 cps printer with a straight paper path, 32 kB buffer and resident fonts. **Price:** Rs 27,000 **Vendor:** Alphabetics Pvt Ltd **RQS#** 70690

...145 PLUS 9 pin, 136 column, 240 cps ideally suited for on line business application. **Price:** Rs 13,995 **Vendor:** TVS Electronics **RQS#** 70691

...145 Plus 9-pin, 132-column, 240 cps printer. **Price:** Rs 14,495 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70692

...155/255 9-pin, 132-column, 300-cps printer. **Price:** Rs 16,995 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70693

...240 - 9 PIN 80 COL. DMP 9 pin, 80 column, 240 cps printer with 2 draft and 2 NLQ fonts, a convertible push pull tractor and 13 kB buffer. **Price:** Rs 8,995 **Vendor:** TVS Electronics **RQS#** 70694

...255 Business printer with a print head life of 200 million characters. **Price:** Rs 17,995 **Vendor:** TVS Electronics **RQS#** 70695

DOT MATRIX PRINTER P-1200 24 pin, 80 column, 192 cps. **Price:** Rs 11,500 **Vendor:** Digital World India Ltd **RQS#** 70696

DOT MATRIX PRINTER P-3900 24 pin, 136 column, 216 cps with color kit option, and an optional cut sheet feeder. **Price:** Rs 22,000 **Vendor:** Digital World India Ltd **RQS#** 70697

Pinwriter P1300 24-pin DMP with several fonts and auto-load, auto-park. **Price:** Rs 15,500 **Vendor:** Digital World India **RQS#** 70698

Pinwriter P2000 24 pin staggered, 80 column, 200 cps, 360 x 360 dpi with PnP interface, selectable fonts, etc. **Price:** NA **Vendor:** Digital World India Ltd **RQS#** 70699

Pinwriter P7300 24 Pin, 136-column, 300 cps, dual emulation. color kit option optional LCD operation panel scaleable fonts. **Price:** Rs 30,000 **Vendor:** Digital World India Ltd **RQS#** 70700

Pinwriter P8000 24-Pin DMP 24 pin staggered, true 360 X 360 dpi, 136 column, 413 cps with colorkit option, dual emulation, NEC level 2, IBM X24/X24E. **Price:** NA **Vendor:** Digital World India Ltd **RQS#** 70701

...130 9-pin, 80-column, 175 cps dot matrix printer. **Price:** Rs 7,500 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70702

...230 24-pin, 80-column, 192 cps, with diamond-shaped long-life printhead. **Price:** Rs 10,495 **Vendor:** TVS Electronics **RQS#** 70703

...350XL Rugged printer for high-speed and heavy-duty applications, can print bar codes. **Price:** Rs 1,35,000 **Vendor:** Transmatic Systems Ltd **RQS#** 70704

Plotter Buffers Buffers printing/plotting, freeing up computer and operator sooner. **Price:** NA **Vendor:** Milestone Electronics **RQS#** 70705

...24 pin 126 column DMP with a 200-million character printhead life and a two year warranty. **Price:** Rs 22,495 **Vendor:** TVS Electronics **RQS#** 70706

...300 9-pin, 80-column, 300 cps printer with a 21 kB buffer, five NLQ fonts, paper park and auto loading. **Price:** Rs 8,750 **Vendor:** Cap Computers And Peripherals **RQS#** 70707

...GS 2415 9-pin, 132-column with 300 cps speed. **Price:** Rs 15,995 **Vendor:** Godrej & Boyce Mfg Co ...415 **RQS#** 70708

PRINTERS: INKJET

...etprinter 1020 3 ppm (monochrome), 2-4 ppm color, 600 x 300 dpi both in monochrome and color. Prints ...om DOS apps running under Windows. **Price:** Rs 21,000 **Vendor:** Alphabetics Pvt Ltd **RQS#** 70709

...etprinter 4079 plus 1.7 ppm monochrome, 1 ppm color, 360 dpi . **Price:** Rs 175,000 **Vendor:** ...phabetics Pvt Ltd **RQS#** 70710

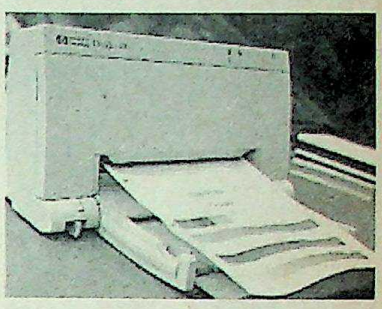
...Stylus 1000 360 x 360 dpi resolution; A3 size paper input; optional Bitronics parallel port. **Price:** Rs ...24,900 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70711

...Stylus 820 720x720 dpi resolution; built-in cut sheet feeder; optional color upgrade kit; Bitronics parallel ...nterface. **Price:** Rs 11,900 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70712

...Stylus Color II 720x720 dpi resolution; built-in cut sheet feeder, Bitronics and Mac serial port. **Price:** ...Rs 25,900 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70713

...Stylus Color IIs 720x720 dpi resolution; built-in cut sheet feeder ; Bitronics parallel port. **Price:** Rs ...35,900 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70714

...Stylus Pro Color inkjet printer with built-in cut sheet feeder; Bitronics and Mac serial port standard; ...network connectivity option. **Price:** Rs 35,900 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70715

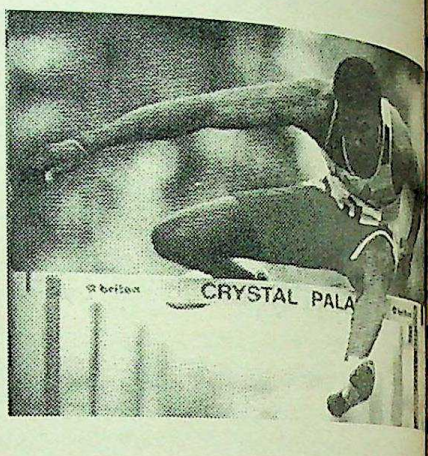


Inkjet printer usage has mushroomed, thanks to their ultra-low cost, quality and silent printing

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

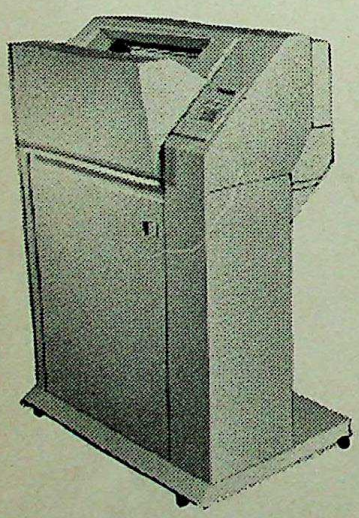
Imagine being on hostile ground and remaining the fastest



Like the Lipi

MT Line Matrix Computer Printer

IT'S RATHER TOUGH. BUT THEN, LIPI PRINTERS ARE THE FASTEST IN ITS AND OF COURSE, A LEADER IN EVERY WAY. ONE LOOK AT THEIR FE WILL MORE THAN CONVINCE



LIPI MT 691-1400 lpm printer

* **Proven reliability :** Thousands of installations in India against only a handful from competitors.
* **Superior Print Quality :** Hard material used in print elements.
* **Superior Paper Transport :** 4 tractors for reliable and fast paper movement. And reverse paper motion for printing graphics. Competition has only 2 tractors.
* **Multiple Interface :** Simultaneously active serial and parallel shared interfaces with auto-switching. Competition requires selection from the front panel.
* **Ethernet :** In-line ethernet interface for networking.
* **Pepped-up speed :** 17.5 inch carriage of Lipi printers has 1.5 inch of added carriage width to accommodate large sized forms like ... Cheques / Share Certificates printed abreast doubling the throughput as compared to competition. This gives the advantage of ... printers for the price of one.
* **Multilingual :** Ease of connectivity for M... Printing.
* **Reach :** Extensive All India sales & service ... from over 30 locations.

Lipi has Computer Printers every requirement from 300 to 2000 lpm in all technolog

ISO 9001

LIPI DATA SYSTEMS LTD.

Head Office : 1, Mittal Chambers, Nariman Point, Bombay - 400 021.
Ph : 91-22-2882960 / 61 / 62 / 63 / 64. Fax : 91-22-2873314.

LIPI EXCELS IN HIGH SPEED, HEAVY DUTY COMPUTER PRINTE

BRANCHES ● **Ahmedabad :** Ph.6569170 ● **Aurangabad :** Ph. 338540 ● **Bangalore :** Ph. 2272954 ● **Baroda :** Ph. 312941 ● **Belgaum :** Ph. 31366 ● **Bhopal** ● **Bhubaneshwar** ● **Calcutta :** Ph. 2429435 ● **Chandigarh :** Ph.43856 ● **Cochin :** Ph. 380935 ● **Coimbatore :** Ph. 436905 ● **Delhi :** Ph. 6467228 ● **Guwa** ● **Hyderabad :** Ph. 815185 ● **Indore** ● **Jabalpur :** Ph. 27988 ● **Jaipur : Jamshedpur :** Ph. 488506 ● **Kanpur :** Ph. 271977 ● **Kolhapur :** Ph. 620515 ● **Lucknow** ● **Madras :** Ph. 8283804 ● **Madurai :** Ph. 543003 ● **Mangalore :** Ph. 437043 ● **Nagpur :** Ph. 523187 ● **Nasik :** Ph. 570462 ● **Patna :** Ph. 236479 ● **Pune :** Ph. 455729 ● **Surat :** Ph. 474184 ● **Thiruvananthapuram : Udaipur :** Ph. 521700 ● **Visakhapatnam :** Ph. 532996.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...on Stylus Pro XL A-3 size high-end inkjet for design house applications. **Price:** Rs 116,500 **Vendor:** Wipro Peripherals **RQS#** 70716

...on Stylus Pro XL A-3 size high-end inkjet for design house applications. **Price:** Rs 116,500 **Vendor:** Wipro Peripherals **RQS#** 70717

...on Stylus ProXL Color inkjet printer with built-in cut sheet feeder; Bitronics and Mac serial port; network connectivity option. **Price:** Rs 99,900 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70718

...et IIc 600 x 300 dpi, 3 ppm with 12 resident scaleable fonts and 75-sheet output bin. **Price:** Rs 23,000 **Vendor:** Alphabetics Pvt Ltd **RQS#** 70719

...opyjet HP's 300 dpi color plain paper copier with PCL5 color, 7 ppm, 50-400 % zoom, PostScript, JetDirect, and Mac support. **Price:** Rs 115,000 (Regular); Rs 142,000 (Copyjet M) **Vendor:** Ultimedia System Associates **RQS#** 70720

...J 200 Low-cost black catridge. Optional color. **Price:** Rs 10,900 **Vendor:** Hewlett-Packard **RQS#** 70721

...J 400 Inkjet printer with color capability. **Price:** Rs 11,500 (Regular) 13,200 (With color cartridge) **Vendor:** Ultimedia System Associates **RQS#** 70722

...J 600 300 dpi single cartridge printer with color capability. **Price:** Rs 19,380 **Vendor:** Hewlett-Packard **RQS#** 70723

...J 660C 4-color, 300 dpi color, 600 dpi black inkjet printer. **Price:** Rs 32,215 **Vendor:** Hewlett-Packard **RQS#** 70724

...J 820 Cxi 600 dpi color inkjet printer. **Price:** Rs 26,000 **Vendor:** Hewlett-Packard **RQS#** 70725

...J 850 C 600 dpi color inkjet printer. **Price:** Rs 27,500 **Vendor:** Ultimedia System Associates **RQS#** 70726

...Xerox JP 450 300-dpi color inkjet printer. **Price:** Rs 22,000 **Vendor:** Modi Xerox **RQS#** 70727

...300 300-dpi, 3-ppm printer. **Price:** Rs 9,995 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70728

...nix Phaser 140 Colour Printer 1 ppm networkable inkjet color printer with PostScript Level 2 support. **Price:** Rs 87,000 **Vendor:** Tektronix (India) Ltd **RQS#** 70729

...nix Phaser 300i Color Printer 1 ppm, networkable, solid-ink color printer, supports PostScript Level 2 and PCL-5. **Price:** NA **Vendor:** Tektronix (India) Ltd **RQS#** 70730

...nix Phaser 480X Colour Printer Dye Sublimation color printer, resolution 300 continuous-tone photographic-quality, maximum speed 2.3 min. per page. **Price:** Rs 1,122,400 **Vendor:** Tektronix (India) Ltd **RQS#** 70731

...ter 150C Inkjet printer: 3 ppm (monochrome), 2-4 ppm color, 600 x 300 dpi both in black and color. Also prints from DOS apps running under Windows. **Price:** Rs 26,500 **Vendor:** Alphabetics Pvt Ltd **RQS#** 70732

...Genius Writer IJ-40 Monochrome inkjet printer with built-in auto sheet feeder, 720 dpi resolution, auto power-off, and several other features. **Price:** Rs 16,000 **Vendor:** Wipro Peripherals **RQS#** 70733

...Genius Writer IJC-310 Color desktop inkjet that can handle office reports, transparencies, cards, aprons, and a wide variety of media system designing. **Price:** Rs 13,500 **Vendor:** Wipro Peripherals **RQS#** 70734

...Genius Writer IJC-5100 True color 510 cps desktop inkjet printer that can handle a variety of media. **Price:** Rs 23,100 **Vendor:** Wipro Peripherals **RQS#** 70735

...Genius Writer IJC-80 True color portable inkjet printer with NiMH battery backup, auto power-off, reduction feature, and more. **Price:** Rs 24,500 **Vendor:** Wipro Peripherals **RQS#** 70736

PRINTERS: LABEL

...inter Seiko-Epson's label printers. **Price:** Rs 8,500 (SLP E230); Rs 14,500 (SLP PRO) **Vendor:** Wipro ...ed **RQS#** 70737

PRINTERS: LASER

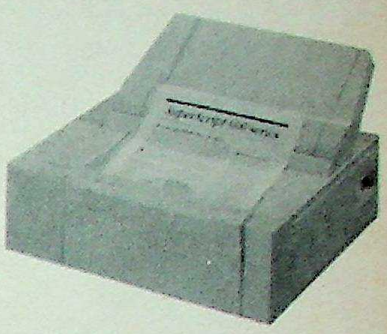
...MX 6300 300-dpi monochrome entry level laser printer. **Price:** Rs 29,000 **Vendor:** **RQS#** 70738

...EPL-3000 Laser for small-office use. **Price:** Rs 40,500 **Vendor:** Wipro Peripherals **RQS#** 70739

...Jet 5MP A fast, quiet 600 dpi printer with support for IrDA infrared. **Price:** Rs 63,750 **Vendor:** Hewlett-Packard **RQS#** 70740

...er Script 660 i 600x600 dpi, 6 ppm, 2 MB RAM, DOS and Windows compatible, 1200x600 dpi with ...hancement, on-screen print manager, GDI and PCL5e emulation color toner option. **Price:** Rs 45,000 **...ndor:** Digital World India Ltd **RQS#** 70741

...erScript 610 Plus 300x300 dpi, 6 ppm, GDI and PCL emulation Windows compatible bi-directional ...rallel interface toner save mode. **Price:** Rs 28,000 **Vendor:** Digital World India Ltd **RQS#** 70742



Laser printers today rule monochrome office printing, though the low end and color are inkjet territory

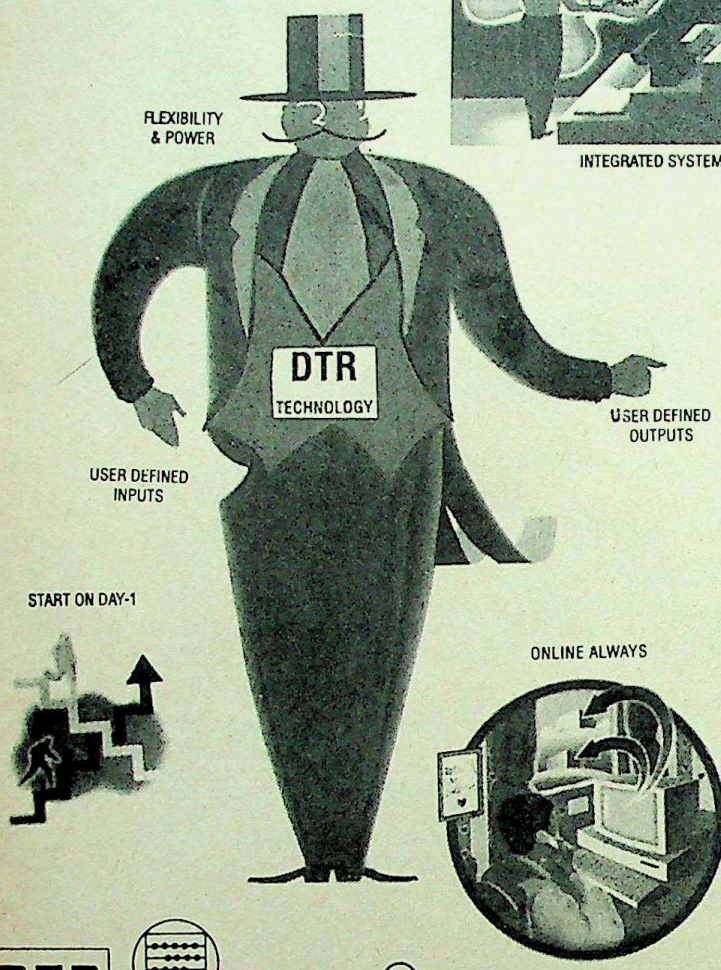
HARDWARE
PRINTERS: LABEL

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INTEGRATED SOLUTIONS THAT DRIVE BUSINESS OF TODAY!

INTEGRATED SYSTEMS



WORKHORSE

INTEGRATED BUSINESS SYSTEM

India's ONLY business system with focus on INVENTORY. It can handle manufacturing / trading inventory, costing, invoicing, ordering etc with ease. accounting module is more powerful than most s accounting packages!

User-definable inventory item, transactions and d

VETAN

OPEN ENDED PAYROLL SYSTEM

India's ONLY integrated PAYROLL system with in capacity to handle I. Tax estimation, deduction & 24. Handles loan & incentive calculations, Arre Bonus, Gratuity, etc. with ease. Any number of P with user configurable formulas can be created.

- Systems based on state-of-the-art DTR techno This gives the user undreamt of power and f ensures that the systems have capacity to re sync with ever-changing needs.
- Available in Stand alone / LAN, DOS/WINDO versions!!!
- Systems are priced in-line with non DTR / Non Integrated systems.

DTR TECHNOLOGY

SOFTLINK™ EXPORTS

310, Kharek Bazar, Mumbai - 400 009. **Tel.: 343 0148 / 343 9545 / 72 / 342 1268. Fax: 41**

DISTRIBUTOR: Gujarat - Nikka Computers, Baroda. Ph.334796.

DEALERS: ***Bombay*** - Astromac Computer, Ph. 8066045. Kolte Computers, Ph. 6140520. On Track, Ph. 6480074. Consultants, Ph. 2675958. Prime Systems, Ph. 5167181. ***Bangalore*** - Complete Solution INC, Ph. 6676177. M & M Ph. 2256298. ***Madras*** - Adrisc Computing Solution, Ph. 4349487. ***Ludhiyana*** - World Link Computers, Ph. 36944. Systems, Ph. 6447348. ***Goa*** - Professional Computer, Ph. 250701. ***Ankleshwar*** - Shrofftech,

DIPLOMA IN COMPUTERIZED BUSINESS SYSTEM (DCBs)

ATC enquiry welcome from existing training centres for conducting the popular DCBS (Diploma in Computerized Business System) course. A first ever 6 month diploma course that teaches total computerised business from accounts to inventory & ordering on an Industry standard system.

COURSES ALREADY BEING CONDUCTED IN OVER 30 ATC's ALL OVER INDIA.

DEALERSHIP ENQU WELCOME FROM THOSE WITH SOFTWARE SUPPO EXPERTISE. PREFERABLE: SOFTWARE DEVELOPERS. UNHEARD DEALER MARGINS.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...C 12 ppm, 600 dpi color laser printer with PostScript Level 2 and PCL 5e. **Price:** Rs 465,000 **Vendor:** Alphabetics Pvt Ltd **RQS#** 70743

...E 6 ppm, 600 dpi laser printer with PPDS and PCL 5 emulation; 150 sheet input and 100 sheet output ...t. **Price:** Rs 40,000 **Vendor:** Alphabetics Pvt Ltd **RQS#** 70744

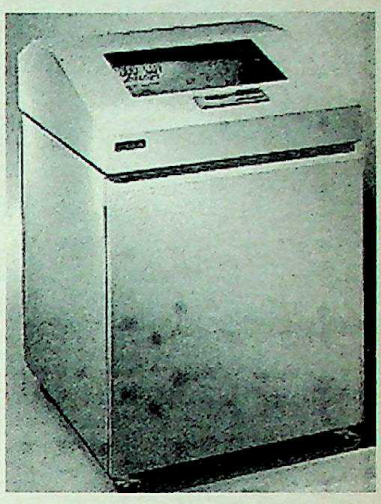
...R+ 12 ppm, 1,200 dpi laser printer with PostScript level 2 and PCL 5e; 35,000 pages per month duty ...cycle. **Price:** Rs 160,000 **Vendor:** Alphabetics Pvt Ltd **RQS#** 70745

...12 ppm, 1,200 dpi laser printer with PostScript Level 2 and PCL5e; 35,000 pages per month duty cycle. ...**Price:** Rs 100,000 **Vendor:** Alphabetics Pvt Ltd **RQS#** 70746

...**Phaser 340 Colour Printer** 4 ppm networkable laser-class color printer, with a photocopy option. ...**Price:** Rs 375,600 **Vendor:** Tektronix (India) Ltd **RQS#** 70747

...**Phaser 550 Colour Printer** 1,200 dpi color laser printer, with an output of 5ppm color 1 14 ppm ...monochrome. **Price:** Rs 501,100 **Vendor:** Tektronix (India) Ltd **RQS#** 70748

...600 dpi monochrome laser printer. **Price:** Rs 67,500 **Vendor:** Modi Xerox **RQS#** 70749



For heavy duty printing, line printers remain virtually the only output devices

PRINTERS: LINE

...645 Heavy duty 450 lpm line matrix printer with built-in graphics and bar code printing capability, ...simultaneously active serial and parallel ports, multilingual printing capability. **Price:** Rs 256,000 **Vendor:** Lipi Data Systems Ltd **RQS#** 70750

...661 Heavy duty 800lpm line-matrix printer with built-in graphics and bar code printing capability, ...simultaneously active serial and parallel ports, multilingual printing, etc. **Price:** Rs 325,000 **Vendor:** Lipi ...Data Systems Ltd **RQS#** 70751

...691 High speed (1,400 lpm) with built-in graphics and bar code printing capability, has simultaneously ...active serial and parallel ports, multilingual printing capability. **Price:** Rs 515,000 **Vendor:** Lipi Data ...Systems Ltd **RQS#** 70752

...man **TALLY–661** Line matrix Printer. Print speed of 800 lines per minute. **Price:** Rs 350,000 **Vendor:** ...ity Computer Consultants **RQS#** 70753

...rix Line Matrix Printer MVP - LI50B** Rugged, versatile, and 200 lpm printer meant for high end DTP ...pplications. **Price:** Rs 155,000 **Vendor:** Wipro Peripherals **RQS#** 70754

...rix Line Matrix Printer Model-P3040** Rugged, versatile, and 400 lpm printer for high end DTP ...pplications. **Price:** Rs 200,000 **Vendor:** Wipro Peripherals **RQS#** 70755

...rix Line Matrix Printer Model-P4008** Fifth generation printer desktop model with 800 lpm speed. ...Price: Rs 330,000 **Vendor:** Wipro Peripherals **RQS#** 70756

...ix Line Matrix Printer Model-P4212** Fifth generation low noise, reliable and rugged 1,200 lpm Printer. ...Price: Rs 525,000 **Vendor:** Wipro Peripherals **RQS#** 70757

...rix Line Matrix Printer Model-P4280** Heavy duty, low noise, and 800 lpm printer. **Price:** Rs 350,000 ...Vendor: Wipro Peripherals **RQS#** 70758

PRINTERS: PLOTTERS

...g Plotters and Digitizers** Range of pen, inkjet, laser and color thermal transfer plotters and digitizers. ...Price: NA **Vendor:** Hinditron Informatics Ltd **RQS#** 70759

...S Novaset Pro** 36 inch large-format color inkjet plotter. **Price:** NA **Vendor:** Digital Electronics Ltd ...RQS# 70760

...GCC-made A0-size, 8-pen drum-type plotter with 1 MB buffer size, 1,016 mm per sec, 0.0125 mm ...solution and DC servo control with all standard accessories. **Price:** Rs 190,000 **Vendor:** Mehta CAD-...M Systems **RQS#** 70761

...GCC-make, A1-size, 8-pen, flatbed-type plotter with 512 kB buffer, a speed of 420 mm per sec ...0.003 mm resolution and all standard accessories. **Price:** Rs 125,000 **Vendor:** Mehta CAD-CAM ...ystems **RQS#** 70762

...GCC-made, A1-size, 10-pen flatbed-type plotter with 1 MB buffer size, 1,016 mm per sec, 0.0125 mm ...olution and 2G DC servo control. **Price:** Rs 150,000 **Vendor:** Mehta CAD-CAM Systems **RQS#** ...0763

...r **Large Format Plotters** Pen plotters in A1/A2, A1/A4 and A0/A4 sizes. **Price:** NA **Vendor:** SEC ...chines Pvt Ltd **RQS#** 70764

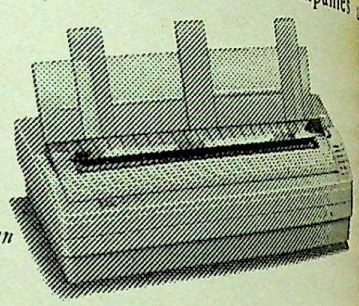
...tters It captures the data at a very high speed and relieves it quickly thus saving valuable computer ...operator time. **Price:** NA **Vendor:** Milestone Electronics **RQS#** 70765

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

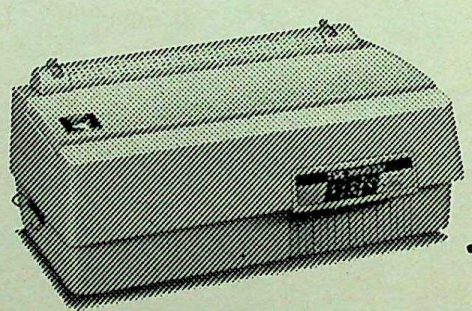
We make the printers most compute get hooked onto.

TVS Electronics has been making printers that India's leading computer companies



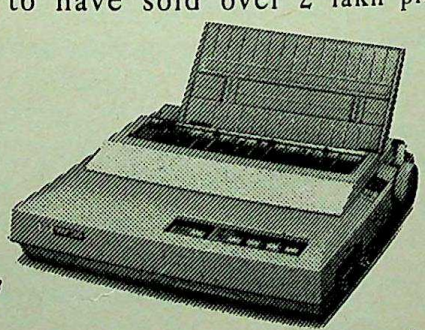
Q SERIES
• 216-336 CPS / Colour • 24 Pin / 80 & 136 column
• Rs. 14,995 onwards*

original equipment with their computers (because state-of-the-art computers need state-of-



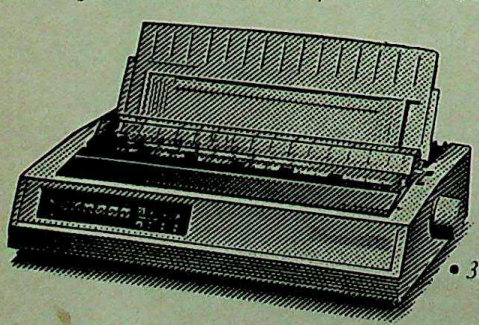
NOVO SERIES
• 175-192 CPS • 9 Pin & 24 Pin / 80 column
• Rs. 7,295 onwards*

printers). TVS Electronics is the only company to have sold over 2 lakh printers (making



MSP SERIES
• 240-300 CPS • 9 Pin / 80 & 136 column
• Rs. 8,995 onwards*

most preferred brand). Most of them have been repeat orders. Which only goes to prov



HD SERIES
• 300-540 CPS • 9 Pin, 18 Pin & 24 Pin / 80 & 136 column
• Rs. 23,995 onwards*

once you buy a TVS Electronics printer it'll soon become a habit.

TVS ELECTRONICS
The No.1 in p

*** Taxes and other levies extra.**

The complete range of TVS Electronics printers: *• Q10, Q20, Q25, Q35 • Novo 130, Novo 230 • HD 5650, HD 5000, HD 6595, HD 6590, HD 6045, HD 6040 • MSP 145 Plus, MSP 155, MSP 240, MSP 255.*

For further information, call TVS Electronics, Ahmedabad: 7411227/747869. Bangalore: 2261720/2261713. Mumbai: 6247350/6247364. Calcutta: 262137/268355. Delhi: 6212576/6212577/6212578. Madras: 6412422/6412650. Pune: 332856/369346. Secunderabad: 847244.

Digitized by Arya Samaj Foundation Chennai and eGangotri

...a P9 Color printer using dye sublimation technology, requires no drying time and eliminates wrinkling and smearing. **Price:** Rs 83,200 **Vendor:** Wipro Peripherals **RQS#** 70766

...Pro Color printer using thermal wax technology. Handles a wide variety of media, from transparencies to T-shirt transfers. **Price:** Rs 121,000 **Vendor:** Wipro Peripherals **RQS#** 70767

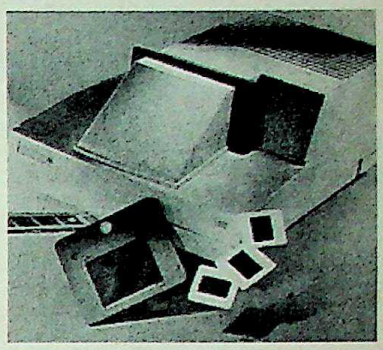
...Pro Mac Dual dye-sublimation and wax thermal transfer printer, Mac compatible. **Price:** Rs 133,000 **Vendor:** Wipro Peripherals **RQS#** 70768

...ix Phaser 240 Colour Printer Thermal transfer printer, resolution 600 x 300, page size A4, Maximum speed (color) 2 ppm. **Price:** Rs 276,600 **Vendor:** Tektronix (India) Ltd **RQS#** 70769

...ix Phaser 300i Colour Printer 1ppm (A3) Networkable sold-ink color printer, PostScript Level 2, PCL-5 monochrome and HP-GL support. **Price:** Rs 748,100 **Vendor:** Tektronix (India) Ltd **RQS#** 70770

...ix Phaser 440 Colour Printer Networkable dye-sublimation color printer. **Price:** Rs 598,500 **Vendor:** Tektronix (India) Ltd **RQS#** 70771

...0 PS High speed continuous tone dye-sub printer with multiple interface and PostScript-Level 2. **Price:** Rs 559,890 **Vendor:** Kodak India **RQS#** 70772



Film scanners scan images directly from 35 mm or larger negatives and slide films

SCANNERS

...Scanners Flat-bed and hand held scanners. **Price:** NA **Vendor:** Apex Computers Pvt Ltd **RQS#** 70773

...Page I/II (GENIUS) A4 size flat bed 1200 dpi...2400 dpi TWAIN compliant 24 bit pure color scanner. **Price:** Rs 32,000 **Vendor:** Compex Systems **RQS#** 70774

...GT300 Document image scanner for Windows; 300 dpi resolution; 4 ppm; 256 grayscale shades; document feeder. **Price:** Rs 34,050 (Mac); 35,800 (PC) **Vendor:** Redington (India) Pvt Ltd **RQS#** 70775

...GT5000 Color image scanner with 300 dpi resolution; Bitronics parallel or SCSI models with bundled software. **Price:** Rs 29,100 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70776

...GT8500 Optical color image scanner with 400 dpi resolution; 4 ppm scanning speed; built-in bi-directional and SCSI interface. **Price:** Rs 47,025 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70777

...GT9000 600 dpi color image scanner with 30 bit built-in bidirection and SCSI interface. **Price:** Rs 67,000 **Vendor:** Redington (India) Pvt Ltd **RQS#** 70778

...7,500-element CCD array reflection and transparency flatbed scanner. **Price:** $36,500 **Vendor:** Universal Print Systems **RQS#** 70779

...anner RFS 2035 Plus High speed film scanner. Accommodates 35 mm mounted or strip transparencies and negatives. **Price:** Rs 383,335 **Vendor:** Kodak India **RQS#** 70780

...anner RFS 3570 High speed scanner for multiple format film scanning. Supports 35... 70 mm negatives and positives. **Price:** Rs 403,925 **Vendor:** Kodak India **RQS#** 70781

...Drum Scanner 4500 Drum scanner with a high resolution and an optical density of 3.8. **Price:** Rs 94,500 **Vendor:** International Graphics Ltd **RQS#** 70782

...Drum Scanner 7500 12 bit per color drum scanner with a CD of 3.8 with SCSI-2 interface and enlargement facility of 10% to 3000%. **Price:** Rs 58,000 **Vendor:** International Graphics Ltd **RQS#** 70783

...gic MS 700i Laser Bar Code Scanner Laser bar code scanner with built in decoder, interfaced using RS232C or Keyboard wedge,. **Price:** Rs 62,000 **Vendor:** Basawa Technologies **RQS#** 70784

...gic MS951 Laser Bar Code Scanner Handheld laser bar code scanner with built in decoder, interfaced using RS232C or Keyboard wedge. **Price:** Rs 28,000 **Vendor:** Basawa Technologies **RQS#** 70785

...ft Scanners Large format A3-size scanners for reflective and transmissive image processing. 11.7 inch x 17 inch scanning bed, 36-bit, 4000 dpi, on-board digital signal processors. **Price:** NA **Vendor:** Hinditron Informatics Ltd **RQS#** 70786

...Color Scanner Handy 24-bit, 16-million color, 800-dpi scanner with interpolation, TWAIN driver, and OCR software. **Price:** Rs 8,500 **Vendor:** Pushpam Computers & Softwares **RQS#** 70787

...Gray Scanner(hand held Scanner) 800 dpi resolution, 256 grays, plus software for Windows, TWAIN driver, JPEG compression, OCR software. **Price:** Rs 4,500 **Vendor:** Pushpam Computers & Softwares **RQS#** 70788

...Colour (GENIUS) 24 bit true color handy scanner, TWAIN compliant 800 dpi with auto merging facility. **Price:** Rs 9,500 **Vendor:** Compex Systems **RQS#** 70789

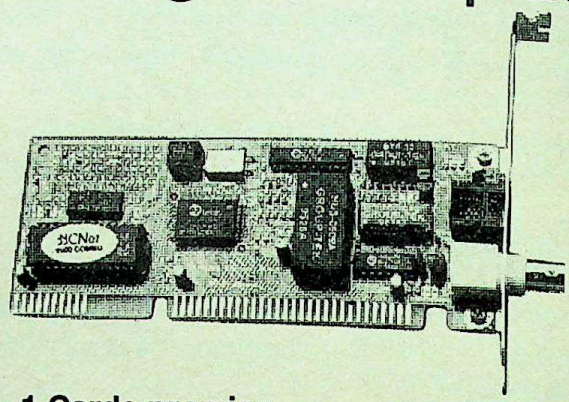
...ner 35t Easy-to-use 35-mm film scanner for scanning both positives and negatives. **Price:** Rs 93,500 **Vendor:** Transmatic Systems **RQS#** 70790

...ner 45t Offers professional quality photographs from transparencies and slides. **Price:** Rs 505,555 **Vendor:** Transmatic Systems **RQS#** 70791

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CNet Ethernet Cards belong to the future .... the prices belong to the past!



C Net ISA 16 - Bit 2 -in- 1 Cards promise you the best of both worlds. While you enjoy the power of the advanced PnP function, you pay no more than you did for your regular Ethernet Card!

If that is not enough, you also have the assurance of ISO 9001 standards - which goes to ensure that every card meets the promise of quality and innovation

Giving you the edge today - and in the future, too.

KEY FEATURES :

- ISA bus jumperless Ethernet adapter card fully compliant with NE2000.
- 10 Base2 (BNC) & 10 Base T (UTP) connection supported.
- Plug & Play mode selectable for the use of Windows 95.
- Easy configuration & Diagnostics included in the SETUP program.
- Auto detection for 8/16 bit bus interface.
- 16K Byte Buffer memory.
- On board Boot Rom socket.
- LED for Network traffic indication.
- Sixteen I/o Base Address & eight IRQ channels available.
- Fast 10Mbps CSMA/CD data transfer rate.

SEACOM
TECHNOLOGY PVT. LTD.

H.O.: No.1Tukaram Warehouse, S.No.25/2/2
Kondhwa Budruk, Pune 411048.
Phones : 212-671078, 610546 Fax : 212-671933.
Br.O.: Cisons Complex, Off. No. 6, No. 150/152,
Montieth Road, Egmore, Madras 600 008

CIRRUS
Electronic Systems Limited

H.O.: Kamla Heights, Cirrus Chambers,
433/D, Somwar Peth, Pune 411 001.
Phones : 633226, 632236, 630237,
Fax : 212-631132.

CIRRUS BRANCH OFFICES: ■ **Ahmedabad** Tel. : (079) 408782, Fax : (079) 6423061 ■**Bangalore** Tel. : (080) 2864559 Fax : (080) 2861468 ■**Bombay** Tel. : (022) 4943544, 4933950, 4923339, Fax : (022) 4950382 ■ **Cochin** Tel. : (0484) 351018 Fax : (0484) ■**Delhi** Tel. : (011) 6172790 Telefax: (011) 6166260 ■**Hyderabad** Tel. : (040) 294985 Fax:(040) 296508 ■**Kanpur** Tel. : (0512) Fax : (0512) 548576 ■**Karnataka & Goa** Tel. : (0354) 50021, 50324 Fax : (0354) 50416 (PP) ■**Madras** Tel. : (044) 8274938 Fax : (044) ■**Nagpur** Tel. : (0712) 526909 Fax : (0712) 524759,524079 ■**Vishakhapatnam** Tel: (0891) 552482 Fax:(0891) 572925

CNet Products available ex-stock at :

■**Ahmednagar** ●Yash Computers Tel.: (0241) 24403 Fax:(0241) 27511 ■**Ahmedabad** ●Sumisha Computers Tel. : (079) 6568850 Fax : (079) ■**Bangalore**●Digitelek Systems & Services Tel. : (080) 3374465 ●Oasys Office Automation Systems Tel. : (080) 3332599 Fax : (080) 3435669 ■**Bombay** Tel. : (022) 3871972, 3871975, 3822132 Fax : (022) 3874715 ■**Cochin**●Pentex Computers P. Ltd. Tel. : (0484) 367903, 367363 Fax : (0484) ●M/S Rashi Peripherals Pvt. Ltd. Tel.: (011) 6163266, 6193378 ● M/s Neelam Sales Agency Tel.: (011) 3746728, 3747328 Fax:(011) 7510392 ● M/s Khemi Stocks Tel.: (011) 6926672 Fax:(011) 6842978● M/s Alpha Data Inernational Tel.: (011) 6927236,6913669 Fax: (011) 2910408 ● M/s Khemi Stocks 6444241,6404312 ●Indus Trade Links Pvt. Ltd. Tel. : (011) 6446541, 6473611 ●Infosoft Electronics Pvt. Ltd. Tel. : (011) 6913885, 6830074 Fax : 6836838, 6811557 **Hyderabad**●Pioneer Marketing & Servicing Tel. : (040) 390627 ●Mohan Marketing Associates Tel. : (040) 846863, Fax : (040) 215843 ■**Indore** ●Magnum Computers Tel. : (0731) 536003, 432504 ■**Erode**●A-Team Computers Corporation Tel. : (0424) 215843 Fax : (0424) 215843 Corporation Tel. : (044) 831583, 8552621 Fax : (044) 2348772 ■**Nagpur** ●Aarkay Computers Tel. : (0712) 540265 Fax : (0712) 540265, 524759 Business Systems Tel. : (0212) 452200, 480056, 480057 ■**Vishakapatnam**●Innovative Information Technology Tel. : (0891) 545081.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ScanMaker II Simple affordable scanner with TWAIN compatible software. **Price:** Rs 31,200 **Vendor:** Transmatic Systems **RQS#** 70792

ScanMaker II HR Convenient scanning unit for graphic art designers. **Price:** Rs 71,240 **Vendor:** Transmatic Systems **RQS#** 70793

Spectra Physics HS 1250 Scanner 24 scan pattern, scratch proof inner glass window, interface is VIA RS 232. Has static and dynamically placed motor reads all universal symbols. Readable length is 12 inches. **Price:** NA **Vendor:** Leaf Automation India **RQS#** 70794

Umax Scanner Gemini D 16 Flatbed CCD scanner has a resolution of 800 X 400 dpi (optical) and 800 x 800 dpi (dual lens). **Price:** Rs 79,185 **Vendor:** International Graphics Ltd **RQS#** 70795

Umax Scanner Mirage D-16L A3 size scanner with a resolution of 1,600 x 800 dpi and 800 X 9,600 dpi and 6,400 X 6,400 dpi. **Price:** Rs 423,963 **Vendor:** International Graphics Ltd **RQS#** 70796

Umax Scanner Power Look II Flatbed CCD Scanner with a resolution of 600 X 1200 dpi (optional) and a maximum resolution of 9600 X 9600 dpi. **Price:** Rs 162,240 **Vendor:** International Graphics Ltd **RQS#** 70797

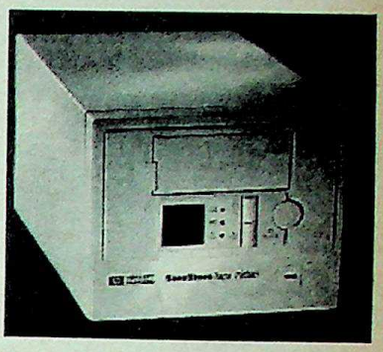
Umax Scanner VISTA 512 Scans photographs and other documents for office automation. **Price:** Rs 38,000 **Vendor:** International Graphics Ltd **RQS#** 70798

Umax Scanners 56E Compatible with PCs and Macs, and is cost-effective. **Price:** Rs 38,000 **Vendor:** International Graphics Ltd **RQS#** 70799

Unitech Hand Held CCD Scanner RS232/wand emulation/keyboard wedge interface, reading distance 25.4mm. **Price:** NA **Vendor:** Leaf Automation India Pvt Ltd **RQS#** 70800

Unitech Hand Held laser Scanner Range extends to 30.48 CM. 1232 / wand emulation/ keyboard interface, Reads reverse barcodes. Can interface with handy terminals, continuous and trigger read mode. **Price:** NA **Vendor:** Leaf Automation India Pvt Ltd **RQS#** 70801

Vidar TruScan CS400 Large-format color scanner. Comes with a standard SCSI interface and MS Windows compatible software. **Price:** NA **Vendor:** Digital Electronics Ltd **RQS#** 70802



For offline archival storage, cartridge tapes are still the favorites. Some can store up to 48 GB of data

HARDWARE
STORAGE DEVICES

STORAGE DEVICES

3M Floppies Imported anti-fungus, magnetic media, life-time warranty, 3.5 inch, 1.44 MB and 5.25 inch, 1.2 MB formatted disks. **Price:** Rs 375 (Pack of 10) **Vendor:** Hi-Tech Info Systems **RQS#** 70803

AMW Hard Drives Micropolis / Seagate Hard drives for recording and playback of video and animation on non linear editing systems. **Price:** Rs 53,500 (2 GB) **Vendor:** CAG Station **RQS#** 70804

Archive QJC 80 Cartridge Tape Drives Cartridge tape drives. **Price:** NA **Vendor:** Apex Computers Pvt Ltd **RQS#** 70805

Artech 6x CD-ROM Drive 6x IDE CD-ROM drive,supports all major CD formats, has an in-built audio amplifier, and a one year warranty. **Price:** NA **Vendor:** Digital World India Ltd **RQS#** 70806

DAT 2/4 GB DAT 3100 1 GB DAT drives; DAT 3200 0.5 GB DAT drives. **Price:** Rs 71,500 (Internal) **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70807

DAT Shuttle - 4 GB The 4 GB DAT Drive is a SCSI based device suitable for LAN back-up. **Price:** Rs 1,15,000 **Vendor:** Nexus Computers **RQS#** 70808

DAT Shuttle 4000 External device with 4 GB/8 GB DAT device with SCSI expansion slot and backup software. **Price:** Rs 100,000 **Vendor:** Nexus Computers Pvt Ltd **RQS#** 70809

Fido 420I 420 MB IDE-based internal tape drives. **Price:** Rs 10,500 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70810

Fido 800I 800 MB IDE-based internal tape drive - 800i. **Price:** Rs 15,250 **Vendor:** Fourth Dimension Technologies Pvt Ltd **RQS#** 70811

Floppy Diskettes Expected lifetime of 30 million passes with a signal level 50% higher than the ANSI standards. **Price:** Rs 270..320 **Vendor:** Datatrac Computer Systems **RQS#** 70812

Fujitsu Hard Disk Drives Fujitsu Hard Disk Drives and Printers. **Price:** NA **Vendor:** Apex Computers **RQS#** 70813

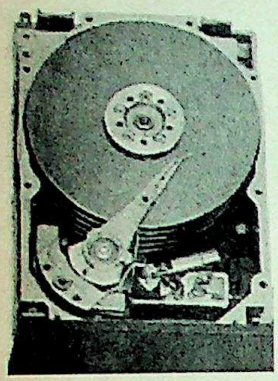
Colorado T1000 High capacity internal backup system for PCs. **Price:** Rs 11,500 **Vendor:** Wipro Peripherals **RQS#** 70814

Colorado T1000 & T1000e 800 MB with data compression or 400 MB native parallel interface tape drive(Travan)T1000--Internal. **Price:** Rs 1,100 (T1000); 19,000 (T1000e) **Vendor:** Spectra Innovations (India) Pvt Ltd **RQS#** 70815

Colorado Tape Backup T 4000S 4GB native or 8GB compressed SCSI-2 tape storage device (Travan) QIC-3095 Format, 5.25 inch form factor. **Price:** Rs 24,000 **Vendor:** Spectra Innovations (India) Pvt Ltd RQS# 70816

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Hard disk drive prices have dropped sharply, with 1 GB units selling for under Rs 10,000

HARDWARE

STORAGE DEVICES

HP SureStore CD-Writer 4020i CD-Writer is a 2x CD-ROM recorder and 4x CD-ROM reader. Bundled Windows 3.11 and Win 95 drivers to create database, audio CDs etc. **Price:** Rs 75,400 **Vendor:** Wipro Peripherals **RQS#** 70817

HP SureStore Tape 12000e 48 GB auto coder data drive. **Price:** Rs 375,000 **Vendor:** Wipro Peripherals **RQS#** 70818

HP SureStore Tape 2000 i / e 2 GB dat drive available in internal and external models, comes with Colosseum backup for Windows. **Price:** NA **Vendor:** Wipro Peripherals **RQS#** 70819

HP SureStore Tape 5000 i / e 4 GB data drive which comes in both internal and external models. **Price:** NA **Vendor:** Wipro Peripherals **RQS#** 70820

HP SureStore Tape 6000 i / e 8 GB DAT drive available in internal and external models. **Price:** NA **Vendor:** Wipro Peripherals **RQS#** 70821

Hard Disk Drives IDE HDDs from JTS Corporation USA. Product ranges from 850 MB to 2 to 2.4 GB. Available in the Indian market with 2 year warranty. **Price:** Rs 10,500 for 1 GB. **Vendor:** Significant Software Solutions **RQS#** 70822

Hard Disk Drives, Cartridge Tape Drives A range of hard disk drives and tape drives. **Price:** Rs 2,[illegible] **Vendor:** Apex Computers Pvt Ltd **RQS#** 70823

IBM Hard Disk Drives IBM Hard Disk Drives 540 MB, 1GB. **Price:** NA **Vendor:** Apex Computers Pvt Ltd **RQS#** 70824

Micropolis High Capacity Hard Disk Drives Micropolis hard disk drives (2.1GB...1 GB). **Price:** NA **Vendor:** Apex Computers Pvt Ltd **RQS#** 70825

Panasonic Power Drive 2 Recordable optical disk drive and quad speed CD ROM. **Price:** Rs 35,000 **Vendor:** Datalinker **RQS#** 70826

Quantum Bigfoot 1.2 GB/2.5 GB AT 5.25 inch Fast ATA-2 high capacity disk drive: Capacities 1.2 GB and 2.5 GB. **Price:** NA **Vendor:** Spectra Innovations (India) Pvt Ltd **RQS#** 70827

Quantum Fireball TM Series 2.1 GB/3.2GB AT 3.5 inch Fast ATA-2 high capacity and performance disk drive. Capacities 2.1 GB and 3.2 GB. **Price:** NA **Vendor:** Spectra Innovations (India) Pvt Ltd **RQS#** 70[illegible]

Seagate HDD 630 MB 630 MB hard disk drive. **Price:** Rs 10,600 **Vendor:** Alpine Computers **RQS#** 70[illegible]

Sony Data Media 3.5 inch floppy disks and data cartridges. **Price:** Rs 295 (Pack of 10) **Vendor:** Information Technologies **RQS#** 70830

Sony Magneto Disk Drives Magneto disk drives. **Price:** NA **Vendor:** Apex Computers **RQS#** 70831

Specstore External Disk Drive SH032160TM-A External Parallel Port Hard Disk Drive 3.2 GB Fast [illegible] **Price:** Rs Pricing on request **Vendor:** Spectra Innovations (India) **RQS#** 70832

Specstore External SCSI CTD ST3820-SES External 525 MB 5.25 inch SCSI cartridge tape drive. Price: **Vendor:** Spectra Innovations (India) **RQS#** 70833

Specstore-DAT External ST001536-SES 2GB/4GB External SCSI 2/4GB DAT Drive, 2GB native and 4GB using data compression. **Price:** Rs 67,850 **Vendor:** Spectra Innovations (India) **RQS#** 70834

Syquest EZ HardDisk (Removable) Removable Hard Disk Drives. **Price:** Rs 15,000 upwards **Vendor:** Zon Marketing **RQS#** 70835

Syquest EZ HardDisk Cartridge - Removable Read and write cartridges for storage security and transportability. **Price:** Rs 1,800 upwards **Vendor:** Zon Marketing **RQS#** 70836

Tandberg Data QJC Tape Drives Tandberg Data QJC high performance SCSI cartridge tape drives. Price: NA **Vendor:** Apex Computers Pvt Ltd **RQS#** 70837

Tandberg Panther Mini TDC 3720 2GB or 4.6GB 2GB or 4GB high performance plug and play SCSI mini cartridge tape drive. **Price:** Rs 37,950 **Vendor:** Spectra Innovations (India) Pvt Ltd **RQS#** [illegible]

Tape Shuttle 1.2 GB Parallel port device for taking a back up of a HDD. **Price:** Rs 75,000 **Vendor:** Computers **RQS#** 70839

Tape Shuttle 250 MB External device with 250 MB tape drive connected to a system through the parallel port. Bundled with DOSArch for data backup. **Price:** Rs 35,000 **Vendor:** Nexus Computers Pvt Ltd **RQS#** 70840

Tape Shuttle 525 External SCSI 525 MB cartridge tape drive with software for backup. **Price:** Rs [illegible] **Vendor:** Nexus Computers Pvt Ltd **RQS#** 70841

Teac FDD 1.2 MB 5.25 inch floppy disk drive. **Price:** Rs 2,000 **Vendor:** Alpine Computers **RQS#** 70[illegible]

Teac FDD 1.44 MB 3.5 inch floppy drive. **Price:** Rs 1,800 **Vendor:** Alpine Computers **RQS#** 70843

Trav'ler Hard Disk Those who can't afford notebooks can become mobile with this portable hard disk and carry the information in their pocket. **Price:** Rs 19,000 (200 MB); Rs 26,000 (400 MB) **Vendor:** [illegible] International **RQS#** 70844

Writeable CD Used for data and audio storage of upto 682 MB. Has a 100 year lifespan. **Price:** Rs [illegible] **Vendor:** Kodak India **RQS#** 70845

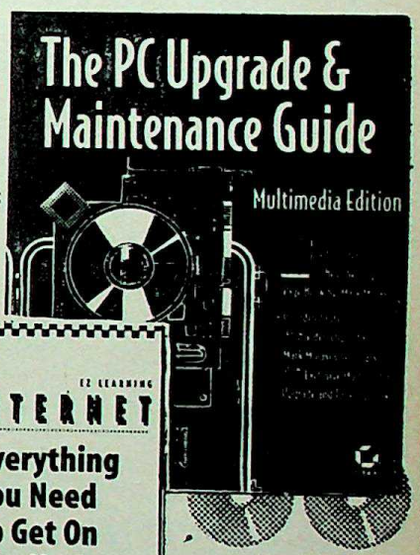
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

All about Computers, now on CD-ROM!

PC UPGRADE & MAINTENANCE GUIDE

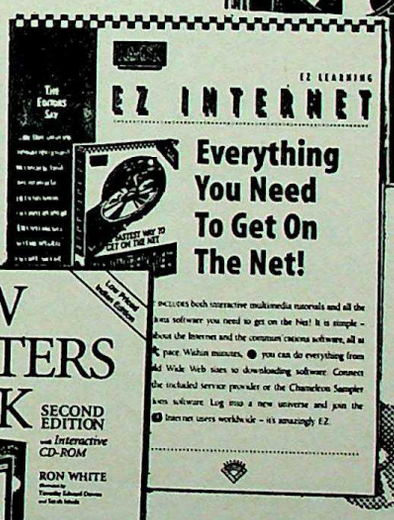
The best selling "Do-it-yourself" PC maintenance book has gone interactive. To help you ask, troubleshoot and fix your own PC, yourself. It shows you with full text & sound, how to Install, protect, and troubleshoot CPUs, disk drives, SCSI devices, memory, circuit boards, modems and serial interfaces, video adapters and displays, sound boards, CD-ROM drives, video capture systems, laser printers, and more. .....**WITH 2CD'S**



Rs. 999/-

EZ INTERNET TUTOR-CD

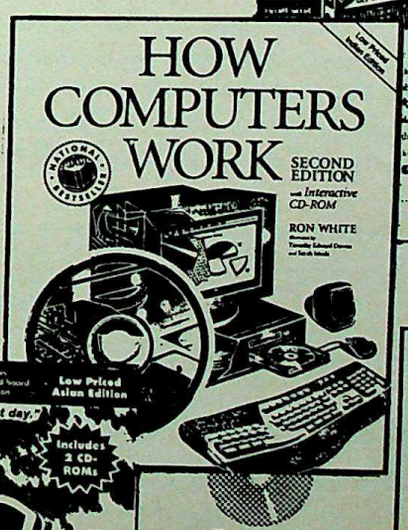
Your multimedia guided tour of the Net possibilities. The easy-to- learn tutorials are backed by step-by-step audio and video multimedia & covers everything from etiquette to terminology. From interesting locations to software options and everything in between. This multimedia guide is, in fact, better than a personal tutor......**WITH CD**



Rs. 495/-

HOW COMPUTERS WORK

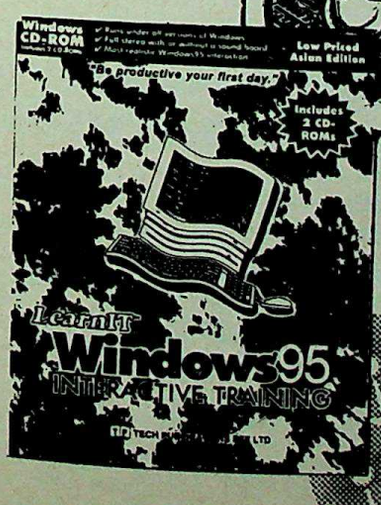
The answer to every question you ever wanted to ask about your wonderful PC is here. Full colour illustrations make even the complex, very simple. Discover for yourself the cutting edge technologies, including the Internet.Multimedia Sound & Video, Pentium processors, Local bus architecture, Plug & Play, CD-Rom, Digital Cameras, Color printing, and more. To bring you the most comprehensive computer show ever put at your disposal. .....**WITH CD**



Rs. 495/-

LEARNIT WINDOWS '95

Upgrading to Windows '95 has never been easier. Just Learnit - for Windows '95. And you'll learn all the tips and tricks to work productively under the new environment. The simulation is so real that you feel you're learning to handle the real thing. It includes working task-bars and pull-down menus. And the two-person animation gives you verbal instructions even without a sound-card. .....**WITH 2 CD'S**



Rs. 499/-

DEALERS / DISTRIBUTORS ENQUIRIES SOLICITED

bpb multimedia
Munish Plaza, 20, Daryaganj, New Delhi - 2.
Ph.: 327 2329, 326 7741 Fax : (011)-3266427

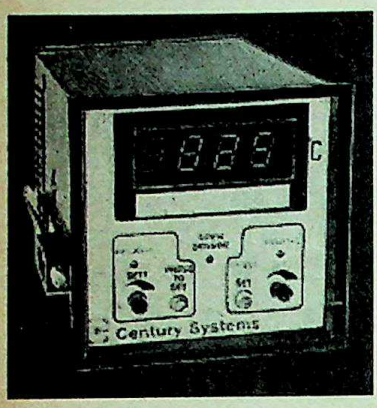
Available at :

BPB PUBLICATIONS
B-14, Connaught Place,
New Delhi-1. Ph.: 332 5761, 332 5760

INFOTECH
G-2, Sidharth Bldg. Nehru Place,
New Delhi -19. Ph.: 6415092.6438245

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



With growing numbers of small manufacturing operations, there's a flood of test and measurement devices on the market

HARDWARE
TEST EQUIPMENTS

Data Logger Numerical and graphical analysis of stored temperature data. **Price:** Rs 45,000 **Vendor:** Century Systems **RQS#** 70846

Dew Point Controller Displays temperature, limit values and hysteresis. **Price:** Rs 20,000 **Vendor:** Century Systems **RQS#** 70847

Digital PID Controller - CS PID 7542A Power testing device. **Price:** Rs 12,500 **Vendor:** Century Systems **RQS#** 70848

Humidity Controller Measures humidity in atmosphere. **Price:** Rs 14,000 **Vendor:** Century Systems **RQS#** 70849

Intelligent Satellite Unit Testing thermocouples. **Price:** Rs 22,500 **Vendor:** Century Systems **RQS#**

LAN Analyser PCMCIA/ISA Complete LAN analyzer for TCP/IP, Netware, DEC NET, Vines and Apple **Price:** Rs 298,000 **Vendor:** Trans-Tel Communications **RQS#** 70851

Linear IC Tester Linear IC tester to functionally check different linear ICs with PC interface for test and upgradation. **Price:** NA **Vendor:** Minmax Electronics **RQS#** 70852

Maximum Demand Controller Displays instantaneous kVA and integral kVA. Battery backed RAM. Selectable integral time 15 minutes / 30 minutes. **Price:** Rs 20,000 **Vendor:** Century Systems **RQS#** 70853

Mini Data Logger Scans temperature from eight channels. **Price:** Rs 19,500 **Vendor:** Century Systems **RQS#** 70854

Net Ranger Handheld portable network tester, run tests on server or network segments. **Price:** Rs 2[illegible] **Vendor:** Trans-Tel Communications **RQS#** 70855

Noise Figure Meter Used for measurement of noise figure. **Price:** Rs 35,000 **Vendor:** AIMIL Sales & Agencies **RQS#** 70856

PID Controller - CS 7542-96 Takes thermocouple as input and displays seven segment LED. **Price:** Rs [illegible] **Vendor:** Century Systems **RQS#** 70857

Portable Humidity Indicator Measures humidity directly and can be used in food processing and process control industries. **Price:** Rs 9,500 **Vendor:** Century Systems **RQS#** 70858

Power Meter Digital power analyzer and power management system. **Price:** Rs 50,000 **Vendor:** Century Systems **RQS#** 70859

Programmer 31 Model - CS-7594 Off line analysis of set value and process variable with numerical and graphical interpretations. **Price:** Rs 22,500 **Vendor:** Century Systems **RQS#** 70860

TDR LAN Scanners/Bert Testers TDR LAN Scanners for Cat5 and Cat3 cable certification, fault isolation, hub activation. **Price:** Rs 89,500 **Vendor:** Trans-Tel Communications **RQS#** 70861

Temperature Calibrator Model - CS 75494 Simulates and measures thermocouples. **Price:** Rs [illegible] **Vendor:** Century Systems **RQS#** 70862

Temperature Measurement & Control Equipment Measures temperature. **Price:** NA **Vendor:** Century Systems **RQS#** 70863

Temperature Programmer Two modes of operation, profile and control. Inputs can be from either thermocouple or RTD temperature sensors. **Price:** Rs 20,000 **Vendor:** Century Systems **RQS#** 70864

Ultra Isolation Transformer With CMNR over 130 dB and coupling capacitance of 0.005 pF it can [illegible] sensitive equipment from noisy power lines. **Price:** Rs 3,700 **Vendor:** Aplab **RQS#** 70865

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

PCQ LABS PRODUCTS DATABASE

The Definitive Guide to Personal Computing Products

The PCQ Labs Products Database will help vendors make product details available to a wider audience. The database will become the most complete and comprehensive reference directory available for personal computing products.

To make sure that this database includes your product, complete the form on page 223 (or a photocopy) in this issue, and mail it to us. Make sure you include a product brochure, a good visual, the specifications and the list price.

The PCQ Labs Products Database will be published in print form in the July issue of PC Quest, and will also be available via the Internet and on CD-ROM.

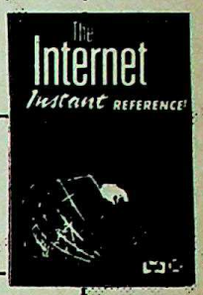
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Exploring the Internet

INTERNET ROAD MAP: *Internet brings the world to your computer This book shows how. The updated version features informed discussion, firstly, to help you make the Internet connection. Then gives you reliable directions for logging-in, sending and receiving 'e-mail' up / down load files, use Equinox, Usenet, FTP and Telnet. You can also get expert advise in which Internet features best to explore .*

Rs. 75/-



INTERNET INSTANT REFERENCE *: Look here for answer capsule to all your queries about the Net. Its culture, commands, tools and resources. A to Z entries deal with everything from abbreviation to Java to 'zines. And features the latest on the World Wide Web, Java, and other emerging technologies.*

Rs. 75/-

EZ INTERNET TUTOR-CD *: Your multimedia guided tour of the Net possibilities. The easy to learn Tutorials are backed by step-by-step audio and video multimedia & covers everything from etiquette to terminology. From interesting locations to software options and everything in between. This multimedia guide is, infact, better than a personal tutor.*

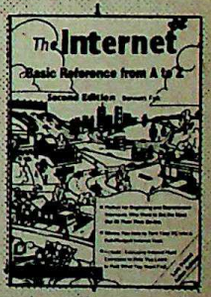
Rs. 499/-

THE INTERNET TOOLKIT *: Navigating the Internet can be easy when you know the right directions.This easy to understand book shows the way to best utilities, freeware and shareware for the needs of specific Internet users. Discover how to use online utilities like Ping and Finger, and choose best encoders compression utilities and viewers.*

Rs. 150/-

SURFING THE INTERNET WITH NETSCAPES *: This easy-to-read, easy-to-use comprehensive guide lets you grab and use the world's latest and most popular Web Browser viz. Navigator 2. That takes Internet interactivity to new dimensions. This guide shows you how to download the software, use it and view the best of the Worldwide Web. And you can surf savvy with the "Whats Out There Disk" which will deepen and add a new dimension to your Internet experience.*

Rs. 150/-

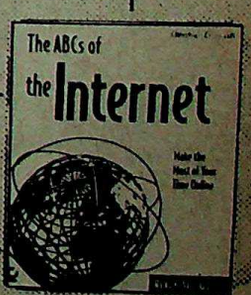


THE INTERNET BASIC REFERENCE FROM A-Z *: Beginning from the first step of getting connected, this will illuminate every step of your way to Internet expertise. Giving you step-by-step directions for logging-in, downloading files, using e-mail and more. You will also learn to use Gopher, the World Wide Web, and USENET News, Internet's huge global bulletin board. Even if you're a beginner you can learn to harness the full power of the Internet.*

Rs. 180/-

MASTERING THE INTERNET *: Its your complete guide for tapping the power of the Internet. By accessing information and putting it on the Net. Everything from basic security etiquettes to downloading multimedia files and servers are covered. Even first time user can search effectively by using the search tools described and use e-mail, Internet et al. The* **accompanying CD** *contains Net Cruiser - the integral Internet Toolkit, Internet Assistant and Internet Explorer.*

Rs. 450/-



ABCs OF THE INTERNET *: A trade oriented guide for using Internet's most practical features. For getting most of your on-line time, everytime. Learn the basic techniques, browse the World Wide Web, communicate with others, explore other Internet features and create your home pages after reading this book. Each chapter offers general information, followed by specific details and tips for using the most popular features.*

Rs. 90/-

BPB PUBLICATIONS

Asia's Largest Publishers of Computer & Electronics Books

B-14, Connaught Place, New Delhi-110 001. Fax : 335 1868, 326 6427

* Ahmedabad - 642 1611 * Bangalore - 5587923, 558 4641 * Bombay - 282 8296, 282 8297
* Calcutta - 242 6518, 242 6519 * Chandigarh : 56 1613, 56 7538 * Hyderabad - 512280 * Madras - 83 4796, 855 0491
* New Delhi - 332 5760, 372 3393, 325 4990, 326 7741, 643 8245, 641 5092 * Noida - 853 1346

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Because of its country-specific requirements, FA in India is the one area dominated by Indian packages—over 150 of them

SOFTWARE ACCOUNTING

AA+ 2.01 and Tradepack 2.01 Accounting cum reporting package. **Price:** Rs 10,500..15,500 **Vendor:** Computers Pvt Ltd **RQS#** 71001

ACCOUNTING KID 1.2 Accounting software with intelligent data handling, graphical analysis, multi-company multi-year operations. **Price:** Rs 9,500 **Vendor:** Microware Computers **RQS#** 71002

ACCOUNTS 6.0 Accounting software which supports multiple companies without limits on name, finished/raw materials inventory. Security features with password-protected backup. **Price:** **Vendor:** Unitech Computers **RQS#** 71003

ACCSMART FINANCIAL ACCOUNTING Multi-company, multi-user accounting for accounts, inventory, fixed assets, general ledger and cheque generation. **Price:** Rs 10,000 **Vendor:** Sanral Computer consultants Pvt Ltd **RQS#** 71004

ACE 5.1 Accounting package with trading and manufacturing inventory. Also includes order processing and printing of user-defined documents. **Price:** Rs 8,000 **Vendor:** Coral Softwares Pvt Ltd **RQS#** 71005

AIM 96 Accounting and inventory management software with consolidation of group companies, multi-printing, and inventory voucher. **Price:** Rs 4,990 **Vendor:** Link Point Computers **RQS#** 71006

AIM 96N Multi-user version of AIM 96 accounting and inventory management software. **Price:** **Vendor:** Link Point Computers **RQS#** 71007

AMPL 4.5 General purpose accounting software with report facility. Extended version available for inventory and production accounting. **Price:** Rs 6,500 **Vendor:** Lath Consultants **RQS#** 71008

Accord 4.0 Accounting package with inventory management. **Price:** Rs 9,950 **Vendor:** EDP Computers **RQS#** 71009

Amon Financials 1.0 Financial tracking, analysis and control with integrated accounts and inventory modules for Windows. **Price:** Rs 7,000 **Vendor:** Ampersand Software Applicatons **RQS#** 71010

Amon Home Financials 1.0 Personal accounting system designed for the home user for Windows. Rs 1,500 **Vendor:** Ampersand Software Applicatons **RQS#** 71011

Asset Financials Suite Uses Oracle and Sybase as backbone to exploits various features available in Windows. **Price:** Rs 18,000 **Vendor:** CG-VAK Software & Exports Ltd **RQS#** 71012

BINGO Financial accounting system for Windows with facility of unlimited groups, sub-groups and schedules. **Price:** Rs 9,999 **Vendor:** RDK Compu Data Techniks **RQS#** 71013

Balance 1.0 Inventory package with standard reports, on-line querying, wizards, itemwise and group stock monitoring. **Price:** Rs 3,800 **Vendor:** Faist Computer Services **RQS#** 71014

Bill 6.00 Online sales, purchase, order processing, analysis and invoicing. Free format order, challan, invoice designing. **Price:** Rs 5,000..12,500 **Vendor:** Datasoft Application Software India Ltd **RQS#** 71015

Bill Discounting Tracks discounting of bills, intercorporate deposits, advance against securities, LC, hundis, bill/brokerage payments and generates reports in various combinations. **Price:** Rs **Vendor:** Syscon Computers Pvt Ltd **RQS#** 71016

Bit Financial Accounting Comprehensive accounting including sales and purchase order management, customer and employer accounting upto balance sheet stage. **Price:** NA **Vendor:** BIT Computers **RQS#** 71017

Book Keeper Transaction package for organization accounting. **Price:** Rs 1,350 **Vendor:** RND Micro **RQS#** 71018

Book Shop Accounting Designed for invoicing, inventory and accounting for book shops. **Price:** Rs 15,000 **Vendor:** ICM Computers **RQS#** 71019

Branch Accounting Multi-branch accounting system for branch and open accounting. **Price:** Rs **Vendor:** Trisira Mindware **RQS#** 71020

Business Accounting Pack Collection of business and accounting programs including Finance Manager and Micro Accountant. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71021

Business Software 2.0 Covers accounting, inventory, sales order processing and invoicing. **Price:** 12,000..20,000 **Vendor:** Khera Consultants **RQS#** 71022

CA+ Accounting application to handle multiple companies and locations. Data export and Audit trail optional. **Price:** Rs 7,500..18,750 **Vendor:** Datasoft Application Software India Ltd **RQS#** 71023

CABS-PAS 2.50 Allows executives, and other professionals to track personal accounts, shares, debentures, insurance policies etc. **Price:** Rs 3,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71024

CFAS 3 Accounting software for multi-company financial operations. **Price:** Rs 3,000 **Vendor:** Computer **RQS#** 71025

Compact Integrated online financial accounting package with inventory management. **Price:** Rs **Vendor:** Cybersoft **RQS#** 71026

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Corporate Business Accounting Systems For companies interested in consolidated reports like trial balance, balance sheet. **Price:** Rs 4,991..9,995 **Vendor:** C-Fast Systems Pvt Ltd **RQS#** 71027

BUSINESS ACCOUNTING SET Accounting package. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71028

Bottom Line Accounting Financial Accounting program. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71029

ACC 1.0 Manage cash-book, ledger, statements, balance position, and trial balance. **Price:** Rs 7,000 **Vendor:** Supra Computers **RQS#** 71030

nce Accounts 1.0 Budgeting and financial accounting system. **Price:** Rs 29,950 **Vendor:** Processware Systems **RQS#** 71031

ba DOSTrade Codeless, menu-driven accounting software with multi-branch option for point-of-sale terminals. **Price:** Rs 10,000 **Vendor:** Dhruba Software **RQS#** 71032

uba WinTrade Codeless accounting with complete MIS and multi-company option. Allows automatic information transfer to sister firms. **Price:** Rs 12,500 **Vendor:** Dhruba Software **RQS#** 71033

AS 1.0 Manages trial balances, balance sheets, registers, and ledgers. **Price:** Rs 9,500 **Vendor:** Sri Bhuwan Computers **RQS#** 71034

DEX for LAN Multi-company business accounting software. **Price:** Rs 9,950..19,950 **Vendor:** Tata Consultancy Services **RQS#** 71035

MT-FAP Multi-company, multi-period FA software with variety of MIS and tax-audit reports. **Price:** Rs 4,950 **Vendor:** Compex Systems **RQS#** 71036

y Trade 1.4 Menu-driven FA software to maintain stock register, ledgers and other books. **Price:** Rs 8,500 **Vendor:** Shyam Computers **RQS#** 71037

F.A. Codeless, menu driven FA software, with single entry updates, graphs, balance sheet and Profit and Loss statements. **Price:** Rs 5,000 **Vendor:** Addy Computers **RQS#** 71038

Accounting software with all standard books and reports. **Price:** Rs 5,500 **Vendor:** Divine Computers **RQS#** 71039

3.0 FA system suitable for small- to medium-sized organizations. **Price:** Rs 4,990..8,990 **Vendor:** Jaya Computers & Softwares **RQS#** 71040

Quick Accounting Accounting software with MIS, inventory, invoicing and standard reports. **Price:** Rs 250 **Vendor:** Kohli Software **RQS#** 71041

rts 2.0 Accounting, purchase, inventory and export management package designed for carpet exporters. **Price:** Rs 25,000 **Vendor:** Computer Software Services **RQS#** 71042

S 6.01 Financial accounting package with invoicing, job-costing, MGT reports, and balance-sheet, designed specifically for advertising agencies. **Price:** Rs 22,000 (DOS), 34,000 (Netware) **Vendor:** Mediaware Infotech Pvt Ltd **RQS#** 71043

ckage Maintains all standard books and does invoicing. **Price:** Rs 3,500 **Vendor:** Navrang Software **RQS#** 71044

SQL 2.0 Fixed assets management and accounting software for medium and large firms. **Price:** Rs 125,000 **Vendor:** Infonet **RQS#** 71045

Codeless menu-driven accounting with support for online query. **Price:** Rs 3,950 **Vendor:** Cybersoft **RQS#** 71046

AN 7 Business accounting software with MIS. **Price:** Rs 8,500 **Vendor:** Accountronics **RQS#** 71047

Integrated package for accounting, inventory, payroll and sales invoicing. **Price:** Rs 20,000..25,000 **Vendor:** Automate Computer **RQS#** 71048

ccounting 5.9 Codeless accounting system with zoom query and MIS/analysis features. **Price:** Rs 7,500 **Vendor:** Quill Publishers **RQS#** 71049

s: Financial accounting package with multi-company facilities. **Price:** Rs 6,100 **Vendor:** AB Computer Applications **RQS#** 71050

L 3.1 Financial accounting packages with support for multiple companies and projects. **Price:** Rs 3,850 **Vendor:** Exnora Infosys **RQS#** 71051

ple FA package with MIS, income tax and sales tax requirement reports. **Price:** Rs 5,000..7,000 **Vendor:** Automate Computer **RQS#** 71052

S Character based finance and accounts management system. **Price:** Rs 10,000..40,000 **Vendor:** Basawa Technologies **RQS#** 71053

s on Oracle Oracle integrated financial accounting package. **Price:** Rs 500,000 **Vendor:** Basawa Technologies **RQS#** 71054

Accounting package for manufacturing and trading concerns. **Price:** Rs 11,500 **Vendor:** Neha Computer Services **RQS#** 71055

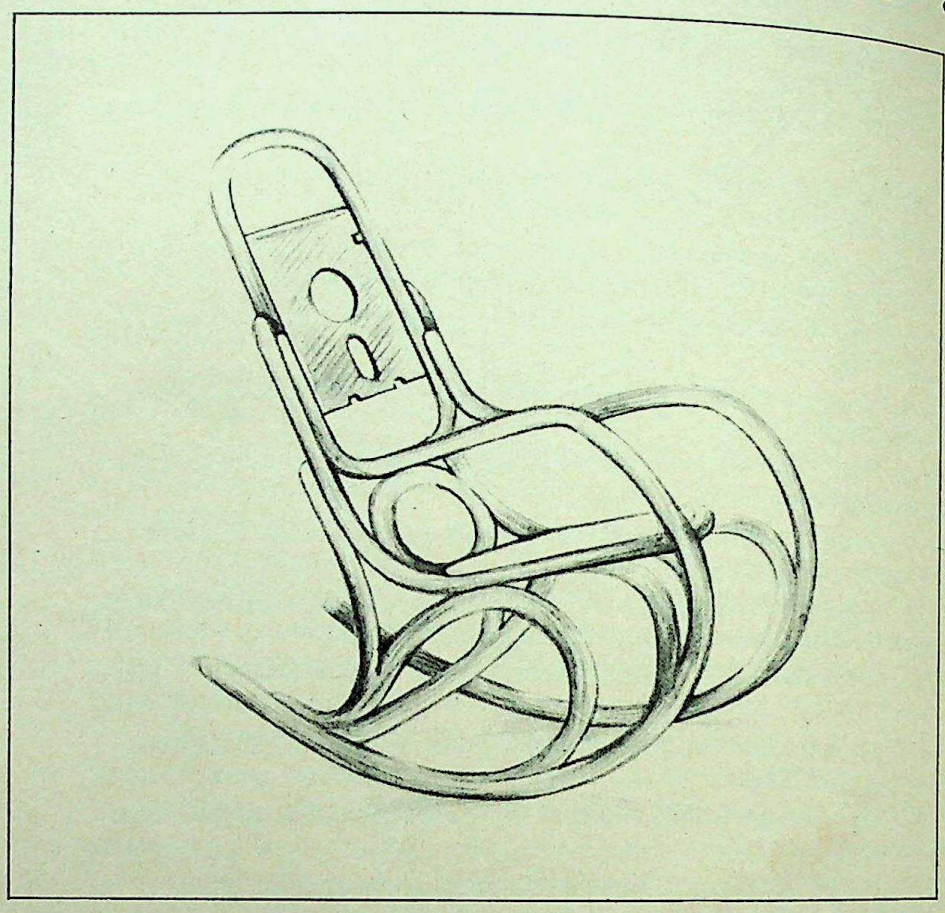
Indian FA software ranges from shareware to high-end network apps with MIS reporting

SOFTWARE ACCOUNTING

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Now Relax !!!



with 'EASY'

The most competent Financial Accounting Package today.

Available with full details of accounts, sales/purchase, inventory (manufacturing & trading both) order, challan etc.

Regd. Office

SUPPORT SYSTEMS PVT. LTD.

353, Marshall House, 33/1, Netaji Subhas Road. Calcutta-700 001.
Phone : 220 4199/6529/6487/5451. Fax : 91 (033) 4734544.

Branch Office :

Delhi : 576-7210/574-5596.
Bombay : 389-0413/387-2021 P.P., Fax : 91-22-3872472
Patna : 23-7969, Lucknow : 26-8261, Guwahati : 52-3060.

DEALERSHIP ENQUIRY SOLICITED.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ncer 1.0 Multi purpose software to manage financial accounting, previous scheduling system in balance sheet, and auto backup. **Price:** Rs 10,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 71056

...nance Accounting System FA pacakge with support for online query. **Price:** Rs 8,500 (Netware) **Vendor:** Winners Computer Services **RQS#** 71057

...ncial Accounting System Network-ready accounting software. **Price:** Rs 7,000..18,000 **Vendor:** ICM Computers **RQS#** 71058

...ncial Accounting System 3.20 Provides vouchers, account receivable/payable, day book and ledger analysis, cash flow, cost centers and bank reconcilation. **Price:** Rs 4,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71059

...ncial Accounts Multi-company accounting-cum-inventory package that supports multiple financial periods, auto-generation of voucher number and reports in various combinations. **Price:** Rs 7,000 **Vendor:** Syscon Computers Pvt Ltd **RQS#** 71060

...k Accounting software for small- to medium-sized firms. **Price:** Rs 8,000 **Vendor:** JJ Compusoft **RQS#** 71061

...k 7.0 Combines financial accounting, stock control and word processing and can be used by CAs or at shop counters by sales staff. **Price:** Rs 1,500 **Vendor:** JJ Compusoft **RQS#** 71062

... Accounting 1.5 Accounting, invoicing and inventory system for Windows. **Price:** Rs 9,800..17,500 **Vendor:** Delta Software Systems **RQS#** 71063

...s 4.5 Enterprise-wide accounting solution. **Price:** Rs 9,000...28,000 **Vendor:** Softline Software Services Pvt Ltd **RQS#** 71064

...Plus Accounting software for traders and manufacturers with graphs to represent various reports. **Price:** NA **Vendor:** Hiranandani Developers Pvt Ltd **RQS#** 71065

...-Excise 3.0 Accounts, invoicing, sales tax register, quarterly sales report, ST-II report, pending forms report, and outstanding payment. **Price:** Rs 15,500..20,200 **Vendor:** Square Services **RQS#** 71066

...S Code-free FA package with MIS facilities. **Price:** Rs 9,950 **Vendor:** Infors Consultancy Services **RQS#** 71067

...y Codeless, menu-driven accounting software for Macs. Supports laser and dot matrix printers. **Price:** Rs 13,500..9,500 **Vendor:** Bellman Data **RQS#** 71068

...grated Finance System Allows all financial transactions including general ledger accounts, assets accounting, forex transactions etc. **Price:** Rs 35,000..100,000 **Vendor:** AI Soft Pvt Ltd **RQS#** 71069

...llery Shop Accounting Billing and accounting package for jewellery shops. **Price:** Rs 15,000 **Vendor:** ICM Computers **RQS#** 71070

... FA with excise and commercial invoicing inventory, comprehensive tax details, complete business accounting with sales purchase, inventory and accounting modules. **Price:** NA **Vendor:** Kruti Systems **RQS#** 71071

...oney 3 Accounting application for SOHO. Includes US tax schedules. **Price:** $28 **Vendor:** Ultimedia System Associates **RQS#** 71072

... Accountant FA package that generates balance sheet, P/L account,ratio analysis, cost center schedules, and ledgers. **Price:** Rs 10,000..25,000 **Vendor:** Mostek Electronics **RQS#** 71073

... FA Package for trading concerns with multi-company option. Prints vouchers and cheques, generates BRS, MIS, and analysis reports for inventory, fund-flow. **Price:** Rs 25,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71074

... 3.0 Integrated accounting, inventory and MIS for flour mills. **Price:** Rs 25,000..35,000 **Vendor:** Jaya Computers & Softwares **RQS#** 71075

... FA for money lenders with all forms, books and requirements according to the Money Lending Act. **Price:** Rs 13,500 **Vendor:** Neha Computer Services **RQS#** 71076

... 3 Complete financial and inventory package that is auditor-friendly. **Price:** Rs 20,000 **Vendor:** Ravichandra Systems & Computer Services Ltd **RQS#** 71077

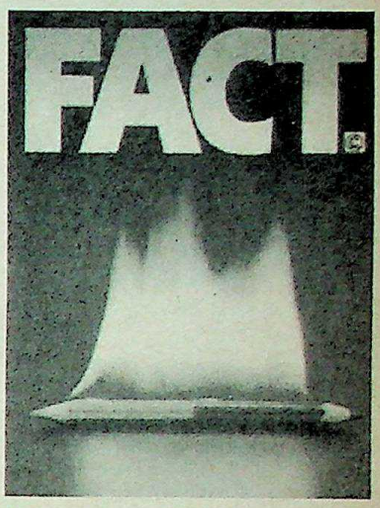
... A/C Systems 3.1 A comprehensive multi-company accounting package. Has power failure recovery utilities. **Price:** Rs 9,500 **Vendor:** Novel Informatics **RQS#** 71078

...T Multi-lingual accounting, inventory and invoicing software. Available in English, Gujarati and Hindi versions. **Price:** Rs 9,775 **Vendor:** Alpha Computer Systems **RQS#** 71079

... 1.1 GUI-based multi-year FA package that offers unlimited vouchers and user-configurable accounts tree. **Price:** Rs 11,000 **Vendor:** Srujana Technology **RQS#** 71080

...ne Financial Services Includes modules on accounting, fixed deposits and hire/purchase systems. **Price:** NA **Vendor:** Vision Software **RQS#** 71081

... 3.5 Offers financial accounting, inventory, MIS and invoicing for DOS and LAN **Price:** Rs 8,500 (FA only), 14,500 (with Inventory) **Vendor:** Bluechip Solutions **RQS#** 71082



At least one Indian FA package, FACT, has made inroads into several international markets

SOFTWARE ACCOUNTING

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Become an exclusive WordPerfect dealer-cum-stockist

because

it will now sell even better

because

Corel has taken over the WordPerfect range from Novell

because

Corel has improved it even more

because

under Corel, WordPerfect will become the world's best-selling office suite

To become an exclusive WordPerfect dealer-cum-stockist in your city, you need to be financially sound, and possess relevant experience in the IT industry, along with the necessary technical and infrastructural support.

SVAM SOFTWARE LTD.

because

SVAM is now the exclusive distributor for COREL WordPerfect range in India.

(DOS • UNIX • WINDOWS • WIN '95)

DEALER-CUM-STOCKISTS NEEDED FOR THE FOLLOWING CITIES :

Delhi, Calcutta, Mumbai, Madras, Lucknow, Pune, Ahmedabad, Hyderabad, Bangalore, Jaipur, Cochin, Chandigarh, Kanpur, Jammu, Patna, Nagpur, Trivandrum, Bhubaneshwar, Guwahati, Baroda, Surat, Dehradun, Ludhiana, Shimla, Goa.

SVAM SOFTWARE LIMITED

New Delhi : 70, Janpath, Connaught Place, New Delhi - 110 001. Ph. : 11-3731844-5, 3320224. Fax : 3723266. **Bangalore :** 84/2, S.T. House, 1st Floor, Richmond Road,Bangalore - 560 025. Ph. : 080-2240396. Fax : 080-2240397. **Mumbai :** 104, Adarsh, 1st Floor, 86, Main S.V. Road, Santa Cruz (West), Mumbai - 400 054. Ph. : 022-6462053. Fax : 022-6462053. **Calcutta:** Flat No. 306, B-Block, Mansarover Building, 3B, Camac Street, Calcutta - 700 016. Ph. : 033-292260.Fax : 033-2429044.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Finsoft FA Menu-driven multi-company online FA with batch processing facility. **Price:** Rs 6,000..10,000 **Vendor:** Decision Software India **RQS#** 71083

Finsoft IBM Integrated online FA, invoicing and inventory control system with MIS support. **Price:** Rs 9,500..12,500 **Vendor:** Decision Software India **RQS#** 71084

Multi Account Code based accounting software with inventory and outstandings. Generates user defined and MIS reports. **Price:** Rs 2,500 **Vendor:** Trisira Mindware **RQS#** 71085

Multi Accounting AX 1.0 Codeless accounting software. Generates all standard reports. **Price:** Rs 2,600 **Vendor:** Shyam Computers **RQS#** 71086

Multi-FA Release 4 Generate reports on income tax, sales tax, tax audit, MIS and bank reconciliation. **Price:** Rs 13,500..22,500 **Vendor:** Microbrain Computer Consultancy **RQS#** 71087

Multi Fact 2.5 Contains modules for accounting, inventory, sales and purchase ordering system. **Price:** Rs 6,000 **Vendor:** Brainwave Computer Systems **RQS#** 71088

Multi DOSACC v5.0 Codeless menu-driven financial accounting package. **Price:** Rs 2,550 **Vendor:** Sam Computer Consultants **RQS#** 71089

Multi WINACC v2.0 Codeless, menu-driven, online, financial accounting package. **Price:** Rs 11,550 **Vendor:** Sam Computer Consultants **RQS#** 71090

Multicash Menu-driven FA package that supports multi-company accounts. Allows selection and zooming into any account head for greater transaction detail **Price:** Rs 2,000 **Vendor:** SS Compwares Pvt Ltd **RQS#** 71091

MYAC 2.0 Multi-company accounting system that requires only basic knowledge of double-entry book keeping. **Price:** Rs 3,000 **Vendor:** Jayanti Graphics Pvt Ltd **RQS#** 71092

Nath Labh 3.2 Comprehensive accounting solution for stock brokers. Complies with SEBI and other statutory requirements. **Price:** Rs 24,900..39,900 **Vendor:** Jaya Computers & Softwares **RQS#** 71093

Net Accounts Accounts software. **Price:** Rs 40,000 **Vendor:** Tech Systems **RQS#** 71094

Society Accounting Accounting package for societies and rental agencies. Generates society bills and rent receipts. **Price:** Rs 7,000 **Vendor:** Syscon Computers Pvt Ltd **RQS#** 71095

Society Accounting System (SA 96) Package to maintain cooperative society accounts. **Price:** Rs 4,990 **Vendor:** Link Point Computers **RQS#** 71096

Total Accounting Control Accounting package with order-processing, inventory, fixed assets, and multi-currency modules. **Price:** Rs 15,000 **Vendor:** EGS Computers **RQS#** 71097

Trade Integrated accounting with inventory and invoicing features. **Price:** Rs 12,000 **Vendor:** Divine Computers **RQS#** 71098

Trisira V 2.1 Accounting software with in-built editor, on-line queries, and reports that can be viewed, stored, or printed. **Price:** Rs 7,500 **Vendor:** Synergy Consultancy Services **RQS#** 71099

Trisira Codeless accounting software with inventory outstandings and billing. Automatic generation of reports. **Price:** Rs 12,500 **Vendor:** Trisira Mindware **RQS#** 71100

VAL Offers free-format invoice printing and inventory and graphical representation of data. **Price:** Rs 7,777 (DOS), 15,000 (Win), 13,333 (LAN) **Vendor:** Datasoft Application Software India Ltd **RQS#** 71101

Vyapar 5.0 Handles book-keeping and MIS information such as cash flow, fund flow, and budgeting. **Price:** Rs 27,000 **Vendor:** Peutronics **RQS#** 71102

Vyapar 5.0 Multi-company codeless accounting software. **Price:** Rs 7,500 **Vendor:** Excelsoft Systems **RQS#** 71103

Vyapar-Integrated Software 5.0 Integrated accounting software. **Price:** Rs 14,500 **Vendor:** Excelsoft Systems **RQS#** 71104

VAL 2.04 Business accounting package with free format invoice printing and inventory. **Price:** Rs 7,777..13,333 **Vendor:** Datasoft Application Software India Ltd **RQS#** 71105

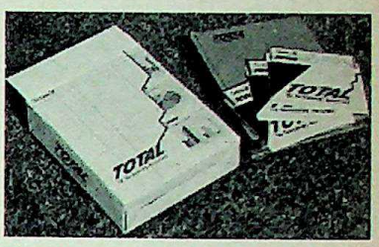
Wizkey 3-in-1 Integrated accounting, inventory and invoicing system for traders. **Price:** Rs 16,000 **Vendor:** Quill Publishers **RQS#** 71106

Wizkey Professional Accounting system which handles sales, purchase, accounts receivable/payable and offers zoom query. **Price:** Rs 14,000 **Vendor:** Quill Publishers **RQS#** 71107

WTRM 2.0 Generates income and expenditure account statement, balance sheet and Form IX C as required by Trust Act after consolidation of receipt and payment A/Cs. **Price:** Rs 6,000 **Vendor:** Om Computer Center **RQS#** 71108

Xpress 95 Business accounting software with codeless operation, templates, cues, tool-tips and context sensitive help. **Price:** Rs 7,500 **Vendor:** Duckback Information Systems Pvt Ltd **RQS#** 71109

Zeal 8.0 Coded and codeless FA with user-definable invoicing and balance sheet, and inventory management. **Price:** Rs 16,000 **Vendor:** Datatrac Computer Systems **RQS#** 71110



Graphical reporting, both within Windows and DOS FA packages, has made business data analysis easier

SOFTWARE ACCOUNTING

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

What the best keyboards in Indian Market have in common

	MICROTEK	TVSE
Keyswitch	Cherry Germany MX1A - E1NN	Cherry Germany MX1A - E1NN
Keytops	Double Injection Imported	Double Injection Imported
Keyboard Controller	Intel	Intel
Cable	Coiled, Moulded High Quality	Coiled, Moulded High Quality
Cabinet	Sleek, Ergonomical	Sleek, Ergonomical
Workmanship	World Class	World Class
Functioning	Smooth & Gentle	Smooth & Gentle
Approvals	FCC class B U.S.A.	FCC class B U.S.A.
Warranty	2 Years	2 Years

Over 60,000 Keyboards sold by Microtek in less than one year

NOW!
MICROTEK's LONG LIFE KEYBOARD IS ONLY Rs.
Rs. 1275/-
(ALL INCLUSIVE)

2 year WARRANTY
Long Life
RELIABILITY
MICROTEK

Mtek KEYBOARDS
BEST TECHNOLOGY AT YOUR FINGERTIPS™

FULL VALUE FOR YOUR MONEY

Mtek Long Life MICROTEK

OEM suppliers to :- *PCL, ALTOS, Modi Olivetti, CALS, DCM, PCS, ET & T, CMC, L & T & Others*

AVAILABLE AT : AMRITSAR - R.K. COMPUTER 292926. **BANGALORE-MICROTEK:** 628176 **BOMBAY-MICROTEK :** 8392971 **CHANDIGARH** - IBM - 605839 **DELHI** - PULSE SYSTEMS 6442 CHALLENGER 6435194 **JALLANDHAR** - SYNDICATE COMPUTER 227124. **JAIPUR** - EXPERT COMPUTER - 37 C.S INFOTECH - 518538.. **MADRAS -MICROTEK-:** 8556105 **NAGPUR** - MAYUR COMPUTERS 535127, K.K. COMP ERS 526150 **PARWANOO-MICROTEK :** 33383 **PUNE** - BLUE POINT POWER LINES 65

DEALERS ENQUIRIES WELCOME FROM UNREPRESENTED AREAS :

FAX TO : 011-5472907,5472659, 01792-33381, 044-8556105, 022-8392971.
MICROTEK SERVICE CENTERS/DEPOTS :- DELHI: 011-5475365 BOMBAY: 022 - 8392971 MADRAS: 044-8556105
CALCUTTA : 10/2, BELIAGHATA ROAD CAL-700010 BANGALORE: 080-628176/6600417 PARWANOO/CHANDIGARH : 01792-33383
Incase of any difficulty please fax to :- 011-5472907, 5472659 (Head Office), 01792-3381, 044-8556105, 080-6602143, 022-83

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...kFA Handles multi-company FA, multi-branch invoicing and orders etc. **Price:** Rs 16,000 **Vendor:** ...fix Softwares Pvt Ltd **RQS#** 71111

...A Accounting software with inventory and invoicing functions. **Price:** Rs 20,000 **Vendor:** Divergent ...formation Technologies Pvt Ltd **RQS#** 71112

...A 208 Financial accounting software with invoicing and purchase. **Price:** Rs 9,000..14,000 **Vendor:** ...Softek **RQS#** 71113

...s 6 Modular accounting software. **Price:** Rs 7,950..24,450 **Vendor:** Wings Business Sytems Pvt Ltd, ... **RQS#** 71114

...s 6.3 Integrated FA, inventory and production package. Offers bills for materials, production costing ...and variances. **Price:** Rs 14,950 **Vendor:** Wings Business Systems **RQS#** 71115

...T FA software which covers accounts, inventory, receivables/payables, order processing, mailing list ...and personal portfolio management. **Price:** Rs 7,500 **Vendor:** Esspee Softwares **RQS#** 71116

ANTI VIRUS

...Virus Scanner Virus scanning and clearing utility. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71117

...lomon's Anti-Virus Toolkit Provides fast and accurate scanning with a wide range of checking, ...control and repair tools. **Price:** Rs 5,550..22,350 **Vendor:** IT Secure **RQS#** 71118

... Professional 6 for Windows NT (Free Update) Features a toolbar with single-click access to most ...frequently used features. **Price:** Rs 4,000 **Vendor:** Knoxware **RQS#** 71119

... Professional for DOS 6 free Updates Scans for and cures most viruses. Also scans for unknown ...viruses. **Price:** Rs 2,250 **Vendor:** Knoxware **RQS#** 71120

... Professional for Windows Features a toolbar with single-click access to most frequently used ...features. **Price:** Rs 3,000 **Vendor:** Knoxware **RQS#** 71121

... Professional for Windows 95 Features a toolbar with single-click access to most frequently used ...features. **Price:** Rs 3,000 **Vendor:** Knoxware **RQS#** 71122

...0.01 Comprehensive anti-virus software. **Price:** Rs 1,888..3,888 **Vendor:** Fifth Generation Software **RQS#** 71123

...Secure Anti-virus tool to protect file server and nodes from virus attacks. **Price:** Rs 7,500 **Vendor:** ...LRA Soft **RQS#** 71124

... ViruScan 2.2.9 Virus detection and prevention software for DOS and Windows. **Price:** Rs 3,980 **Vendor:** Pyramid Business Systems **RQS#** 71125

...LM Protects networks against known and unknown viruses, and can be used in conjunction with ...workstation versions of NAV and SAM. **Price:** Rs 12,000 **Vendor:** Sonata Software Ltd **RQS#** 71126

... NLM Server-based anti-virus software that scans and cleans viruses from all the attached nodes. **Price:** Depends on number of nodes. **Vendor:** Nashsoft Systems **RQS#** 71127

...pack 3 A complete software solution to disk problems with antivirus. Also help retrieve important data ...from the hard disk. **Price:** Rs 5,495 **Vendor:** Nashsoft Systems **RQS#** 71128

... NLM for Netware 6 (2 Free Updates) Software for scanning files as they are being used. **Price:** ...Rs 18,000 **Vendor:** Knoxware **RQS#** 71129

...idServer 2.3 Anti-virus NLM for protection against all viruses, including polymorphic and stealth. **Price:** Rs 22,069 **Vendor:** Pyramid Business Systems **RQS#** 71130

... Administrator 2.0 Network administration tool to automate manual LAN administration tasks such ...as hardware and software inventory. **Price:** Rs 18,450 **Vendor:** Infosys Technologies Ltd **RQS#** 71131

... Anti-Virus for DOS/Windows Protects DOS and Windows files against known and unknown ...viruses, and repairs infected files. **Price:** Rs 3,000 **Vendor:** Sonata Software Ltd **RQS#** 71132

... Antivirus 3.0 Protects servers from PC and Mac viruses. **Price:** Rs 2,550 **Vendor:** Infosys ...chnologies Ltd **RQS#** 71133

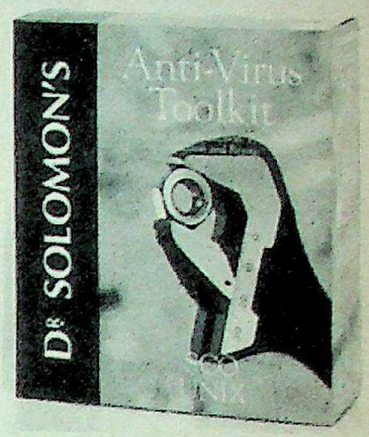
...ard Anti-virus software for known and unknown viruses. Can selectively enable or disable drives. **...rice:** Rs 7,500 **Vendor:** Pyramid Business Systems **RQS#** 71134

...rd Plus 2.0 Anti-virus software that guards against known and unknown viruses. **Price:** Rs 2,000 **...Vendor:** Pyramid Business Systems **RQS#** 71135

...rdour 2.20 Comprehensive anti-virus software. **Price:** Rs 4,500..19,000 **Vendor:** MicroWorld **RQS#** 71136

...et 5 Anti-Virus defence system **Price:** Rs 3,000..7,500 **Vendor:** N & N Systems & Software **RQS#** 71137

... Complete antivirus software with three modules for scan, cure and prevention. **Price:** Rs 1,490 **...Vendor:** Infotrend Services **RQS#** 71138

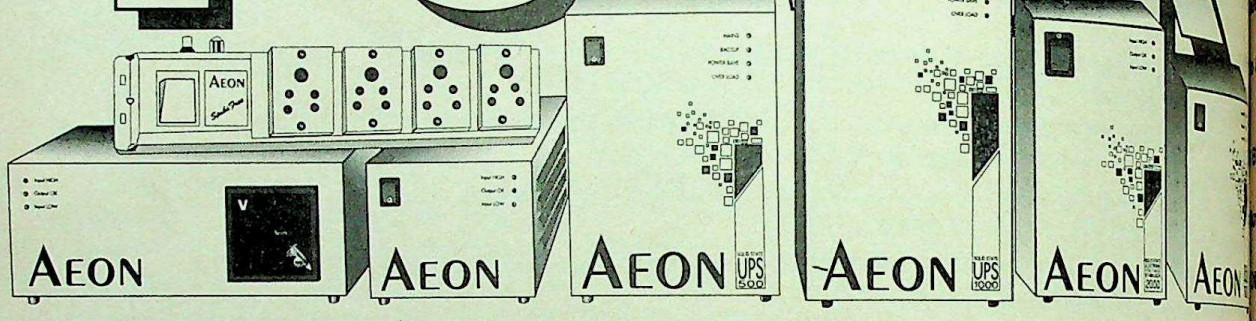


With hundreds of new virus strains appearing each year, there's also a wide range of scanners and vaccines to choose from

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AEON-The SILENT REVOLUTION in POWER



CONDITIONING TECHNOLOGY

AEON **UPS** has the advanced Static Changeover technology, beating all the relay based UPS effortlessly in transfer speed. Its fully Solid State AVR takes care of mains voltage variation of an unparalleled 150 to 300V a/c. With a high speed spike suppresser internally built, and capability to withstand input surge of up to 350V, AEON is prepared to take on the worst! Its MOSFET inverter has an intelligent Automatic Idle Run Management incorporated which cuts down unnecessary battery charge wastage when computers are not in use.

AEON **UPS** comes with internal maintenance free batteries for 30, 60 or 120 minutes backup and external battery models for more backup.

AEON **Electronic Generator** for Tube Lights, Fans, TV etc. is MOSFET based with a SMPS battery charger from 120V to 300V AC.

AEON **Spike Free** a four outlet spike suppressor with common ... differential mode filter, master illuminated switch, ABS plastic housing ... colors to suit office decor.

AEON **Electronic Voltage Stabilizer** is a fully Solid State Voltage ... takes care of mains variation of 150 to 300V. Incorporating the On ... Changing technology, with extremely fast response time, it is suitable ... areas of violent voltage fluctuation. With automatic high or low volta... high speed spike suppresser, delayed turn on, and generator compa... **stabilizer** provides maximumprotection for all input conditions.

Quantum

No.56, Main Channel Road, 1st Floor, Ulsoor, Bangalore - 560 008. Te...

Available at :

● **BANGALORE** : COMPUTER FACTORY (I) PVT LTD Ph. : 5566485, HARDSOFT SOLUTIONS Ph. : 648752, CADDONS COMPUTER SERVICES Ph. : 6691170, RGS TE... Ph. : 5589468, BUSINESS LINK Ph. : 2242033, CONNOISEUR Ph. : 5543668 ● **HUBLI** : NAVNEET SYSTEMS Ph. : 66405 ● **MANGALORE** : PALS MICROSYSTEMS ... ● **GUNTUR** : FRONTLINE COMPUTERS Ph. : 232370 ● **VISAKAPATNAM** : STARGATE TECHNOLOGIES Ph. : 555920, GAYATRI COMPUTERS & COMMUNICA... Ph. : 546804 ● **KAKINADA** : BHAVA COMPUTERS Ph. : 79473, S S COMPUTERS Ph. : 72519 ● **VIJAYAWADA** : POWER SYSTEMS Ph. : 66137, MIST COMPUTERS SER... COSTAL COMPUTERS Ph. : 476157 ● **HYDERABAD** : MC COY ASSOCIATES Ph. : 848052, PRIME COMPUTERS Ph. : 840583, EAST COAST COMPUTER... DAISY SYSTEMS PVT LTD Ph. : 243852, SPIK & SPAN SYSTEMS Ph. : 235845, KRISHNA SYSTEMS PVT LTD Ph. : 274006, POOJA MARKETING SERVICES Ph. : 8279199, COMPUTER FA... COMPUTERS SERVICES PVT LTD Ph. : 842870, V-TECH SOFTWARE SYSTEMS Ph. : 563415 ● **MADRAS** : DIGITAL TECHNOLOGIES Ph. : 8275369, BIT BYTES PH. : 455599, VID... Ph. : 8524146, INIT SYSTEMS PVT LTD Ph. : 8276070, SESHI SOFTEC SERVICES Ph. : 8251257, DIGITAL CHANNEL PH. 8275369, BIT BYTES PH. : 232871 ● **ERODE** : BCB HA... Ph. : 4942066 ● **PONDICHERRY** : M D TOLIA COMPUTERS Ph. : 30266 ● **COIMBATORE** : LOTUS DIGITECK SYSTEMS Ph. : 5130389 ● **COCHIN** : MI... ● **SALEM** : HI-Q SYSTEMS Ph. : 448271 ● **GOA** : ALLIED COMPUTER SYSTEMS Ph. : 2235783 ● **BOMBAY** : FALCON COMMUNICATIONS Ph. : 69781 ● **CALICUT** ... Ph. : 311684, NATIONAL COMPUTERS Ph. : 364969 ● **CANNANORE** : KARE BUSINESS SERVICES Ph. : 68225, PRIMETECK SERVICES Ph. : 6423254 ● **RAJAHMUNDRY** : MICROMATIKS Ph. : 71702 ● **AHMEDABAD** : MOTHER PHONETIKS Ph. : 365643

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ve Detects and cures known and unknown viruses using integrity information. Also cures polymorphic, stealth and macro viruses. **Price:** Rs 2,500 **Vendor:** Pioneer Micro System **RQS#** 71139

ke NLM Detects and cures known and unknown viruses using integrity information, real-time scheduled, on-demand scanning, console and node based configuration. **Price:** Rs 18,000 **Vendor:** Pioneer Micro System **RQS#** 71140

Scanners And Vaccines Collection of shareware and freeware virus scanners and vaccines. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71141

Networks are particularly vulnerable to virus attack, hence the growing use of anti-virus software on servers

BUSINESS APPS

ter Handles counter sales. Generates sales slips and transaction reports. **Price:** Rs 4,000 **Vendor:** Esspee Software **RQS#** 71142

s Schedule Publisher Tool for planning and scheduling with advanced project management functions. **Price:** $1,770 **Vendor:** Abcon Information Systems **RQS#** 71143

6.5 Business automation software. **Price:** Rs 11,000..18,000 **Vendor:** CG-VAK Software & Exports Ltd **RQS#** 71144

PROJECT 2 Project management software within AutoCAD with timeline, resource and cost management, powerful DBMS and presentation manager. **Price:** Rs 20,500 **Vendor:** VVA Software **RQS#** 71145

Brother Computer-aided time keeping and security device to track users logged in and duration. Also includes client billing. **Price:** Rs 650 **Vendor:** CAG Station **RQS#** 71146

man 3.0 Software for front office and branch automation. **Price:** Rs 300,000 **Vendor:** Sysman Computers Pvt Ltd **RQS#** 71147

M Material Produces requirement lists and BOM for material. **Price:** Rs 1,000 **Vendor:** Landmark Software **RQS#** 71148

ger-Tax Designed for tax consultants and individuals for tax computations. **Price:** Rs 7,500 **Vendor:** BT Computers **RQS#** 71149

Security Software 1.0 Client/server branch automation system. Integrates signature verification and imaging modules. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 71150

1.0 Sub-broker cash accounting system. Maintains deliveries, billing and financial transaction. **Price:** Rs 7,500 **Vendor:** Computer Software Services **RQS#** 71151

Control System Helps in maintaining advertising and sales promotion budgets. **Price:** Rs 50,000 **Vendor:** Pragati Software Pvt Ltd **RQS#** 71152

ss Archives A comprehensive collection of interesting news clippings of last four years. **Price:** Rs 0,000 **Vendor:** CERC **RQS#** 71153

s Tracker 1.1 Consolidated business process management tool. **Price:** Rs 8,000 **Vendor:** Amdale Software Technology Pvt Ltd **RQS#** 71154

s Vision 1.0 Enterprise wide GUI software for business organizations. **Price:** Rs 42,000 **Vendor:** Objectland Software Technology **RQS#** 71155

MS 2.10 Billing, stores inventory and accounting requirements of pharmaceutical manufacturers and distributors. **Price:** Rs 9,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71156

TD 2.00 Tracking and mobilizing fixed deposits. **Price:** Rs 9,500 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71157

LMS 2.00 Automobile lease accounting and stores inventory. **Price:** Rs 9,500 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71158

MPS 2.00 For pharmaceutical companies to track their medical representatives. **Price:** Rs 9,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71159

AY 3.20 A comprehensive personnel information management system. **Price:** Rs 3,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71160

MS 3.10 Designed for restaurant management. **Price:** Rs 8,500 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71161

rtains stocks, sales and accounts for C&F agents. **Price:** Rs 25,000 **Vendor:** Computer Software ervices **RQS#** 71162

nsignment note and lorry hire tracking system for transporters. **Price:** Rs 40,000 **Vendor:** Trisira ftware **RQS#** 71163

T Total automation system for co-operative societies. **Price:** Rs 40,000 **Vendor:** Processware ystems Pvt Ltd **RQS#** 71164

0 Export management software for garment manufacturers and traders. **Price:** Rs 0,000..600,000 **Vendor:** Kaizen Consultants Pvt Ltd **RQS#** 71165

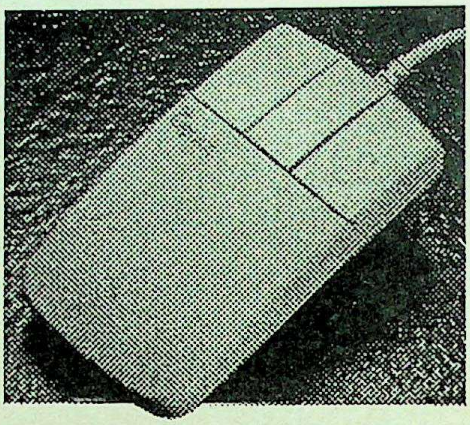
SOFTWARE
BUSINESS APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

4 inviting offers for the CompuCa

EASY MOUSE



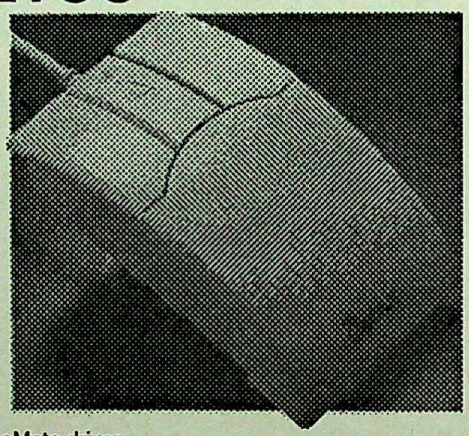
400 DPI opto-mechanical mouse. • Supports Plug and Play function • Easy-to-use in either DOS or Windows® 3.1/95 • Smooth Control due to new micro-switch technology.

EASY SCROL

Five-button 400 dpi mouse • Best Internet browsi... with scrolling feature. • Powerful "Roller" a... scroll bars. • Independent button assignments f... application. • New advanced user's interface pr... extra programmable features. • Increases ... and Internet produ...

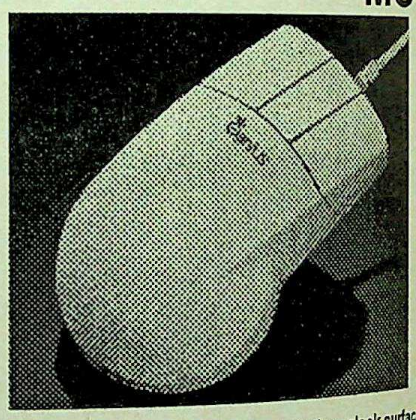
Genius®

MOUSETOO



Easy to use. MouseMate driver. MediaMate presentation software. Pad.

MOUSE



400 DPI high resolution, sleek surface mouse ... • Supports Plug and Play fuction. • Ergono... designed to fit perfectly in either hand. • Mouse... Interface lets you personalize the mouse ...

Presenting the Genius range.Acclaimed the world over for their innovativeness, Genius has powered ... world of computer technology with a range of hi-efficiency mouse.

Other Products : My Mouse • EasyTrak • Handheld Scanners • Flatbat Scanners • Digitizers • Joysticks & Joypad

COMPUAGE
ELECTRONICS PVT. LTD.

Head Office - **Mumbai :** 3, Dhuru Bldg., 329, Vithalbhai Patel Rd., Off Lamington Rd., Mumbai-4. • Phone : 385 1573 / 387 3436 • Fax : 387 ...
Branches - **Delhi :** E/2, Kalkaji Main Rd., S. F.-1, 2nd Floor, New Delhi-110 019. • Tel. : 6453431 • Fax : 645 3432
Bangalore : 408/409, 'B' Wing, Mithal Tower, 6 M. G. Rd.,Bangalore-560 001. • Tel. :558 8241 / 558 8901 • Fax : 559 6087

APC MULTIWAVE INNOVATION Genius GVC.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Networked business apps have a powerful spinoff, as an effective management information tool

Capita Stocks A corporate database with primary market information. **Price:** Rs 25,000..50,000 **Vendor:** Investwel Publishers **RQS#** 71166

a comprehensive travel management system. **Price:** Rs 5,000 **Vendor:** Divine Computers **RQS#** 71167

ander Decision 1.0 Provides business intelligence to multi-dimensional data. **Price:** Rs 40,000 **Vendor:** Mastek Ltd **RQS#** 71168

ander LAN EIS 4.2 Provides business intelligent applications and automated data integration. **Price:** Rs 1,000,000 **Vendor:** Mastek Ltd **RQS#** 71169

ruction Statistics A comprehensive package for promoters and property dealers. **Price:** Rs 4,000 **Vendor:** Syscon Computers Pvt Ltd **RQS#** 71170

act 1.0 Distributed sales management software. **Price:** Rs 9,995 **Vendor:** SiLicon Interfaces **RQS#** 71171

ive 1.0 Automation package for cable operators. **Price:** Rs 13,000..22,000 **Vendor:** Supra Computers **RQS#** 71172

Audio/Video Parlour Management A set of programs for audio and video parlors. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71173

BILLING ASSISTANT A set of billing programs. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71174

BUSINESS APPLICATION COLLECTION A collection of business shareware. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71175

Bank Financial Wizard A comprehensive package for bank automation. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71176

Budget Planner A budget planning software. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71177

Business Advisor A comprehensive business decision and activity guide. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71178

Business Collection Software for business application and office use. **Price:** Rs 1,499 **Vendor:** Databank Systems **RQS#** 71179

Business Form Designer Business form designer. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71180

DAYO Business Collection Collection of business software. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71181

FRONT OFFICE Collection of programs for general office management and maintenance. Includes Phone 303, Windial, and El-Task. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71182

OFFICE Collection of programs for the office. Includes a word processor, database, payroll and budgeting software. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71183

Windows Business Windows-based business applications. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71184

-IBS Solution for manufacturers and traders. Includes bill-of-material, stock with multiple location, voicing, order processing, financial accounting, MIS and tax audit reports. **Price:** Rs 7,950 **Vendor:** Compex Systems **RQS#** 71185

-TXT Inventory, invoicing, and FA solution for textile traders, manufacturer and dealers. **Price:** Rs 4,950 **Vendor:** Compex Systems **RQS#** 71186

(Exporters Management System) Comprehensive production planning control with sampling, costing, order estimate to actual comparison. **Price:** Rs 15,000 **Vendor:** C-Fast Systems Pvt Ltd **RQS#** 71187

y Software for timecard based salary apps. Takes care of all factors relating to salary. **Price:** Rs 7,500..10,000 **Vendor:** Softsolutions **RQS#** 71188

ounter Sale Software Multi-company sale software. Online cash and credit sale, inventory, billing and FA. **Price:** Rs 12,000 **Vendor:** Addy Computers **RQS#** 71189

ventory and Billing Integrated financial accounting, inventory and billing for traders. **Price:** Rs 4,000 **Vendor:** Addy Computers **RQS#** 71190

Distribution by Vans Multiple vans and agency software for managing inventory, billing and FA, sales and purchase order processing, sale and stock analysis. **Price:** Rs 20,000 **Vendor:** Addy Computers **RQS#** 71191

Export and import sticky notes, and do electronic filing. **Price:** Rs 5,000 **Vendor:** Computek India **RQS#** 71192

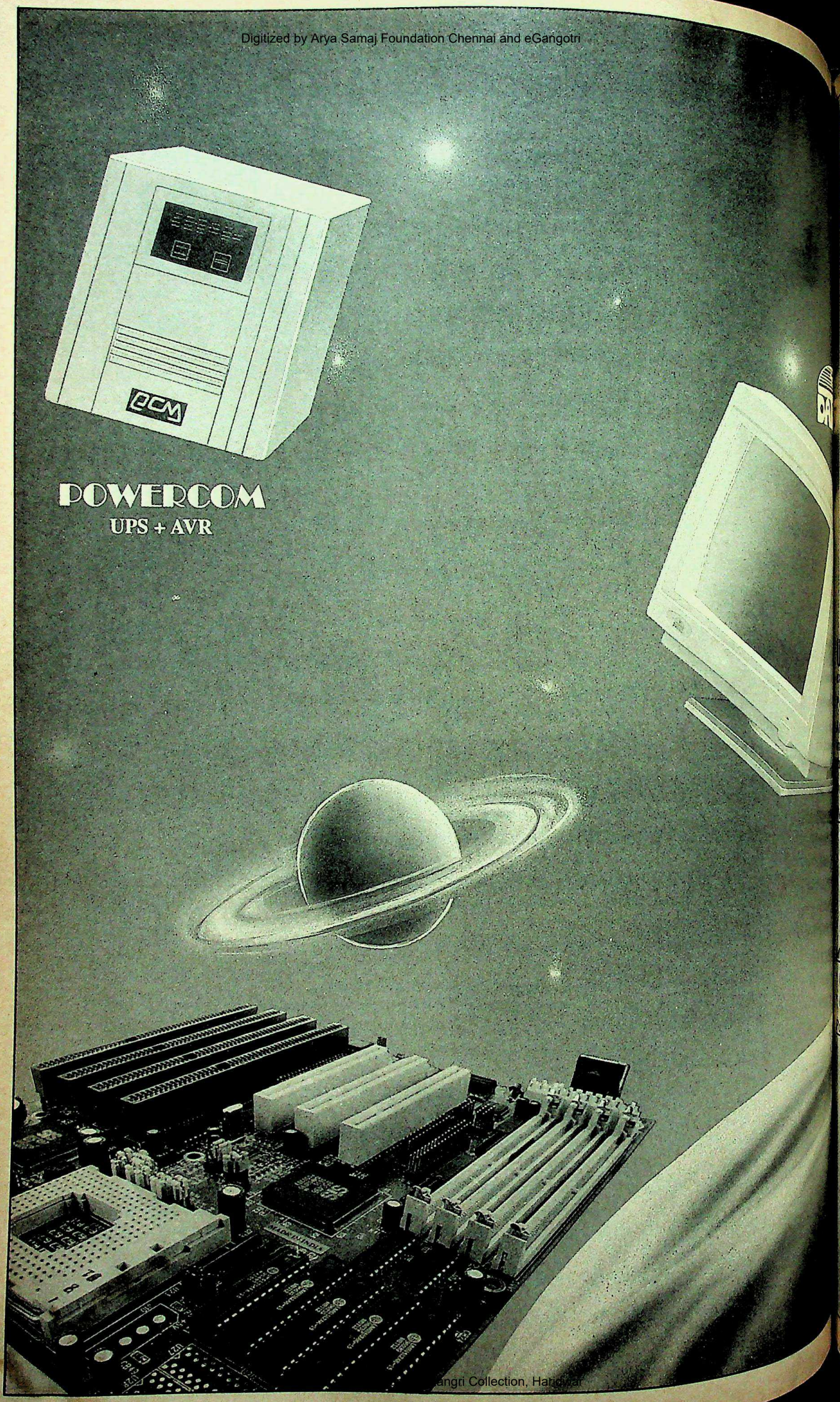
Manager Scheme management system for real estate. **Price:** Rs 12,000 **Vendor:** Wye Enterprises **RQS#** 71193

Package Integrated package covering all excise-related documents. **Price:** Rs 157,000 **Vendor:** PH Systems **RQS#** 71194

SOFTWARE
BUSINESS APPS

CC-0. Mumukshu Bhawan Varanasi Collection. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Gangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Discover the Kunhar galaxy of PC peripherals

and take off to new heights ... in reliability and support.

Welcome aboard ! Get ready for a voyage into the exciting world of Kunhar Peripherals.

Peripherals galore

At Kunhar our aim is to provide India's computer industry with world-class peripherals known for their highest performance and reliability.

Our product range includes :

Boards and Cards

- Pentium motherboards
- 486 PCI motherboards
- PCI VGA cards/Mpeg cards
- VGA cards
- Ethernet cards

Monitors

- DATAS SVGA Colour monitor
- DATAS SVGA Mono monitor

Power Conditioning - POWERCOM UPS

One of the top 7 UPSs in the world (Byte magazine, USA, Nov' 95 issue). Range from 250 VA to 10 KVA.

State-of-the-art manufacturing

Our 9000 sq. ft. factory near Pune is equipped with sophisticated manufacturing and testing equipment such as Yamaha Pick-And-Place machine, Minolta colour analyzer, E-SEHO wave soldering machine. Such emphasis on technology results in flawless products that work smoothly for years.

Support is our way of life

At Kunhar we offer you a support that is simply uncompromising. Our 7000 strong customer-base, enjoying on-site warranties, will happily bear a testimony to this. Besides, our hi-tech labs in Bombay and Pune are busy round the clock to ensure almost zero downtime.

Keeping you in step with the times

Our association with POWERCOM and DATAS enables us to bring you products that are the latest in technology, performance and aesthetics.

Contact KUNHAR today for your requirements of Boards, Monitors and UPS. Only together, we can bring a culture of reliability and support to India's computer industry.

KUNHAR PERIPHERALS PVT LTD

A-23, Shri Ram Ind. Est., 2/f, 13, G D Ambekar Road, Wadala, Mumbai - 400 031 India. Tel.: 413 04 42 , 4130646, Fax : 91-22-413 02 18
Factory : Gat No. 142/2/1, Dingraj Wadi,Koregaon Bhima, Taluka Shirur, Dist. Pune India. Tel : 02137-52519/52520, Fax : 91-02137-52520

DEALERSHIP ENQUIRIES SOLICITED

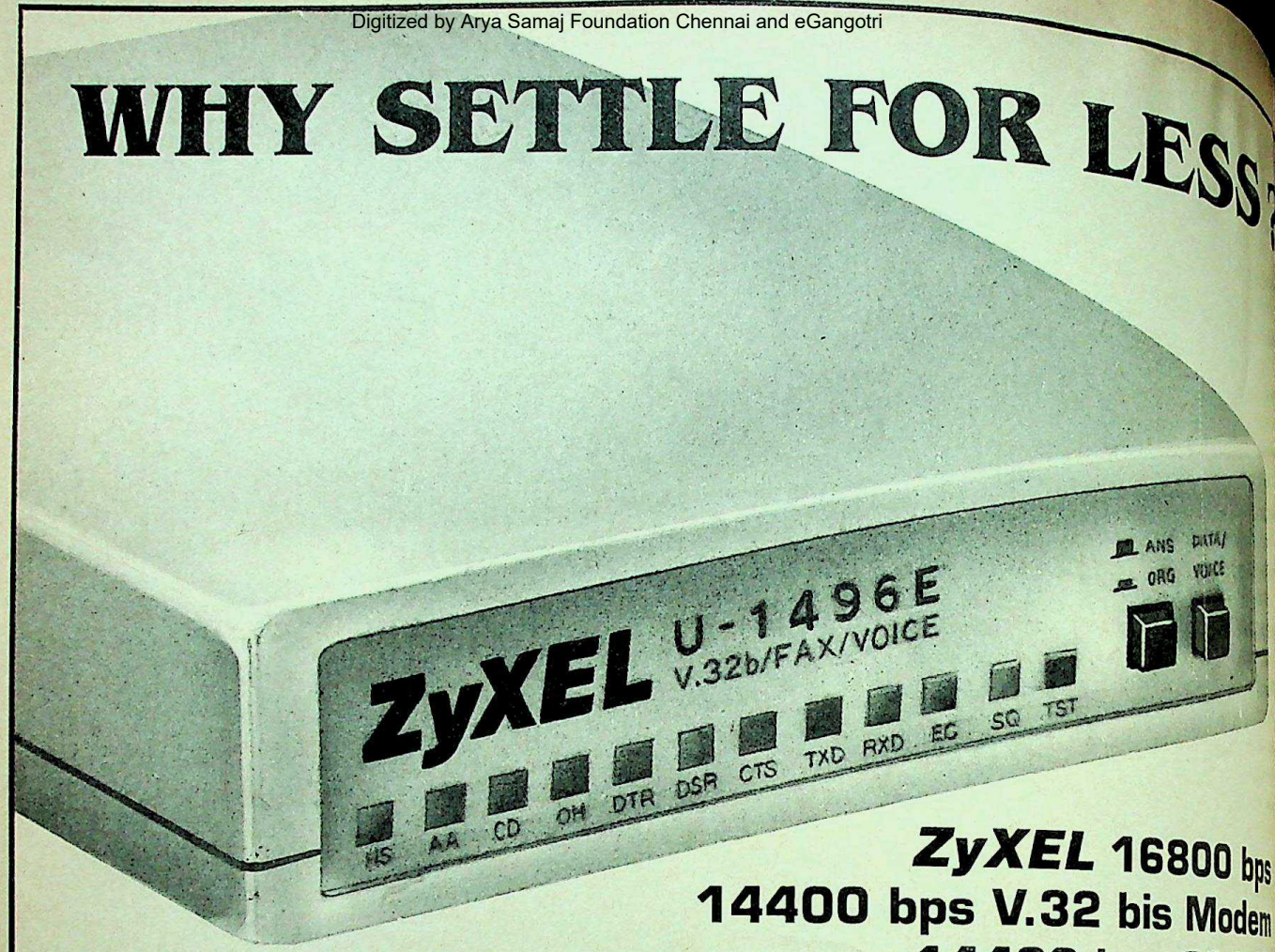
Because great performers need great support

Kriti 92/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHY SETTLE FOR LESS ?



ZyXEL 16800 bps
14400 bps V.32 bis Modem
14400 bps G3 FAX
Digitized Voice capability
Excellent for poor line conditions

EDITOR'S CHOICE · 1994 · PC QUEST

TEC Approved

TWO YEARS WARRANTY

PLUS MORE FEATURES :

- ***ZyXEL*** 16800 bps ultra high speed data transfer
- Automatic data / fax call detection
- Fast rate renegotiation in addition to Auto fall-forward / fall-back
- Special ***ZyXEL*** mode for lines with high impulse noise
- Line condition monitoring
- V.42 bis / MNP5 data compression with upto 57600 bps throughput
- V.42/MNP4 error control
- Asynchronous or synchronous
- Advanced voice mail capability - upto 1000 voice/fax mail boxes. Fax-on-Demand & Voice Announcements

Distributed & supported by:

WANLANd

231 Keytuo Industrial Estate, Kondivita Road, Andheri (East), Mumbai - 40
Tel : (022) 8353636, 8216733.Fax: (022) 8367765, (022) 3871790.
Email: wanland@giasbm01.vsnl.net.in

ZyXEL DEALERS :

● **Ahmedabad :** Karnet. Tel: (079) 7475244. ● **Baroda :** KAS On-line. Tel: (0265) 34
● **Calcutta :** Pharos Infotech: Tel: (033) 4667920. Fax: (033) 4667918. ● **Indore :** Orca
Computers. Tel: (0731) 533240. ● **Nagpur :** Netcom Systems. Tel: (0712) 543747.
Fax: (0712) 530497. ● **New Delhi :** Technoware Systems. Tel: (011) 6173861 / 6710
Fax: (011) 6173861. ● **Trivandrum :** Manickam Communication & Sys. P.Ltd.
Tel: (0471) 462116. Fax: (0471) 462116.

DEALER INQUIRIES FROM UNREPRESENTED AREAS SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ctive Secretary 2.20 Helps in label printing, letter writing and managing appointments, incoming messages etc. **Price:** Rs 1,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71195

Advance Payroll A comprehensive payroll management system. **Price:** Rs 400 **Vendor:** Kohli Software **RQS#** 71196

Executive Diary Productivity enhancement software, allows setting up daily appointments. Includes travel guide, info kit and astrologer. **Price:** Rs 250 **Vendor:** Kohli Software **RQS#** 71197

Investment Manager Portfolio manager to track shares for all companies and investors. Includes standard letters and trends. **Price:** Rs 250 **Vendor:** Kohli Software **RQS#** 71198

Inventory Control Production inventory system with all standard reports. **Price:** Rs 250 **Vendor:** Kohli Software **RQS#** 71199

doc Software for export documentation, advance licensing, vendor management and order processing. **Price:** Rs 8,000 **Vendor:** Radix Softwares Pvt Ltd **RQS#** 71200

Documentation System 2.10 Export documentation, invoicing and analysis, export costing, and cost simulation. **Price:** Rs 7,500 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71201

Management System 1.1 Assists in managing export processes through pre- and post-shipment documents. **Price:** Rs 36,000 **Vendor:** Chenab Information Technologies **RQS#** 71202

Fixed Deposit System Fixed deposit accounting system. **Price:** Rs 20,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 71203

Pay Payroll accounting package with leave register, PF register, multiple loan maintaining facilities. **Price:** Rs 6,900 **Vendor:** AB Computer Applications **RQS#** 71204

man 1.0 Comprises of deposit and loans modules with an integrated accounting module. **Price:** Rs 14,500..17,500 **Vendor:** Meeraa Systems **RQS#** 71205

sse Comprehensive software for finance companies. **Price:** Rs 40,000..70,000 **Vendor:** Softsolutions **RQS#** 71206

x 1.0 Designed for textile industries to manage accurate finance, user-defined invoice on pre-print/ plain-paper and inventory. **Price:** Rs 15,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 71207

s 1.0 TDS management software. Calculates and prints Form 16A, 26A and 26C on plain and pre-printed stationery. **Price:** Rs 1,200 **Vendor:** Saibex Network **RQS#** 71208

x 4.5 Integrated garment export management system for readymade garments, made-ups and textile exporters covering export order-processing, purchase, inventory, production quota, documentation, and samples. **Price:** Rs 35,000 **Vendor:** Optimal Computer Consultants Pvt Ltd **RQS#** 71209

al Inventory Control System CBSC-GIC 3.10 Provides order management, purchase and sales transactions, billing, valuation, sales analysis, and registers. **Price:** Rs 4,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 71210

Haztrac Hazop, FMEA, What-if and checklist recording. Has full database capability to track costs, priorities, resource assignment and progress reporting **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71211

Purchase Management System For automobile financing institutions. Also manages (optional) fixed deposit operations, automatic calculation and postings. **Price:** Rs 19,500..35,000 **Vendor:** Sam Computer Consultants **RQS#** 71212

ART 1.62D Modular multiple company business software. **Price:** NA **Vendor:** ADA Software & Services Pvt Ltd **RQS#** 71213

Finance Package Package for automation of operations for home finance companies. **Price:** Rs 40,000..70,000 **Vendor:** Softsolutions **RQS#** 71214

Comprehensive package for inter-branch reconciliation. **Price:** Rs 60,000 **Vendor:** Softsolutions **RQS#** 71215

Life Integrated business system catering to distribution and trading industry. **Price:** Rs 20,000 onwards **Vendor:** Zon Marketing **RQS#** 71216

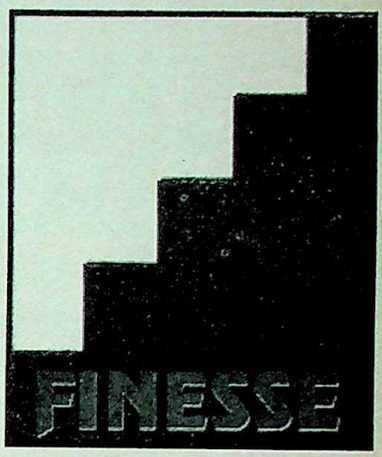
ventory control systems for small and medium companies with data security features. **Price:** Rs 0,999 **Vendor:** Bharat Computers **RQS#** 71217

ate Inventory control and management system that generates BOMs, receipts, issues, consumption, production reports etc. **Price:** Rs 5,000..7,500 **Vendor:** Automate Computer **RQS#** 71218

TA Inventory management system to maintain transactions, purchase order processing and follow-ups. **Price:** Rs 6,500 **Vendor:** Accountronics **RQS#** 71219

Share accounting system which handles transfers, splits, correspondence, dividends, and reports. **Price:** Rs 20,000 **Vendor:** Indosoft Services **RQS#** 71220

Management System A comprehensive package for bulk importers. **Price:** Rs 50,000 **Vendor:** Pragati Software Pvt Ltd **RQS#** 71221



With business software available for a range of specialzed users, solutions for finance companies are not far behind

SOFTWARE
BUSINESS APPS

CC-0. Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Intelligent Anti-Virus Toolki

STOP VIRUS BEFORE DOS

IAVT

Q : WHAT IS VIRTUAL INDICATOR ?

Ans : "Virtual Indicator" to stop virus before DOS
Ans : Stops even unknown boot viruses
Ans : Will stop boot viruses not even written as yet !
Ans : Security and protection of Hard Disk before DOS
Ans : Does not use any hard disk space
Ans : Leaves precious memory free and is not a TSR
Ans : VI protects the hard disk, even if CMOS is changed
Ans : Visual indicator for a healthy computer

ADVANTAGE

GENERIC SCANNER

STOP VIRUS BEFORE DOS

VIRTUAL INDICATOR (IBVC)

CLEAN WITHOUT CLEAN DOS

GENERIC BOOT/PARTITION VIRUS CLEANER

CLEAN MULTIPARTITE/POLYMORPHIC VIRUSES

CLEAN FILE VIRUSES WITHOUT DESTROYING FILES

STOP VIRUS WHILE COPYING/OPENING OF ANY FILE

100 % INDIAN & ONLINE UPDATES/SUPPORT AVAILABLE

INSTANT PROTECTION AGAINST INFECTIONS FROM FLOPPIES

Partial list of IAVT users

Delhi Stock Exchange
HCL-Frontline Limited
Singapore Airlines
TELCO
TATA Chemicals
Department of Telecommunica
Escorts Heart Institute
IIT, Delhi & Bombay
Voltas Limited
Blue Star Limited
BPL-Sanyo Limited
World Bank
All India Radio
Airport Authority of India
NASSCOM
BARC, Bombay
OXFAM
TATA Export Limited
Ministry of Defence, Sena Bha
Nuclear Power Corporation
RITES
Llyod Steel Limited
Hero Cycles Limited
Siemens Limited
Tata Liebert Limited
UNICEF

Protect Your Computer Intelligently

FEATURES	IAVT	RED ALERT	NASHOT
GENERIC B/P CLEANER	YES	NO	NO
GENERIC FILE SCANNER	YES	NO	NO
VIRTUAL INDICATOR (IBVC)	YES	NO	NO
CLEAN WITHOUT CLEAN DOS	YES	NO	NO
STOP VIRUS WHILE COPYING	YES	NO	NO
CLEAN FILE VIRUSES WITHOUT DESTROYING FILES	YES	NOT ALWAYS	NOT ALWAYS
THREE YEAR WARRANTY ON BOOT PATRTITION VIRUSES	YES	NO	NO
PRICE (In Rs.)	1888.00	3000.00	N/A

All names are property or copyright of their respective companies. The above comparison is between IAVT Ver 3.01, Red Alert Ver 4.0 & Nashot Ver 17.0

ANNUAL INTELLIGENT ANTI-VIRUS CON & DATACARE

Now, even greater protection than b
Yes, we at FGSL now offer professio
protection for your computer, agai
viruses and data losses around the
Contact for Annual IA
and DataCare contrac

Complete protection against Boot/Partition viruses on Windows 95 machines

FIFTH™ G.E.N.E.R.A.T.I.O.N

Practice safe SEX use US !!

Fifth Generation Software Lim

Corporate Office : 140, Zamrudpur, Nehru Mkt, Opp. LSR College, New Delhi - 48 Phone : 6452200, 01, 02, 03
Regd. Off. : 5, Ashoka Park, Rohtak Road, Delhi - 35. Ph : 5103299, 5458018, Mumbai : Raj Villa 2, Outpost Military Camp, Vakola, Santa Cruz (E), Mumbai - 4
Ahmedabad : A/3-4, Sakal Apartments, Opposite Naranpura P.O., A'bad - 380013 Ph : 7410232, Secunderabad : 95C, Siddamsetty Complex, Park Lane, S'bad - 53
North India Distributor (Delhi) : VINCOM - 6926888, NOW !! Also available at : HCL-Frontline Super Store : Madras - 8231662, 8231663, Bhopal -
Ahmedabad : Gunjan Enterprise - 5359160, Amritsar : Computer Associates - 228769, Bangalore : Namratha Electronic Centre - 6619116, Bhopal -
Mumbai : Gem Elecomp - (0251)-471322, Gripp Computer Services - 5341301, H.T.P. Systems - 8729989, Micro-Tech Enterprises - 5426728, Sarath Chemicals -
Answar Software Solution - 711-474447, Calcutta : Jain Computech - 2394374, Lalani International - 260441, 260442, 264819, Delhi : Aman Enterprises -
Antriksh Computer - 3286633, BPB Publications - 3325760, Computer Zone - 6227037, Computer Prof's - 6449960, First Computers - 2415743, Lotus Electronics -
Omniscent Computers - 5731185, P. K. Traders - 5550656, Shivom Computers - 5512815, Softman Computers - 6483376, Vimana Enterprises -
Goa (Mapusa) : Spectrum Software & Services - 250405, Hyderabad : NetCom - 547618, Wisdom Marketing - 314338, 317789, Indore : M. K. Electronics -
Jabalpur : The Computer Shoppe - 391102, Jaipur : MicroPlus Computers - 304800, Computer Jyoti - 514107, Jalandhar : Software Engineering -
Lucknow : Rakshit Computers - 240895, The Professional Group - 78313, Madras : Devraj Computers - 8525856, Moradabad : Computer Point -
Patna : Shree Sati Computers-659806, Surat : Nemji Services-426484, Vapi : Dynamic Computers-32645, Varanasi : Binary Information -
Vijaywada : Andhra Computer Services - 431707, Unics Computer enterprises - 66936, 75064, 75034, Dhruva Systems - 477414, Vishakhapatnam :

DEALERS/DISTRIBUTORS ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Ledger User-friendly inventory management software for leather goods manufacturers. **Price:** Rs 12,000..17,000 **Vendor:** Softsolutions **RQS#** 71222

Restaurant Keeper DOS-based point-of-sale package for restaurants and fast food outlets. **Price:** Rs 12,500..25,000 **Vendor:** Gentech Business Machines Ltd **RQS#** 71223

Integrated Business Management System Customizable FA, payroll, inventory sales accounting package. **Price:** Rs 99,950 **Vendor:** Bitech (Bhari Information Technology Systems Pvt Ltd) **RQS#** 71224

Integrated FA-Fixed Deposit System Handles scheme based deposits, tax and broker details with cash flow, bank recociliation and budget analysis. **Price:** Rs 34,950 **Vendor:** Bitech (Bhari Information Technology Systems Pvt Ltd) **RQS#** 71225

Integrated Share-Debenture Transfer System Transfers, change of address, split/consolidation of certificates, all statutory reports. **Price:** Rs 27,000..42,000 **Vendor:** RDK Compu Data Techniks **RQS#** 71226

Integrated Standard Banking System A comprehensive package for bank automation. **Price:** Rs 350,000 **Vendor:** Tata Consultancy Services **RQS#** 71227

Integrated System for Non Banking Finance Company Takes care of leasing, hire-purchase, bill discounting, inter-corporate deposits, car/consumer financing. **Price:** Rs 225,000 **Vendor:** RDK Compu Data Techniks **RQS#** 71228

Invogrus Windows based system for fast moving consumer goods companies. Includes a query builder, GIS and OLE links to Word and Excel. Output can be viewed as charts/graphs. **Price:** Rs 135,000 **Vendor:** Interactive VITA Pvt Ltd **RQS#** 71229

Inventory Management Pack Collection of shareware for inventory management. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71230

Inventory Management System Inventory management system with all the relevant queries and reports. **Price:** Rs 12,000 **Vendor:** Winners Commuter Services **RQS#** 71231

Invoicing Generating customized invoices on both preprinted and plain paper. Also generates reminders, customer product and invoice testings and sales registers. **Price:** Rs 2,500 **Vendor:** Navrang Software **RQS#** 71232

IRA 3.0 Information retrieval package. Supports over 30 word processors. **Price:** Rs 16,000..18,000 **Vendor:** Stride Systems **RQS#** 71233

JAMAR Package for managing annual miantenance contract information. Many reports, online query and help. **Price:** Rs 7,500 **Vendor:** Sacred Step Data Network & Infotech Ltd **RQS#** 71234

JOBMATS Production oriented materials management software. **Price:** Rs 25,000..45,000 **Vendor:** Koral Projects Consultancy Pvt Ltd **RQS#** 71235

Jobplay 2.00 Office automation software designed for traders. **Price:** Rs 7,500 **Vendor:** Integrated Consultants **RQS#** 71236

Project Manager for Windows Allows you to keep tabs on the whole project while tracking various activities. Includes calendar, timeline, graph, and browser. **Price:** Rs 8,000 **Vendor:** Alpine Automation **RQS#** 71237

Forms for DOS/Windows Front-end to create fillable forms and export data collected to dBASE. **Price:** Rs 4,950 **Vendor:** Alpine Automation **RQS#** 71238

Kilburn Preparation of invoices suitable for manufacturers, traders and professionals. **Price:** Rs 1,500 **Vendor:** Kilburn Electronics **RQS#** 71239

Leasepack Leasing and hire package system. **Price:** Rs 20,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 71240

Leasepack Automates operations of a leasing/hire purchase company and generates comprehensive reports. **Price:** Rs 7,000 **Vendor:** Software & Consultancy Services **RQS#** 71241

Letter Wizard Helps with business letters. **Price:** Rs 749..799 **Vendor:** Unique Business Solutions **RQS#** 71242

MEDIMAK Billing, stock control, and FA package for retail drug stores. **Price:** Rs 15,000 **Vendor:** Delta Computers Pvt Ltd **RQS#** 71243

MEDSAM 2.0 Comes with point-of-sale, inventory and FA modules for departmental stores, supermarkets and defence canteens. **Price:** Rs 60,000 **Vendor:** Processware Systems Pvt Ltd **RQS#** 71244

MFDS 1.0 Fixed deposit system that handles renewals, interest calculations and payments, and multi-company processing. **Price:** Rs 20,000 **Vendor:** IICP **RQS#** 71245

MPAY 1.0 Software for personnel department. Processes salary, earning and deductions, loan and advance, and leave encashment. Generates MIS and statutory reports. **Price:** Rs 20,000 **Vendor:** IICP **RQS#** 71246

Project Project management software with wizards to help users plan and design projects. **Price:** Rs 15,000 **Vendor:** Beta Information Technologies **RQS#** 71247

Project management software lets you effectively track the many elements of a project, however big or small

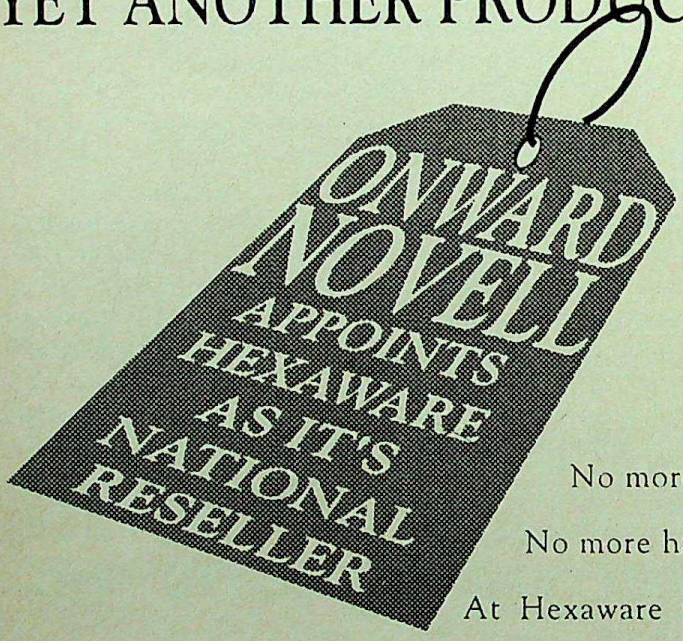
SOFTWARE BUSINESS APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE CLIENT SERVER SUPERMARKET ADDS

YET ANOTHER PRODUCT LEADER TO ITS LIST.



No more frustrating shopping in bits and pieces.

No more having to settle for below par substitutes.

At Hexaware we offer you the full range of top-of-the-line client/server products.

Operating Systems, Database Management Systems and Front-End Tools.

And now Networking products from Novell.

So get in touch with the Hexaware Client/Server Supermarket for a comprehensive range of state-of-the-art products at competitive prices.

"INTRODUCTORY OFFER:
NOVELL NETWARE +
ORACLE WORKGROUP 2000
5 USERS EACH,
AT RS. 79000/-"

HEXAWARE INFOSYSTEMS LIMITED

Leave nothing to chance

Mumbai: Elite Auto House, 54 A, Sir M. Vasanji Rd., Andheri (E), Mumbai 400 093. Tel.: 834 5523/838 9831-36 Fax.: 837 6293 **Delhi:** C-27, Basement (Shopping Complex, Opp. Moolchand Hospital, Defence Colony, New Delhi 110 024. Tel.: 011-464 7833 Fax.: 011-464 8637. **Calcutta:** Centre Point, 6th fl., Room No. 601, 28/2, Shakespeare Sarani, Calcutta 700 071. Tel.: 033-240 5128 Fax.: 033-240 5086. **Bangalore:** 6th fl., C Wing, Mittal Towers, 44-827 0820, 044-827 M. G. Rd., Bangalore 560 001. Tel.: 080-559 9289 Fax.: 080-559 9287. **Madras:** IInd. fl., 64, Cathedral Rd., Madras 600 086. Tel.: 044-827 0820, 044-827 6446 Fax.: 044-827 0820. **Pune:** 1st. fl., D-Block, Veer Savarkar Udyog Bhavan, Next to Bal Gandharva, Shivajinagar, Pune 411 005. 0212-32 Fax.: 0212-32 3413. **Baroda:** Suraj Plaza No. 2, 8th fl., Sayaji Ganj, Baroda 390 005 Tel.: 0265-34 2271(D), 33 0828/0335, 34 2272/2273. Fax.: 0265-34 **Hyderabad:** 3-6-354/E, 3rd fl., Above Shanbagh Hotel, Basheer Bagh, Hyderabad 500 029. Tel.: 040-23 5035/24 1163. Fax.: 040-59 9839.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Material Management System Automates material resource planning, vendor analysis, purchase order monitoring etc. **Price:** Rs 40,000 **Vendor:** Ravichandra Systems & Computer Services Ltd **RQS#** 71249

Material Master 3.0 Inventory management system for maintaining information on stocks, track demand processing and stock value. **Price:** Rs 19,000 **Vendor:** Processware Systems **RQS#** 71250

Material Requirement Planning System with F.A. Well suited for manufacturing companies. **Price:** Rs 700,000 **Vendor:** Gurjar Computing **RQS#** 71251

Micro Bill Automates tedious bill/invoice, printing jobs. Eliminates repetitive manual entry of details. **Price:** Rs 12,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71252

Micro Cheque Printing Features one-time entry of client data for automatic printing of multiple or single cheques. **Price:** Rs 5,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71253

Micro Co-Op A comprehensive software for co-operative and housing societies. Generates bills, receipts, and defaulter lists. **Price:** Rs 10,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71254

Micro Inventory Inventory management system which monitors stock data from receipt of goods to finished products. **Price:** Rs 25,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71255

Micro Membership Monitoring Manages institutional membership details of members. **Price:** Rs 25,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71256

Micro Office Monitors office mail using file-cabinet analogy, generates MIS reports and pre-defined reminder formats for follow-up. Includes utilities such as notepad, appointment scheduler, and phone-book. **Price:** Rs 30,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71257

Micro Payroll Helps to reduce payroll bottlenecks, eliminates human errors and delays. Generates MIS reports for better HRD and financial control. **Price:** Rs 55,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71258

Micro Sales Monitoring Designed to make your sales force more effective. **Price:** Rs 25,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 71259

Mi Soft Real Estate Package 7A Real estate package for tracking customers and properties they have rented or bought. **Price:** Rs 7,000 **Vendor:** Centura Compaware **RQS#** 71260

Miracle Manufacturing software with modules for accounting, inventory, invoicing, production planning and control, and bill of material. **Price:** Rs 50,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 71261

Moneyman BDS Helps manage a bill discounting business. Provides discounting limits, discounting and rediscounting deals, margin, etc. **Price:** Rs 19,900 **Vendor:** SB Management Consultants **RQS#** 71262

Moneyman FAS Provides branches, cost centers, budgets and other accounting reports. **Price:** Rs 19,900 **Vendor:** SB Management Consultants **RQS#** 71263

Moneyman HMS Helps manage a hire purchase business. Provides rentals, security deposit, installment bills, outstanding, etc. **Price:** Rs 19,900 **Vendor:** SB Management Consultants **RQS#** 71264

Moneyman ICDS Helps manage Intercorporate lending and borrowing. **Price:** Rs 19,900 **Vendor:** SB Management Consultants **RQS#** 71265

Moneyman LMS Helps manage a leasing business. Provides IRR, rentals, security deposit, PDCs, installments bills, outstanding, etc. **Price:** Rs 19,900 **Vendor:** SB Management Consultants **RQS#** 71266

Mord 1 Multi-company order processing system. Includes delivery, invoice generation, and user definable taxes. **Price:** Rs 10,000 **Vendor:** Ripple Software Group **RQS#** 71267

Mr Agent Billing software for newspaper agents. Maintains daily rate of purchase, sales and waste paper. **Price:** Rs 12,500 **Vendor:** Trisira Mindware **RQS#** 71268

MS Accounting, inventory, invoice, payroll, word processing and time management modules. One or more modules can be combined. **Price:** Rs 12,000..49,500 **Vendor:** Malpani Soft Pvt Ltd **RQS#** 71269

MS Order management system for sales tracking, purchase orders by customers/suppliers, and orders and challans. **Price:** Rs 4,990 **Vendor:** Link Point Computers **RQS#** 71270

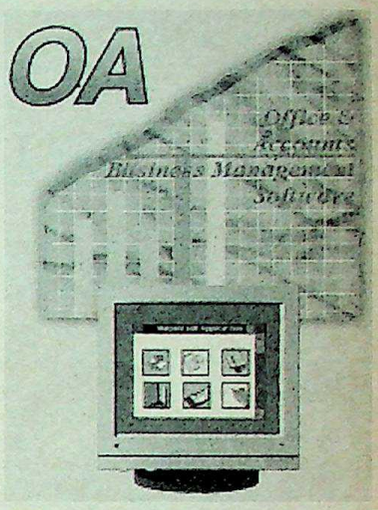
Mycus-E Package for manufacturing organizations. Includes MRP costing, production planning, and inventory. **Price:** Rs 250,000 **Vendor:** Digita Systems & Software **RQS#** 71271

Nine Integrated Software For non-banking finance companies. **Price:** Rs 700,000 **Vendor:** Softek **RQS#** 71272

Nirvana Processing Code-based package for invoice preparation. Generates various reports and MIS information. **Price:** Rs 6,000 **Vendor:** Navrang Software **RQS#** 71273

Nucleus 2.00 Payroll automation software with graphical interface and three-level password protection. **Price:** Rs 7,000 **Vendor:** Ultimedia System Associates **RQS#** 71274

Office Software for management of sales and other registers, forms and source codes. **Price:** Rs 7,500 **Vendor:** Sri Bhuwan Computers **RQS#** 71275



With so many business packages in existence, some put in innovative touches such as a time management module and a word processor

SOFTWARE BUSINESS APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YOU NEEDN'T TAKE ANYONE'S WORD ON HOW GOOD PRO-FIT IS.

CHECK IT OUT FOR YOURSELF

"Flexibility is the middle name for Pro-FIT". "A Pro-FITable FA package... Surprisingly, Pro-FIT from **BLUECHIP SOLUTIONS**, is one package that lives up to its claims."

BUSINESS COMPUTERS

"Innovations in Financial accounting packages usually come in small increments. Not so with Pro-FIT from **Bluechip Solutions**. The package is packed with never seen before features which literally throw away the rule book by which FA packages are written. In fact, calling these innovations as features is a little unfair since they are closer to new concepts than features."

PC QUEST.

"Pro-FIT is one of the Best selling FA software.

COMPUTER TODAY

"...I would like to go a step further and say that Pro-FIT goes beyond Financial Accounting . The product developers need to be given credit for their innovative approach in developing the MIS tree."

SOFTWARE REVIEW

"All in all Pro-FIT is an excellent package, particularly well suited to those with strong MIS analysis."

P.C. QUEST

"The package fully lives up to its tag line - A Generation Ahead." "There is no feature or report that you cannot obtain from the package." "Inventory is a pleasure to work with."

P.C. QUEST

BLUECHIP SOLUTIONS

BLUECHIP SOLUTIONS PVT. LTD.
1012, 'AKSHAYA', 26th Main,
4th 'T' Block, Jayanagar,
Bangalore-560 041. INDIA.
TEL: (080) 663 7930, 665 0107.

U.A.E.: Al Amiri Group of Companies - Ph: 00971-6 366687 **Colombo:** Micro Touch Software Services, Ph: 00971 - 445140, 336141 **Andhra Pradesh:** * Bluechip Solutions (P) Ltd., Ph: (040) 3748177 * Computer Integrated Services - Hyderabad Ph: (040) 233386 * Innovative Information Technology, Vishakapatnam Ph: (0891) 545081 **Gujarat:** * Magnet Consultancy Services, Ahmedabad Ph: (0272) 491195 * Asha Computers, Baroda Ph: (02651) 341613, 4375475 * Mangalya Computer Systems, Ahmedabad Ph: (0272) 444318 **Goa:** * Nuvel Investment & Management Services, Ph: (0834) 511599 * Professional Computer Systems, Ph: (0834) 225323 Goa. **Karnataka:** Bangalore : Swarnaretha Enterprises, Ph: 6650006 * Mamta Systems (India) (P)Ltd., Ph: 5588333 * Streamline Consultants, Ph: 5599439, * Adspark Advertising (P) Ltd., (Kirloskar Dimensions (P) Ltd.) Ph: 3345944, 3318717, 3349834 * Jyothi Infosys Bellary Ph: (08392) 76073, 77592, 75179 * Interface Integrated Technologies, Hassan Ph: 69688, 65414 * Online Computers, Hubli Ph: (0836) 66454, 322114, * Indus Computer Systems Mangalore Ph: (0824) 441824 **Kerala:** * Compact Infosys, Cochin Ph: (0484) 364244, 372382 **Maharashtra:** * Bluechip Solutions (P) Ltd., - Bombay Ph: (022) 6713050 Thanks Coimbatore * Apex Computer Links, Ph: (0422) 436052 PP * Algosys Automation, Ph: (0422) 439079, * Sun Computers, Ph: (0422) 432976 * Bluechip Solutions (P) Ltd., - Mandara Pune Ph: (0424) 4951684 * Bluechip Marketing - Madurai Ph: (0452) 36691 * Hi-Tech Computers Centre, Tuticorin Ph: (0461) 21314 * Bits & Bytes, Hosur Ph: (04344) 70208 * Syskey Computer Services, Erode Ph: (0424) 212075, 219224 * Vijay Softwares Enterprises, Trichy Ph: (0431) 28065 * Selsoft Computers, Tirupur Ph: (0421) 700284 **W.Bengal:** * Macro Systems, Calcutta Ph: (033) 291223

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

1.0 Has user-defined payroll heads and calculation algorithms. Also accomodates leave management rules. **Price:** Rs 26,500 **Vendor:** Access Computech Pvt Ltd **RQS#** 71276

2.0 Comprehensive software for large inventory BVR production industries. **Price:** Rs 30,000..75,000 **Vendor:** Processware Systems **RQS#** 71277

Software Package 2.0 An (invisible) total secretary. **Price:** Rs 2,700 **Vendor:** Manhar Software Quest Pvt Ltd **RQS#** 71278

Integrated package for order and sales analysis. Has financial and stocks module. **Price:** Rs 11,000 **Vendor:** Spring Time Softwares Pvt Ltd **RQS#** 71279

han Ver.1.00 Software package for garment exporters. Takes care of complete production planning and inventory control. **Price:** Rs 12,500 **Vendor:** Integrated Consultants **RQS#** 71280

Master For pawn brokers to track customers, pawned items, loans given and repayment schedules, interest calculation and auction notices. **Price:** Rs 6,500 **Vendor:** Cadus International **RQS#** 71281

Mate Payroll package which maintains periodic reports for PF/FPF, ESIC, Income Tax, and overtime. **Price:** Rs 5,000 **Vendor:** Automate Computer **RQS#** 71282

aster 3.0 Payroll accounting system to track employee information and maintains monthly and annual payrolls. **Price:** Rs 5,000 **Vendor:** Processware Systems **RQS#** 71283

ack Payroll maintenance and reporting system. **Price:** Rs 5,500 **Vendor:** Accountronics **RQS#** 71284

ket Personnel manager with user definable parameters for salary/wages, allowances and other deductions. **Price:** Rs 7,000 **Vendor:** Kruti Systems **RQS#** 71285

ll Software to track employee details, leaves, public holidays, loans, bonus, pay-slip generation, PF and tax register. **Price:** Rs 5,000 **Vendor:** Syscon Computers Pvt Ltd **RQS#** 71286

ll Employee record and salary calculations program for multiple branches/departments. **Price:** Rs 10,000 **Vendor:** Trisira Mindware **RQS#** 71287

ll Industry wise compatibility with support of ID card. **Price:** Rs 7,500 **Vendor:** Mangalya Soft-Tech Ltd **RQS#** 71288

ll Management System Payroll software. **Price:** Rs 5,500 **Vendor:** Winners Commuter Services **RQS#** 71289

ll System Automates month-end attendance, payroll, bonus, OT, loan calculations, salary sheet generation, and income-tax projections. **Price:** NA **Vendor:** Chenab Information Technologies **RQS#** 71290

ll System (PR-96) Generates payslips and other reports of salary, leave status, and overtime. **Price:** Rs 2,500 **Vendor:** Landmark Software **RQS#** 71291

ct Bankco Back office bank accounting software to take care of accounts, loans and shares. **Price:** Rs 151,000 **Vendor:** Gold Strokes Computers Pvt Ltd **RQS#** 71292

nal Secretary 2.0 Manages correspondence, addresses, and appointments. **Price:** Rs 2,700 **Vendor:** Somay Systems **RQS#** 71293

nnel Attendance Register Personnel management system that handles shift working, and multiple entries and exits. **Price:** Rs 8,000 **Vendor:** Sacred Step Data Network & Infotech Ltd **RQS#** 71294

nnel Data Management System helps maintaining personal and business information with property documents. **Price:** Rs 3,750 **Vendor:** Sacred Step Data Network & Infotech Ltd **RQS#** 71295

Cash System System for controlling cash receipt, payment, advance entries. Generates petty cash register and expense statements. **Price:** Rs 1,000 **Vendor:** Landmark Software **RQS#** 71296

rist 1.0 Inventory control system for medical wholesalers. **Price:** Rs 15,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 71297

t Of Sale System Generates invoices at the point-of-sale, as well as updates the inventory and financial accounting systems. **Price:** Rs 12,000 **Vendor:** Softchip Consultants **RQS#** 71298

-of-Sales System Front and back office retail software system for wholesalers and retailers with multi-branch companies. Modules—stock, sales, network, database and accounts managers. **Price:** Rs 13,000 **Vendor:** Mangalya Soft-Tech Ltd **RQS#** 71299

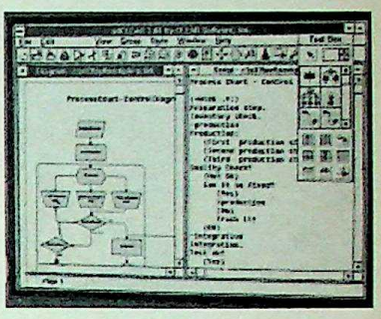
tor 200 Software for finite capacity scheduling with advanced project management functions. **Price:** Rs 300,000 **Vendor:** Abcon Information Systems **RQS#** 71300

ect 1.1 Takes care of fee transactions in schools, fee collection and receipts. **Price:** Rs 6,000 **Vendor:** Ripple Software Group **RQS#** 71301

uction Planning And Scheduling Monitors capacities of different plants for various product mixes. **Price:** NA **Vendor:** BIT Computers **RQS#** 71302

ine Bill Of Materials Software for producing BOMs. **Price:** Rs 13,000..19,500 **Vendor:** Decision Software India **RQS#** 71303

ine Distribution Management Specialized software for distributors, dealers and wholesalers. **Price:** Rs 30,000..70,000 **Vendor:** Decision Software India **RQS#** 71304



Friendly drag-and-drop flowcharting apps have made it easier to plan business and production processes

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Better Quality need not be expensi

RANK DATA PRODUCTS offers

COMPUTER PERIPHERALS & SPARE PARTS AT ATTRACTIVE PRICES

Motherboards	: 486 VL Bus & PCI Bus Pentium P60 & P75 - 200Mhz
Keyboards	: Turbo 102 Keys Membrane Keyboard.
Power Supply	: VIP - 230W PS/2 Type for 486, Pentium & Multimedia Machines
CD - ROM Drives	: 4Xi & 6Xi NEC
Sound Cards	: Opti & ESS Full Duplex & PNP Cards.
Multi-media Kits	: Harmony & VIP
Printer Spares	: Original spares for Epson Printers, i.e. Head Cables, Gear Assy, Motors etc.
Printer Heads	: Epson FX 105, FX 1050, DEC & IBM Printers
CD ROM Writer Kit	: Panasonic CW-7501B with SCSI Card.

ALSO, DATA SWITCHES, CPU COOLING FAN ETC.

RANK DATA PRODUCTS

11-A, RAMKRISHNA BUILDING, CHUNAM LANE, LAMINGTON ROAD, MUMBAI - 400007. TEL.: 3873168 / 3876486 / 3850069. FAX: (022) 3866308

DEALER ENQUIRIES WELCOME.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Honey, I shrunk the DATAQUEST TOP 20s!

DATAQUEST TOP 20 OF 1995 & 1996 IN JUST ONE CD! YOURS ABSOLUTELY FREE!

DATAQUEST TOP 20

DATAQUEST team now brings for you the complete data from the TOP 20 issues of 1995 and 1996 in one single CD ROM. And can be yours free with the third issue of DATAQUEST TOP 20, 1996, Volume 3 - that's the August first issue. This means you have in your possession the complete information on the way the industry moved over the last two years: how the top 20 companies performed vis a vis others. In a nut-shell, you can have the dynamic analysis of the IT industry!

If you are not a subscriber, shouldn't you be buying your very own copy of DATAQUEST TOP 20, August 1996 issue?

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

We don't promise return-tickets for going to

Nepal through us.

We can only promise returns on investment.

Today Nepal is a booming multi-crore I.T. market. A market that's being eyed upon by transnational and major Indian companies alike. For hardware and software. Networking and AMCs. Peripherals and Training. Today it makes perfect sense to be in Nepal. *And PC Quest, with its experience, focus and approach, is all set to take you there.*

THE PERSONAL COMPUTING MAGAZINE

PC QUEST NEPAL

Your ideal route to I.T. Nepal.

TO BOOK YOUR ADVERTISEMENTS CONTACT ANY OF THE FOLLOWING:

DELHI RACHNA: PH. 6416315, 6476664 FAX. 6411692; **BANGALORE** BHAUMIK: PH. 2861511, 2868233 FAX. 2862971; **MUMBAI** CHANDAN: PH. 6427910, 6450050/51 FAX. 6403986; **MADRAS** ANIL: PH. 459498 FAX. [illegible] **HYDERABAD** KRISHNA: PH. 848101 FAX. 816960; **CALCUTTA** PARTHA: PH. 2471285, 406492 FAX. 24[illegible]

CC-0. Panini Kanya Maha Vidyalaya Collection. Harayana.

Digitized by Arya Samaj Foundation Chennai and eGangotri

Inventory Control System for stock keeping, valuation and monitoring. **Price:** Rs 8,000..11,500 **Vendor:** Decision Software India **RQS#** 71305

Payroll Payroll management system **Price:** Rs 3,500..5,000 **Vendor:** Decision Software India **RQS#** 71306

Retail Business Management Integrated online system for managing retail businesses. **Price:** Rs 22,000..52,000 **Vendor:** Decision Software India **RQS#** 71307

Sales Invoicing Menu-driven system for sales billing, monitoring receivables and generating sales tax statements. **Price:** Rs 8,000..11,500 **Vendor:** Decision Software India **RQS#** 71308

Sales Order Processing Menu-driven system for sales order processing. **Price:** Rs 5,000..7,500 **Vendor:** Decision Software India **RQS#** 71309

Monitoring Accounting Systems Helps in material resource planning, purchase order monitoring, inventory controls etc. **Price:** Rs 30,000 **Vendor:** Ravichandra Systems & Computer Services Ltd **RQS#** 71310

Order Allocates receipts, prints purchase orders and generates pending order schedules. **Price:** Rs 1,000 **Vendor:** Landmark Software **RQS#** 71311

2.3 Multibranch payroll processing package. Includes customizable paysheet, standard reports etc. **Price:** Rs 10,000 **Vendor:** Ripple Software Group **RQS#** 71312

FDR Takes care of fixed deposits received, falling-due, repayments, loans against FDRS, interest calculations, brokerage, etc. **Price:** Rs 27,000..42,000 **Vendor:** RDK Compu Data Techniks **RQS#** 71313

Specifically designed for finance companies. **Price:** Rs 25,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 71314

Marketing Set 2.0 Handles follow-ups, quotations, sales performance and other marketing functions. **Price:** Rs 2,900 **Vendor:** Raychan Sysmatics **RQS#** 71315

Facts Includes accounting, inventory, sales and purchase ordering systems. **Price:** Rs 18,000..30,000 **Vendor:** Brainwave Computer Systems **RQS#** 71316

Property Management System Helps maintaining records of tenants, monitors collection of rent and dues. **Price:** Rs 2,500 **Vendor:** Creative Computer Services **RQS#** 71317

1.0 Integrated package with purchase, bills, inventory, financial accounting, etc. **Price:** Rs 22,000 **Vendor:** Indiana Software Labs **RQS#** 71318

2.0 Inventory control and invoicing system with modules like vendor maintenance and control checks. **Price:** Rs 18,000 **Vendor:** Ripple Software Group **RQS#** 71319

LL Invoice documentation and sales analysis system. **Price:** Rs 8,000 **Vendor:** Accountronics **RQS#** 71320

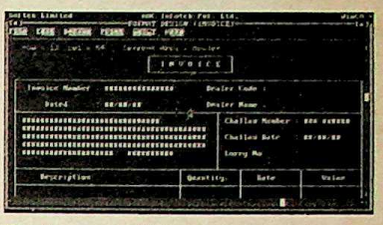
2.0 Invoicing system for sales department. **Price:** Rs 3,000 **Vendor:** Jayanti Graphics Pvt Ltd **RQS#** 71321

2.0 Inventory system for stores. Eliminates transition lag between manual book-keeping and online entry. **Price:** Rs 3,000 **Vendor:** Jayanti Graphics Pvt Ltd **RQS#** 71322

Sales invoice and order processing package which produces various types of analysis. **Price:** Rs 5,000..7,500 **Vendor:** Automate Computer **RQS#** 71323

And Distribution Package A comprehensive package for bulk distributors. **Price:** Rs 20,000 **Vendor:** Ravichandra Systems & Computer Services Ltd **RQS#** 71324

Manager Software for planning sales, expediting supplies, following up on delivery and analysing performance. **Price:** Rs 7,500 **Vendor:** Brainwave (India) Pvt Ltd **RQS#** 71325



Features such as on-screen form painters make many business packages easy to customize

SOFTWARE BUSINESS APPS

GET AN INTERNATIONAL B.TECH. DEGREE* WITHOUT LEAVING *India.*

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

*Degrees will be awarded directly from The Open University.
Students will also get diplomas from Aptech.

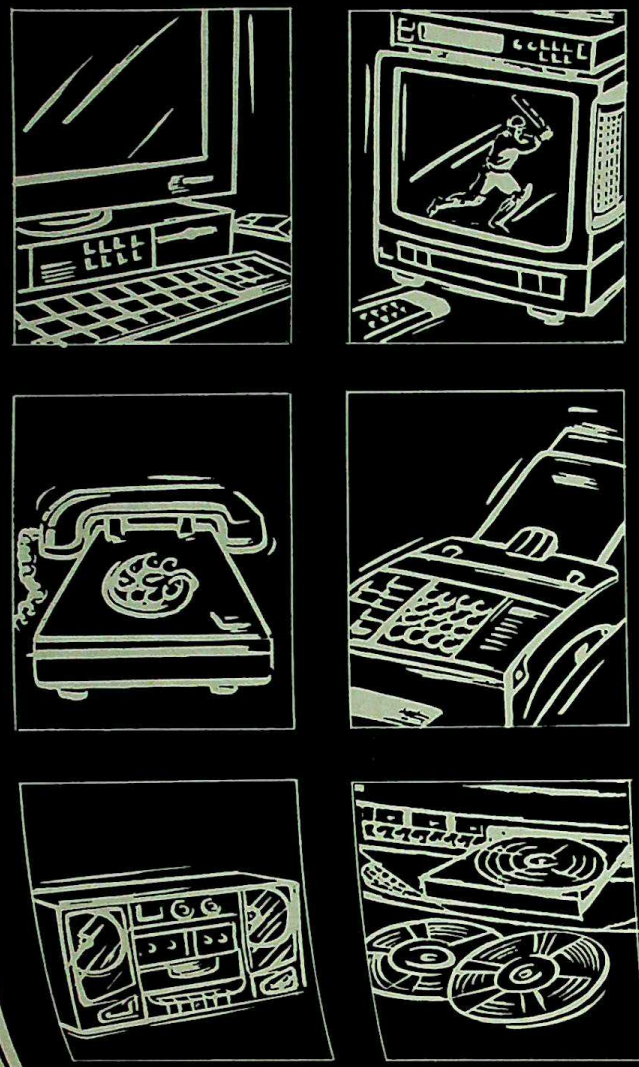
INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

APTECH COMPUTER EDUCATION We *change* lives

OVERTURE (AIL-237/96)

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Kangri Collection, Haridwar

MINICOMP

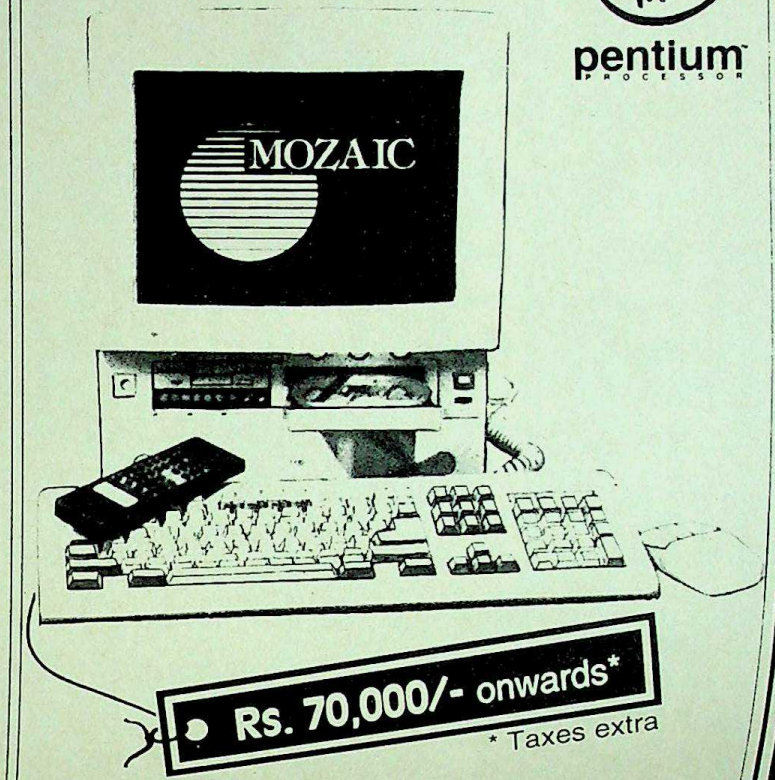


All These

PENTIUM-BASED
COMPUTER SYSTEM.
MULTI-CHANNEL
COLOUR TV.
CORDLESS REMOTE.
INTERNET-READY
MODEM.
VOICE MAIL.
HANDS-FREE
SPEAKERPHONE.
CALLER-
IDENTIFICATION.
PROGRAMMED
DIALLING.
AUDIO/VIDEO/DATA
CD PLAYER.
MPC 2 16-BIT SOUND
SYSTEM.
G3 FAX (14.4KBPS).
FAX-ON-DEMAND.
FAX FORWARDING.

In This

intel inside
pentium
PROCESSOR



Rs. 70,000/- onwards*
* Taxes extra

from

MINICOMP
Mktg. Off :
23-A, Shah Industrial Estate,
Off Veera Desai Road, Andheri (W),
Bombay 400 053.
Tel : 628 4495-628 4286.
Fax : 628 4787 / 628 4424

96/01/ONCOMP

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

...s Order Allocates, despatches and processes orders, generates pending orders and schedules. ...Price: Rs 1,000 **Vendor:** Landmark Software **RQS#** 71326

...dex Point Of Sale 2.1 Online retail management system with sales analysis, inventory control and multi-currency payment modes. **Price:** Rs 8,000 **Vendor:** Matrix Information Systems **RQS#** 71327

...s Payroll software. **Price:** Rs 12,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 71328

...Man Point of Sale Management System For hotels and restaurants. Supports multiple POS, remote printing, inventory management and MIS. **Price:** Rs 50,000 **Vendor:** Shaw Hotels & Consultancy Services Pvt Ltd **RQS#** 71329

...dDeposit For fixed deposit management. **Price:** Rs 500,000 **Vendor:** Ashok Leyland Information Technology Ltd **RQS#** 71330

...rtDiscount Software for bill discounting. **Price:** Rs 200,000 **Vendor:** Ashok Leyland Information Technology Ltd **RQS#** 71331

...rtLease It handles leasing, finance, hire-purchase and receivables management. **Price:** Rs 500,000 **Vendor:** Ashok Leyland Information Technology Ltd. **RQS#** 71332

...ware System for FDR-Brokers Allows fixed deposits brokers to maintain FD-schemes of mulitple companies and sub-brokers, due-date reminders, etc. **Price:** Rs 9,999 **Vendor:** RDK Compu Data Techniks **RQS#** 71333

...k Control Inventory package that generates price, value, reorder list, sales, purchase and stock ledgers. **Price:** Rs 1,000 **Vendor:** Landmark Software **RQS#** 71334

...k Ver.6.00 Online inventory management package. Supports all possible methods of stock valuation, multiple warehouses. **Price:** Rs 5,000..12,500 **Vendor:** Datasoft Application Software India Ltd **RQS#** 71335

...ics 1.0 Inventory management system with multi-godown consolidation. Can be linked to purchase order module. **Price:** Rs 7,500 **Vendor:** Computer Software Services **RQS#** 71336

...e Ver.1.0 Menu-driven online system for granite industries to control finance, inventory, MIS reports and multi scheduled balance sheet. **Price:** Rs 12,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 71337

...ESS Purchase and inventory management system. Maintains records for raw materials, finished products, and products received. **Price:** Rs 350,000 **Vendor:** Basawa Technologies **RQS#** 71338

...y Manufacturing software product for inventory control and customer service control. **Price:** Rs 350,000..1,000,000. **Vendor:** Cadus International **RQS#** 71339

...roker 2.0 Automates accounts of sub-brokers. Generates data ledgers, bills, confirmation notes and checklists. **Price:** Rs 7,777 **Vendor:** Zedd Computer Consultants **RQS#** 71340

...Time And Attendance System Comes with a clock for calculation and analysis of employee work-time. **Price:** Rs 35,000 **Vendor:** Super Bartronics Ltd **RQS#** 71341

...ventory 1.0 A comprehensive inventory management software. **Price:** Rs 11,500 **Vendor:** Saransh Technologies **RQS#** 71342

...Project and office management package, charts project schedules. **Price:** Rs 8,000 **Vendor:** JJ Compusoft **RQS#** 71343

...n inventory management and accounting system for textile manufacturers. **Price:** Rs 12,000 ...endor: Accountronics **RQS#** 71344

...0 Total integrated business system (TIBS) bundled with features like inventory, finance, costing, planning, production etc **Price:** Rs 2,000..30,000 **Vendor:** Compute **RQS#** 71345

Despite varying features, most business software packs the basics

SOFTWARE BUSINESS APPS

2,168 Asian Students On The Path To An International B. Tech. Degree*.

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

** Degrees will be awarded directly from The Open University.*
Students will also get diplomas from Aptech.

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

APTECH COMPUTER EDUCATION We change lives

OVERTURE (AIL-238/96)

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

F-PROT
PROFESSIONAL

YOU'D PROTECT THIS BABY,

FROM DIPTHERIA, TETANUS, WHOOPING COUGH, POLIO, . . .

A network needs the same care and attention. After all there are over 8,000 viruses...

Internationally acclaimed and used in 100 countries by more than 2 million users, F-PROT NLM provides you enterprise-wide anti-virus security for easy management of invaluable data.

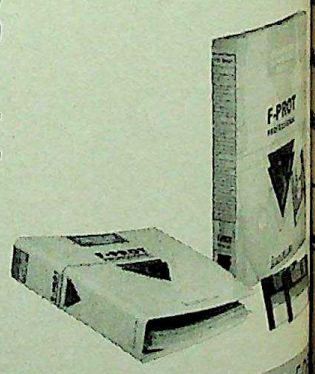
Designed specifically for the most popular Network Operating System, Netware, F-PROT also works on 20 different network platforms and supports DOS, Windows'95, Windows NT and OS/2.

F-PROT NLM boasts of the highest virus detection capabilities (8,000 viruses as of now) along with the ability to detect generic-unknown viruses.

Its features include :

- ▼ Real time scanning & disinfection of all files copied to the server, always keeping it free of any virus.
- ▼ Scheduled scanning facility enables timely scans of the server at specified intervals.
- ▼ Unbeatable user notification methods in case of detection of a virus.
- ▼ Large networks with multiple servers can be controlled from a single node with easy-to-use interface.
- ▼ Faster and more secured scanning (Famous F-Prot scan engine used)
- ▼ Scanning of CD-ROMs
- ▼ Complete Windows protection, through Gatekeeper device Driver, to prevent any virus infection.
- ▼ Advanced Networking feat… managing large Networks
- ▼ Logging out an offend… (Quarantine facilities)
- ▼ No degradation in Se… performance
- ▼ Unique password protection
- ▼ Scans compressed and m… files unlike others
- ▼ Extensive support on the I…
- ▼ Frequent updates sent to … desk! (6 in a year)

and much more.



KNOXWARE

SPECIALISED SOLUTIONS F…
N E T W O R K …

Corporate : 506, 9th Main, HAL II Stage, **Bangalore** - 560 008 Tel : 80-528 8490, 529 3377 Fax : 80-525 4204 E-mail : knoxware@pobox.com
Branch : 7A Hospital Street, **Calcutta** 700 072 Tel : 276528 Fax : 273809 ***Franchisee West :*** Crystal Enterprises, **Bombay** Tel : 413 7571 Fax : …
Channel Partners : **Ahmedabad** ■ Thirdwave Tel : 467974 ■ Growth Center Tel : 409200 ■ Microlystic Tel : 7481927 **Bangalore** ■ Nodes India Tel : 521391 …
Baroda ■ Micro World Tel : 328256 **Calcutta** ■ Pixel Tel : 596120 **Delhi** ■ Expunge System Tel : 6463068 **Guwahati** ■ Globesoft Tel : 6… ■ Mohan Marketing Tel : 846863 **Jaipur** ■ Bell Infotect Tel : 369292 **Jamshedpur** ■ Jupiter Systems Tel : 427471 **Madras** ■ Bitslan Tel : 8…
■ On-line Tel : 631157 ■ AGTECH Tel : 475044 ■ Soft Aid Tel : 347802

All Brand Names, Product Names and Registered Trademarks are the property of their respective owners. F-PROT © Copyright by Data Fellows

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Integrated Business System A comprehensive system with user definable parameters, report and document generator. **Price:** Rs 32,000..48,000 **Vendor:** Compute **RQS#** 71346

Inventory 2.0 Inventory and billing package for pharmaceutical traders. Can be integrated with accounting. **Price:** Rs 8,500 **Vendor:** Quill Publishers **RQS#** 71347

Manufacturing Inventory Inventory management system with stock control, ledger, BOM, product costing and so on. **Price:** Rs 25,000 **Vendor:** Quill Publishers **RQS#** 71348

Payroll Payroll automation system with user defined reports. **Price:** Rs 7,500 **Vendor:** Quill Publishers **RQS#** 71349

Trading Inventory Inventory and flexible invoicing for traders. Offers extensive sales and profitability analysis. **Price:** Rs 8,500 **Vendor:** Quill Publishers **RQS#** 71350

invoicing system, also generates covering letters, reminders, receipts, challans, sales tax registers in addition to the usual reports. **Price:** Rs 8,500 **Vendor:** Divine Computers **RQS#** 71351

line 2.0 Package designed for pharmaceuticals, distributors, stockists for sales, inventory and accounting. **Price:** Rs 9,999..18,000 **Vendor:** Computer Lab **RQS#** 71352

—**Point of Sale Ver. 5.0** Software for point-of-sale billing for supermarkets,textile, retailers, pharma and consumer products distributors. **Price:** Rs 14,500 **Vendor:** Excelsoft Systems **RQS#** 71353

-Agent V 1.0 Software to organize and systematize share transfer work. **Price:** Rs 19,500 **Vendor:** Synergy Consultancy Services **RQS#** 71354

act Ideal for banks and finance companies offering hire-purchase and leasing services. **Price:** Rs 500,000 **Vendor:** Datacons **RQS#** 71355

X 96 Consists of three software tools for service, sales and financial management. **Price:** Rs 7,500 **Vendor:** We Care Infosys **RQS#** 71356

Solve For distributors, wholesalers, retailers and C&F agents. Has sales, purchase, inventory and accounting modules. **Price:** Rs 12,500 **Vendor:** Data Soft **RQS#** 71357

PAK-Payroll Can be used independently or linked with Visipak-FA. **Price:** Rs 8,000 **Vendor:** JJ Compusoft **RQS#** 71358

PDS Manages fixed deposits. Generates FDR and interest warrants, bank reconciliation statements and MIS reports. **Price:** Rs 45,000 **Vendor:** VJ Infosystems Ltd **RQS#** 71359

Payroll and salary package with data security features. **Price:** Rs 1,499 **Vendor:** Bharat Computers **RQS#** 71360

DTR-based payroll system. Covers payslips, income-tax, PF, bonus, arrears, loans etc. **Price:** Rs 15,000 **Vendor:** Softlink Exports **RQS#** 71361

1.0 Multi-module software for video libraries, audio libraries and department stores **Price:** Rs 13,000..22,000 **Vendor:** Supra Computers **RQS#** 71362

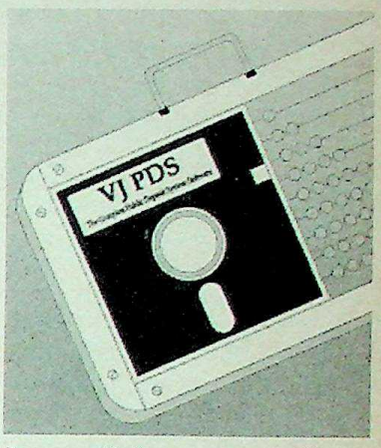
-Payroll Multi-branch payroll system. Batch integrated with Visipak-FA. **Price:** Rs 8,000 **Vendor:** Radix Softwares Pvt Ltd **RQS#** 71363

yroll Payroll automation package with bar code interface and photo-storing facility. **Price:** Rs 14,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 71364

orse DTR-based complete business management system. Covers inventory, accounting, ordering, indenting, mailing etc. **Price:** Rs 15,000 **Vendor:** Softlink Exports **RQS#** 71365

orse Lite It provides users with pre-configured companies, without any option for further changes. **Price:** Rs 7,000 **Vendor:** Softlink Exports **RQS#** 71366

or 1.0 System for front office automation, sales and loan administration. **Price:** Rs 45,000 **Vendor:** Zyfax Sytems Pvt Ltd **RQS#** 71367



From portfolio management to fixed deposits, there's a range of specialized business and financial apps

SOFTWARE
BUSINESS APPS

GET AN INTERNATIONAL B.TECH. DEGREE*
WITHOUT LEAVING *India.*

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

*Degrees will be awarded directly from The Open University.
Students will also get diplomas from Aptech.

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

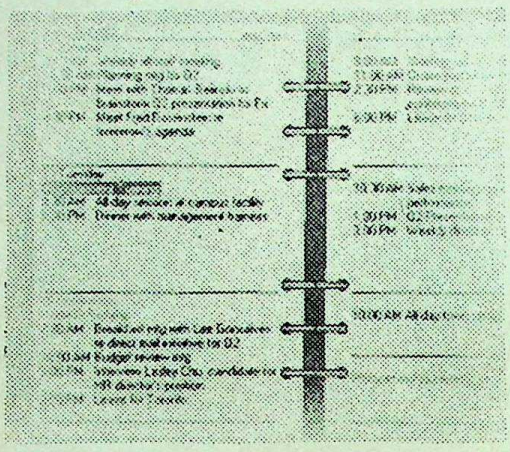
APTECH
COMPUTER EDUCATION
We change lives

OVERTURE (AIL-237/96)

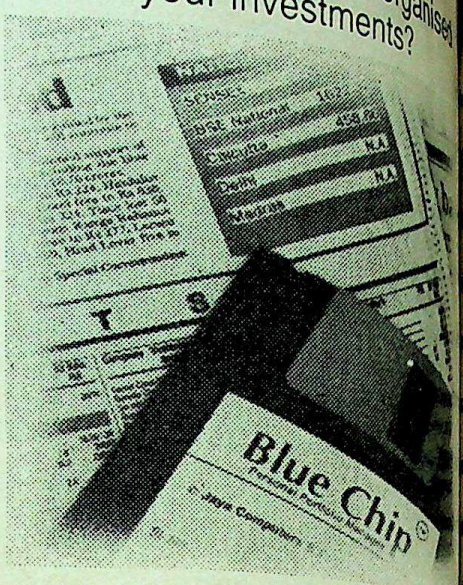
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

You've learnt to organise your day



Now, isn't it time you organised your investments?

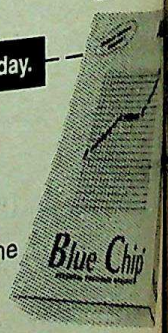


Blue Chip®

The new, revolutionary software that maximizes portfolio performance easily, efficiently and effectively.

Shares, Bonds, Fixed Deposits or Debentures, with **Blue Chip** you can now monitor and asse every investment in your portfolio ➤ Plus get all the assistance you need in tracking follow-u ➤ **Blue Chip** also takes care of your accounting needs – right up to the balance sheet ➤ Ev computes present and future values and calculates long term gains or loss ➤ Besides, Blue Chip suppo multiple groups with unlimited members in each ➤ Which means you can share it with your family and others ➤ And all this, amazingly, at Rs. 7,000 only.

Power for t new generat investor



Discover the power of Blue Chip! Send for your Demonstration Pack today.

JAYA COMPUTERS & SOFTWARES (P) LTD.

Yes ! Please send me the **Blue Chip** Demonstration Pack (Media ☐ 5 $^1/_4$ ☐ 3$^1/_2$) for Rs 700 (Rupees seven hundred only). My Cheque/Demand Draft is enclosed .
I understand this amount will be adjusted against my final order, should I decide to send for the complete **Blue Chip** package later.

Name .....
Company .....
Address .....
Phone .....Fax.....

A quality product from

JAYA COMPUTERS & SOFTWARES (P) LTD. ***Head Office*** : Cooke & Kelvey Building, 2nd Floor, 20 Old Court House Street, Calcutta 700 0
Phone : 243 0007, 220 1509, Fax : (91) (33) 248 8451 ***Regional Office*** : F19 Everest, 7th Floor, 156 Tardeo Road, Mumbai - 400 0
Phone : 492 3470, 492 3563, Fax : (91) (22) 495 0416

DEALERSHIP ENQUIRIES SO

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SL Model ACSL Model builder for simulation purposes. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71368

CSL Real Time Advanced continuous simulation language for developing simulators. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71369

CSL Vision Visualization tool for ACSL simulation language. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71370

anced Design-S7 Interactive system for all types of corridor design including roadways, tunnels highways, channels, dam alignment. **Price:** Rs 66,000 **Vendor:** HOPE **RQS#** 71371

ad CAD 4.55 Software for architectural modelling, drafting, rendering walkthroughs, fly arounds, quantities estimation. **Price:** Rs 240,000 **Vendor:** Tata Elxsi **RQS#** 71372

ilicbus Comes in modules for managing space, property, equipment,telecom, building operations. Integrates AutoCAD facilities. **Price:** Rs 156,000 **Vendor:** HOPE **RQS#** 71373

itectural BASE-S7 Tailors AutoCAD for professionals in facilities management, space planning and consulting engineering. **Price:** Rs 16,500 **Vendor:** HOPE **RQS#** 71374

ma SE General purpose simulation software for manufacturing, process re-engineering and so on. **Price:** $24,400 **Vendor:** Abcon Information Systems **RQS#** 71375

n Architect with Core-S7 Complete system for architects. **Price:** Rs 49,500 **Vendor:** HOPE **RQS#** 71376

n CIVIL 7.0 Facilitates surveying, contour mapping, sub-division design, earthwork, road design etc. **Price:** Rs 29,500 **Vendor:** VVA Software **RQS#** 71377

n Manager Technical documentation management software. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71378

oCAD Data Extension Provides access to drawing attributes and related database information across any AutoCAD 11 or 12 drawing. **Price:** Rs 20,000 **Vendor:** HOPE **RQS#** 71379

oCAD Designer 1.1 AutoCAD A feature-based parametric solid modeler on desktop. Completely integrated with AutoCAD 12. **Price:** Rs 49,000 **Vendor:** HOPE **RQS#** 71380

oCAD Release 12 Has advanced 2D drafting and full 3D rendering and modelling capabilities. **Price:** Rs 93,500 **Vendor:** HOPE **RQS#** 71381

oCAD Release 13 Incorporates object-oriented technology, integrated solid modeler, associative hatching etc. **Price:** NA **Vendor:** HOPE **RQS#** 71382

odesk Work Center Technical document management system to integrate design teams by enhanced document organization, security and revision management. **Price:** Rs 36,000 **Vendor:** HOPE **RQS#** 71383

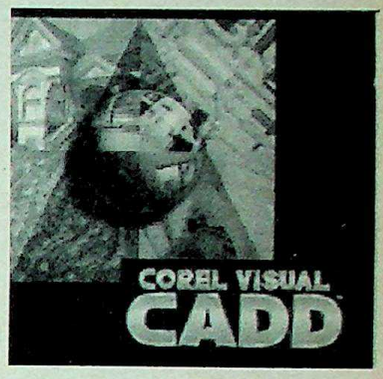
mation System For Continuous Process Monitors critical parameters, process status and historical trends. **Price:** Rs 50,000 **Vendor:** Jopasana Software Pvt Ltd **RQS#** 71384

vision Autovision is a photorealistic still-rendering app that operates with the latest release of AutoCAD; compatible with 3DStudio. Includes ray-tracing, a material editor and advanced lighting capability. **Price:** Rs 20,000 **Vendor:** HOPE **RQS#** 71385

ra Symbolic solver for mathematical calculations, powerful graphics capability for manipulation of 2D and 3D objects. **Price:** Rs 26,000 upwards. **Vendor:** Zon Marketing **RQS#** 71386

oCAD Batch reaction simulation software. Features include reactor design, control system dynamics, distillation dynamics etc. **Price:** NA **Vendor:** Bell Engineering Software Services **RQS#** 71387

AS 1.0.001 A customizable data acquisition system for non-time critical apps. **Price:** Rs 100,000 **Vendor:** Bellwether Technologies Pvt Ltd **RQS#** 71388



CAD application simplify part design by displaying multiple views.

SOFTWARE
CAD/SCIENTIFIC

2,168 Asian Students On The Path To An International B. Tech. Degree*.

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

** Degrees will be awarded directly from The Open University. Students will also get diplomas from Aptech.*

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

APTECH
COMPUTER EDUCATION
We change lives

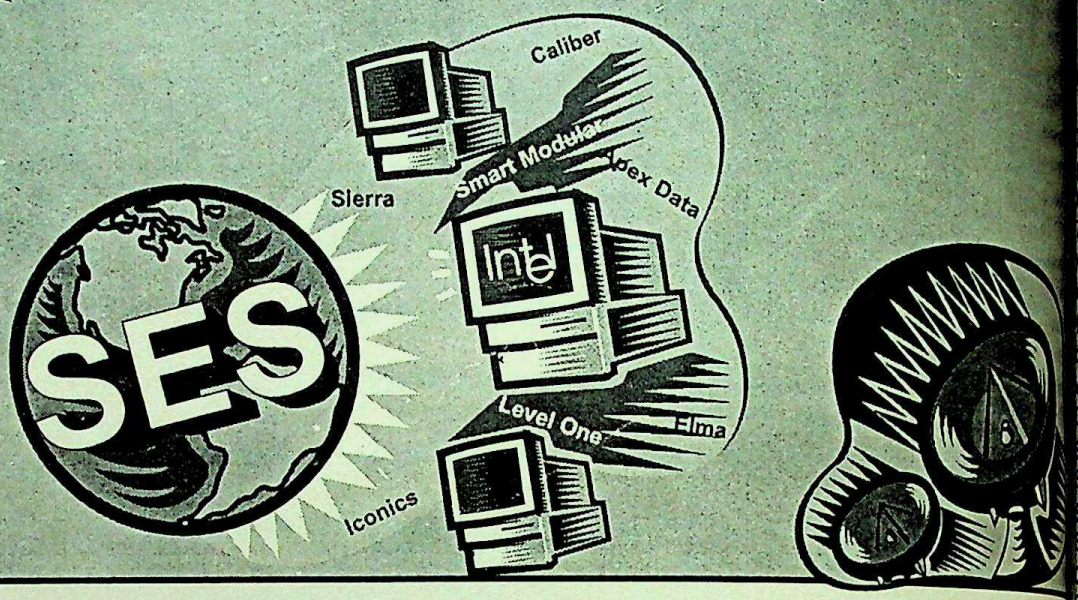
OVERTURE (AIL-238/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

INTEL SIERRA LEVEL ONE SMART MODULAR ELMA APEX DATA PROMETHEUS ICONICS INTEL

Bridging Technologies Across The World



SES Computers & Technologies Pvt.Ltd. offers a wide range of the world's most advanced I.T.Products through a national marketing network.Each product selected for its sheer power, total stability,clever innovation and unmatched reliability, backed by a committed team of skilled professionals providing total service support.

Products offered are:

Intel. Complete Range of Microprocessors,Pentium's & Motherboards.**Sierra Semiconductor** Multimedia Modems.AccuSound Full-Duplex SpeakerPhone,Modem with Plug & Play,Voice View Support,SRS Surround Sound.**Prometheus.** World class Telephony Enhanced Modems.**Elma.** Industrial PC Systems.**Smart Modular Technology .** Code Developers Kit for SIMM's,SIMM Modules,EDO DRAM Memory Modules,SRAM Modules,DRAM DIMM Modules.**Apex Data** Cellular Ready Data/Fax Modems,Mobile data/fax Modems,Token-Ring Adapters,Ethernet Adapters,Serial Port Card .**Iconics.** Software Tools for Manufacturing and Process Automation.**Caliber Corporation** Complete Pentium Range of Computers and Multimedia Systems. **Level One.** IC's for the Communications Industry,PCM Transceivers,Repeaters,LAN Transceivers,etc.

Authorised Distributors:

SES Computers & Technologies Pvt.Ltd.

BANGALORE :G3,Cunningham Apartments, 5,Edward Road Bangalore 560052.Phone:2254490 / 2254491 Fax: 080-2254491.BOMBAY : Phone - 022-8380055 / 8341584 Fax:022-8380266.NEW DELHI : Phone-6188664 Fax 011-6165933. HYDERABAD : Phone / Fax- 040-3745499 . PUNE : Phone-0212-326900.

INTEL SIERRA LEVEL ONE SMART MODULAR ELMA APEX DATA

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Designer Biochemical, pharmaceutical and food process simulator. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71389

Fermentation Real-time software for monitoring and logging parameters like pH and temperature. **Price:** Rs 50,000 **Vendor:** Jopasana Software Pvt Ltd **RQS#** 71390

Automation System Real-time software for data logging and efficiency calculations. GUI displays process status, generates reports and tracks events. **Price:** Rs 50,000 **Vendor:** Jopasana Software Pvt Ltd **RQS#** 71391

SuperCAD 1.0 Load estimation, analysis and design for RC multi-lane bridges. **Price:** Rs 31,995 **Vendor:** Struct CADD Sector **RQS#** 71392

Overlay GSX 2.0 Satellite imagery, aerial photographs and other scanned grayscale and color photographs can be traced using their raster images. **Price:** Rs 56,000 **Vendor:** HOPE **RQS#** 71393

Overlay LFX Semi-automatic vectorization of raster images. **Price:** Rs 14,000 **Vendor:** HOPE **RQS#** 71394

Overlay esp 4.x Helps to convert paper drawings or maps into .DWG vector formats using raster image. **Price:** Rs 56,000 **Vendor:** HOPE **RQS#** 71395

Plus 3D Integrates flexible design with powerful data management. Incorporates detailing through built-in or customized libraries. **Price:** Rs 25,000 **Vendor:** VVA Software **RQS#** 71396

Designing Pack These are shareware CAD and designing programs like AppCAD, CheapCAD, BanCAD etc. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71397

ES CP Software for cathodic protection calculation. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71398

S Consequence and hazard assessment of offshore structures. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71399

COST Capital cost estimation of chemical plants. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71400

Full featured in-circuit emulator for designing embedded microcontrollers. **Price:** $4,500 **Vendor:** Parekh Micro Electronics (India) Ltd. **RQS#** 71401

Chromatograph analysis package. Has in-built database of over 1,000 patterns and analysis strategies. Customizable reports and flexible event programming. **Price:** Rs 20,000 **Vendor:** Jopasana Software Pvt Ltd **RQS#** 71402

ChemOffice Its intelligent tools help you draw chemical structures. **Price:** Rs 70,000 **Vendor:** Cranes Software International **RQS#** 71403

.02 Helps in reliability analysis. **Price:** NA **Vendor:** Bell Engineering Software Services **RQS#** 71404

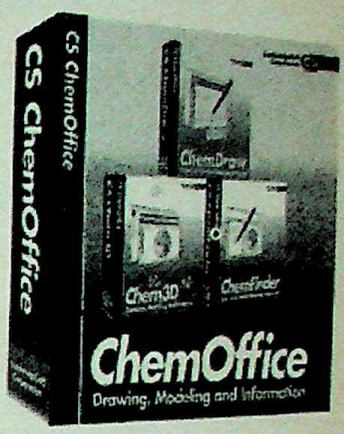
ead 3.2 Chemical process simulation software for heat and mass balance. **Price:** NA **Vendor:** Bell Engineering Software Services **RQS#** 71405

ead Batch Process simulation software for batch distillation. Capable of equipment design and rating for chemical processes. **Price:** NA **Vendor:** Bell Engineering Software Services **RQS#** 71406

ead Therm For thermal design and rating of heat exchanger as per EEMA ASME standards. **Price:** NA **Vendor:** Bell Engineering Software Services **RQS#** 71407

Maker v2.2 Circuit and PCB design software. Main modules include schematic capture, layout editor with automatic placement and routing. **Price:** Rs 25,000 **Vendor:** Software Options (India) Pvt Ltd **RQS#** 71408

Designware For analysis of limit state design, RC-beam, RC-column and RC-water tanks etc. **Price:** Rs 800..14,000 **Vendor:** Vaastu Group of Engineering **RQS#** 71409



Specialized apps such as CS ChemOffice were once the domain of UNIX systems; now they're on Windows and Macs

SOFTWARE
CAD/SCIENTIFIC

GET AN INTERNATIONAL B.TECH. DEGREE*
WITHOUT LEAVING *India.*

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

*Degrees will be awarded directly from The Open University.
Students will also get diplomas from Aptech.

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

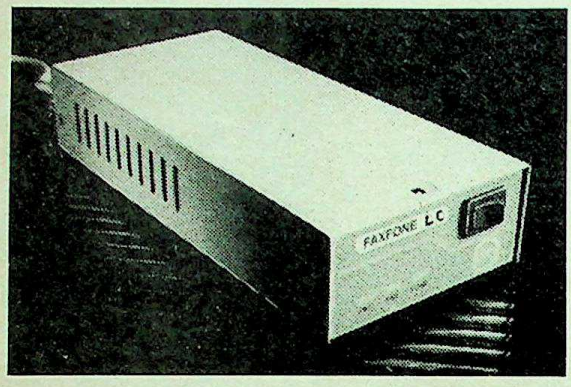
APTECH
COMPUTER EDUCATION
We change lives

OVERTURE (AL-237/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

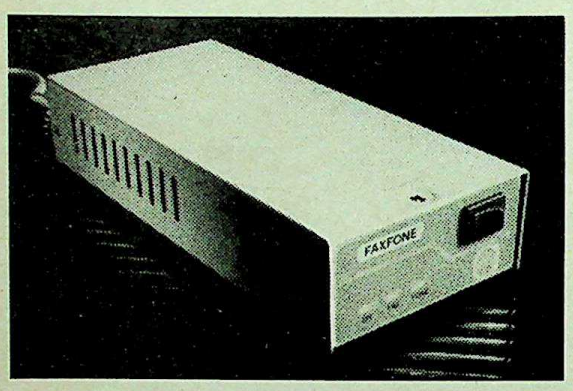
Digitized by Arya Samaj Foundation Chennai and eGangotri

DATA-COMM ACCESSORIES FROM SPARR



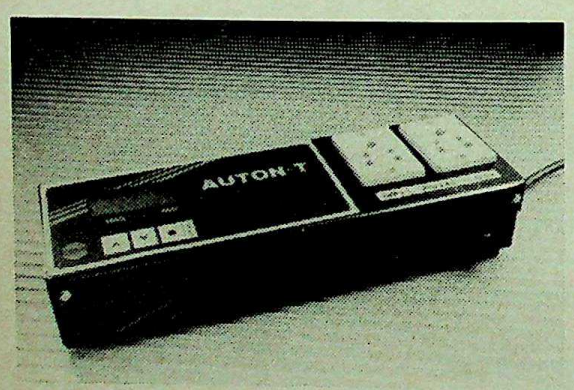
INTRODUCING FAXFONE LC

Faxfone - LC is an enhanced but cost effective version of Faxfone for automatically switching between Fax / voice calls and Fax / Modem calls. Unlike, "built-in Fax/Tel switch" found in Fax machines, the caller's phone does not run as he is waiting for the call to be answered. Faxfone-LC can be connected to a PABX, rings an external telephone and supports remote receive.



FAXFONE

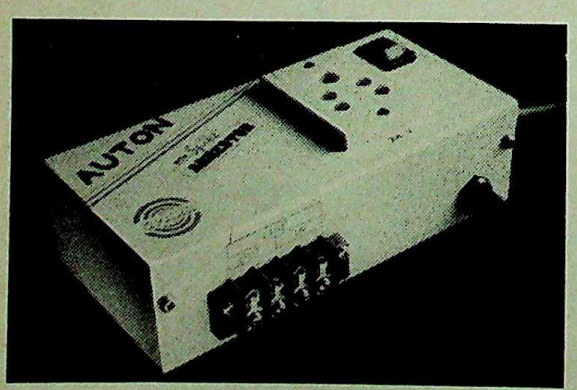
- Eliminates need for costly dedicated phone lines for FAX/MODEMS
- Expands usage of existing line.
- Automatically picks up all Incoming calls, detects their nature (FAX, DATA, VOICE) and routes them to their assigned destination.
- Prevents line access when FAX, MODEM or Telephone is in use.
- Status LEDs on front panel indicate if line is being used by FAX/MODEM or FONE.
- Available in two models: Two Way and Three way



AUTON-T

AUTON-T can be programmed to switch ON communication equipment for delayed transmission at pre-programmed time intervals. AUTON-T accepts 10 different ON-OFF sequences (programs) which can be programmed by the user.

- Automatically switches ON-OFF equipment for deferred unattended transmission (10 programs).
- Digital LED Display.
- Battery backed real time clock - undisturbed by mains failure.
- Highly reliable switching system.
- Also available AUTON (Regular) without Digital Timer-To wake-up system on incoming calls.



AUTON

- Keeps the communication equipment switched OFF when not in use.
- Automatically switches ON the communication equipment for incoming calls.
- Automatically switches OFF the equipment on completion of communication after a time delay.

SPARR ELECTRONICS LTD
43, HMT Main Road, Mathikere, Bangalore-560 054, INDIA
Tel: 0091-080-3348346 Fax: 0091-080-3348345
Telex: 0845-2419 SPARR IN Grams: SPARR
Email: 70600.3232@Compuserve.Com

TECHNOLOGY THAT HELPS YOU STAY AHEAD.

List of Dealers For SPARR Electronics Ltd

Ahmedabad, Kirti Sales Pvt Ltd., Ph: 6562933. **Bangalore,** Abyan Sales, Ph: 5469607, **Bombay,** Aristo Electronics, Ph: 5614511, 5651110, Sandeep Computers, Ph: 4948432. **Chandigarh,** Royal Business Machines, Ph: 607684, **Calcutta,** S N Computers, Ph: 749090, 747133, 741409, **New Delhi,** Fair Deal Marketing, Ph: 6419763. **Indore,** Veltronics, Ph: 430194, 535382, **Jaipur,** Bellinfotech Systems, Ph: 369292, 379292, **Madras,** Elecom Technologies, Ph: 418163, Electronics, Ph: 540969, **Moradabad,** Electro World, Ph: 310119, 313541, **Pune,** Smile Multitrad Pvt. Ltd, Ph: 328442. **Secunderabad,** Anurag Infotech Pvt. Ltd., Ph: **Trichur,** Allied Business Systems, Ph: 0487-555657.

Dealers Enquires Invited

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Control System Toolboxes Collection of functions for the analysis and design of auto-control systems. **Price:** Rs 60,000 **Vendor:** Cranes Software International **RQS#** 71410

Coordinate Geometry-S7 Tool for coordinate geometry task in civil and survey. **Price:** Rs 16,500 **Vendor:** HOPE **RQS#** 71411

Drawing Management Technical-drawing management package for drawing and monitoring AutoCAD projects. **Price:** Rs 2,000..35,000 **Vendor:** USA Computer System **RQS#** 71412

AutoCAD Addons An add-on pack for getting the best out of AutoCAD. Includes menus, utilities, sample etc **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71413

CAD Designer Set of CAD/CAM programs for professional use. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71414

CAD/CAM Useful for CAD/CAM desiging for professional and industrial use. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71415

PCB Designer Set of tools for PCB and schematic design. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71416

Science/Engineering Toolkit Programs to aid in science and engineering. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71417

Statistical Analyzer A collection of statistical programs. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71418

S7 Modelling and analysis tool for complex engineering apps. **Price:** Rs 33,000 **Vendor:** HOPE **RQS#** 71419

ign II Process engineering simulator. **Price:** Rs 850,000 **Vendor:** Hinditron Informatics Ltd **RQS#** 71420

ign II for Windows Process simulation package. Performs heat and balance calculations for petrochemical and refinery processes. **Price:** Rs 800,000 **Vendor:** Hinditron Informatics Ltd **RQS#** 71421

gn View 2D parametric engineering CAD package based on dimension driven variational geometry. **Price:** Rs 29,000 **Vendor:** Tata Elxsi **RQS#** 71422

ign-S7 Helps in horizontal and vertical design and alignment for commercial and residential subdivisions, site developments, sewer and drain layout. **Price:** Rs 49,500 **Vendor:** HOPE **RQS#** 71423

ssioning System for dimensioning electrical drives with design facilities for different duty types, motors, fuses, line contractors and rotor contractors. **Price:** Rs 90,000 **Vendor:** Macmet India **RQS#** 71424

LE 3.0 32-bit PCB CAD software. Gives 0.1 micron resolution with up to 255 individual layers. SMO components on both sides. **Price:** Rs 75,000 **Vendor:** NR Designs & Services **RQS#** 71425

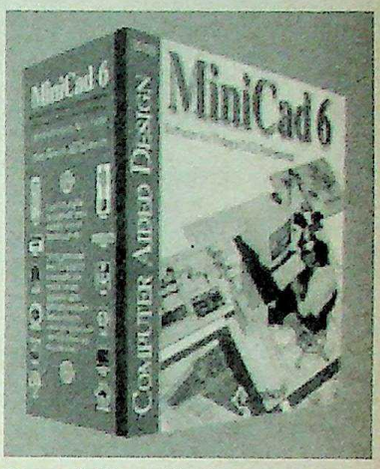
DESIGN MASTER For electrical power design, analysis and distribution. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71426

Bumper EGS/Seals Helps in designing bumpers, seals and viscoelastic materials used in automobile, aerospace and defence apps. **Price:** Rs 75,000 **Vendor:** EGS Computers **RQS#** 71427

Browse Knowledge base for effluent process technology. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71428

orks-S7 Estimates amount of earthwork in cutting and filling for various civil works like road work, foundation, silting etc. **Price:** Rs 49,500 **Vendor:** HOPE **RQS#** 71429

Pace Raster image processing software with various tools. **Price:** $ 10,000 **Vendor:** Centre for Development of Advanced computing **RQS#** 71430



Some CAD applications are versatile enough to prepare presentations and reports

SOFTWARE CAD/SCIENTIFIC

2,168 Asian Students On The Path To An International B. Tech. Degree*.

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

** Degrees will be awarded directly from The Open University. Students will also get diplomas from Aptech.*

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

APTECH COMPUTER EDUCATION We change lives

OVERTURE (AIL-238/96)

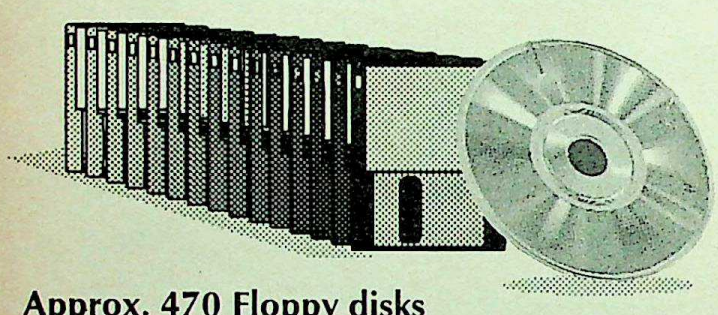
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

COMPRO

The Way To Go

Limitless Storage syste



The fantastic value is Rs. 55,555/-* ONLY!!!

Approx. 470 Floppy disks

680MB CD less than Rs. 500/-

Multimedia computing and serious internet surfing requires a tremendous amount of disk spa

Before you know it, you need to upgrade or add another Hard disk. Hard disks and floppy disk no longer the solution!

With a COMPRO™ CD-Recorder Kit you can store on one CD the equivalent amount of inform you can store on 470 floppy disks. And each recordable CD costs 500.

Think about what you can save in terms of time and money.

Get a COMPRO™ CD-Recorder Kit and get started today!

COMPRO™ CD-Recorder Kit Includes :

- CD-Recorder Drive (Manufactured in Japan) •
- GEAR CD Recording Software •
- Adaptec SCSI-2 Card •
- 2 Recordable CD Media •

PC Multimedia PC

GEAR

ACS GROUP OF COMPANIES

SINGAPORE • USA • TAIWAN • HONG KONG • AUSTRALIA • MALAYSIA • CHINA • UK • THAILAND

Windows CE

datalinker

201-A, Anjali, French Bridge, MUMBAI-400 007. Tel. : 387 2063, 387 2224 • Fax : 363 40

** Local Taxes Extra*

Available at : **MUMBAI** Best 261 1050, 262 4795 • Excel Systems 206 2755/56 • Gemini 568 4857 • **PUNE** Resheem 628 346 • **NAGPUR** 760401, 768483 • **SURAT** Impulse 629 471 • **BARODA** HITECH • 336 609 • **AHMEDABAD** • Datalink 495 472, 745 1454 • Mohan Marketing 367 271 • **MADRAS** ATI Inc. 831 583 • **VISAKHAPATNAM** Creative Computers 555 186, 544 765 • **SECUNDERABAD** • Mohan Marketing • 849 929 • **BANGALORE** Kukreja 220 5408, 228 1650 • **KERALA** Alpha Systems (0481) 569 202 • **BHUBANESWAR** Megasoft

All trademarks & tradenames belong to their respective companies. Photographs shown are for represantation purposes only. Specifications are subjected to change

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

neer's Aide Process engineer's toolkit. Consists of pipeline-duct network, pump and fan compressor, heat exchanger, flow meter etc. **Price:** NA **Vendor:** Bell Engineering Software Services **RQS#** 71431

ers Aide 3.11 Process engineering software for pipe network calculations, pump and compressor selection, heat exchanger siting, property database, project management, estimation etc. **Price:** Rs 55,000 **Vendor:** Supreme Technologies **RQS#** 71432

.5 Mathematical function evaluating tool with interactive graphics. **Price:** Rs 850..4,000 **Vendor:** Programware Computer Company **RQS#** 71433

ry CAD/PLAN/FLOW Factory layout and analysis solution in AutoCAD which provides industrial engineers with a tool for optimizing material flows. **Price:** Rs 210,000 **Vendor:** HOPE **RQS#** 71434

Collect Flexible recording system with field mounted signal conditioning hardware, real-time and historical trends with comprehensive alarm mechanism. **Price:** NA **Vendor:** Jopasana Software Pvt Ltd **RQS#** 71435

gy Expert Real time expert system for cement kiln optimization and control applicable for other process industries. **Price:** Rs 5,500,000 **Vendor:** Enexco Teknologies India Ltd **RQS#** 71436

gy Logic Toolbox Helps in designing fuzzy logic-based systems suitable for modelling and controling complex non-linear systems. **Price:** Rs 60,000 **Vendor:** Cranes Software International **RQS#** 71437

Plant Plus Single and blended amine gas plant simulator simulates bulk and selective removal of carbon dioxide from tail gas and refinery gas. **Price:** Rs 1,000,000 **Vendor:** Hinditron Informatics Ltd **RQS#** 71438

estat Ver.5 Statistical toolkit, interactive with graphical facilities. **Price:** Rs 30,000 upwards. **Vendor:** Zon Marketing **RQS#** 71439

s Base Module Mechanical engineering drafting package. Includes an extensive database of standard parts and symbols. **Price:** Rs 43,000 **Vendor:** Abcon Information Systems **RQS#** 71440

s Profile Helps in drawing multiple views of standard cross-section profiles from a library of automatic parts. **Price:** Rs 16,775 **Vendor:** Abcon Information Systems **RQS#** 71441

s Sheet Metal Helps in unfolding 2D sheet metal profiles in a cross-section. **Price:** Rs 34,000 **Vendor:** Abcon Information Systems **RQS#** 71442

s Solid Sheet Helps in developing prototypes of complex 3D sheet metal models. **Price:** Rs 79,000 **Vendor:** Abcon Information Systems **RQS#** 71443

s TNT Helps in creating isometric drawings from 2D and get an exploded view of the desired model. **Price:** Rs 32,000 **Vendor:** Abcon Information Systems **RQS#** 71444

s Vario Parametric design package for generating variants using source drawings and dimensions. **Price:** Rs 43,000 **Vendor:** Abcon Information Systems **RQS#** 71445

s-HVAC Helps in designing geometric shapes for pipes, bends, cones and so on. **Price:** Rs 23,000 **Vendor:** Abcon Information Systems **RQS#** 71446

Ver.4 Generalized linear interactive modelling package. **Price:** Rs 26,000 upwards. **Vendor:** Zon Marketing **RQS#** 71447

s High level 2D and 3D graphics development toolkit for modelling and simulation. **Price:** Rs 65,000 upwards. **Vendor:** Zon Marketing **RQS#** 71448

Exchanger Software Enables automation of eddy current testing for heat exchangers. **Price:** Rs 250,000 **Vendor:** Macmet India **RQS#** 71449

CAM Powerful CAD/CAM package for 3-axis milling wire-cut EDM, CNC lathe turning. Works in AutoCAD. **Price:** Rs 150,000 **Vendor:** HOPE **RQS#** 71450

A GUI-based software. Demonstates organic reactions in real-time animation. **Price:** Rs 5,200, 1,500 **Vendor:** National Chemical Laboratory **RQS#** 71451

For those who need technical drawing rather than CAD, there are packages ranging from Micrografx Designer to Visio Technical

SOFTWARE
CAD/SCIENTIFIC

GET AN INTERNATIONAL B.TECH. DEGREE*
WITHOUT LEAVING *India.*

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

*Degrees will be awarded directly from The Open University.
Students will also get diplomas from Aptech.

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

APTECH
COMPUTER EDUCATION
We change lives

OVERTURE (AIL-237/96)

CC-0. In Public Domain. Mumukshu Bhawan Varanasi Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

HST

1 Year WARRANTY

intel PENTIUM

Mother Board
(75 - 166 Mhz
&
SIMM MODUL
4 / 8 / 16 MB

Also a

486 PCI M.Board
(3 PCI + 3 ISA Slo
onboard Multi I/
2 Ser (16550) / 1 Par. p

16 Bit / PCI LAN CARD
VL SCSI ADAPTEC CARD
with GAR

It's a Genuine ..... HST product

All logos & trademarks shown above are of their respective owners.

HS' TECHNOLOGY

B - 308, Virwani Indl. Estate, W.E.
Goregaon (E), Bombay - 400 06
Tel # 874 9079 / 874 4296 Fax # 91 - 2
internet # hsr@win
URL - http://www.winglobe.com/hst

Digitized by Arya Samaj Foundation Chennai and eGangotri

Explorer Data visualization, animation, manipulation and analysis of complex, multi-dimensional datasets. **Price:** Rs 85,000 upwards. **Vendor:** Zon Marketing **RQS#** 71452

tat OR Operations research package for linear and integer programming. **Price:** Rs 5,000 **Vendor:** Indostat Services **RQS#** 71453

tat Quality Perfect Software for quality improvement applications. Has control charts and a number of statistical tools. **Price:** Rs 10,000 **Vendor:** Indostat Services **RQS#** 71454

tat for Social Sciences Software for hypothesis testing, experimental designs, curve fitting, multiple regression, classification analysis, etc. **Price:** Rs 6,000 **Vendor:** Indostat Services **RQS#** 71455

calc For Windows 4.0 Instrument engineering software for control valves, flow elements, pressure relief devices, and relief valves. **Price:** Rs 60,000 **Vendor:** Hinditron Informatics Ltd **RQS#** 71456

ated Circuit Analyser 1.0 Helps in designing integrated circuits. Upgrades available free. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 71457

ated Circuit Equivalent Master 1.0 Helps in designing integrated circuits. For hardware engineers and test labs. **Price:** Rs 500..500,000 **Vendor:** Shreenathji Electronics **RQS#** 71458

ated Circuits 1.0 Software on CMOS, microprocessors, co-processors, ROM, RAM etc. Useful for service engineers. **Price:** Rs 500..5,500 **Vendor:** Shreenathji Electronics **RQS#** 71459

ew/LabWindows/CVI Graphical programming IDE for instrumentation and process control apps. **Price:** Rs 100,000 **Vendor:** AIMIL Sales & Agencies Pvt Ltd **RQS#** 71460

cape-S7 Software for 3D landscaping. **Price:** Rs 16,500 **Vendor:** HOPE **RQS#** 71461

Solves linear integer and quadratic programming problems. **Price:** Rs 7,200 **Vendor:** Software India Corporation **RQS#** 71462

T xxx 2.0 Provides statistical sampling technique to generate samples for large volumes of data. **Price:** Rs 65,000 **Vendor:** ASTRA **RQS#** 71463

OSIM PLSYN Programmable logic synthesis system, simulation can be integrated with PSPICL or PSPICL A/D. **Price:** Rs 121,800 **Vendor:** Advanced Micronic Devices **RQS#** 71464

nance Expert System 3 Helps users in locating problems in an assembly line operation. **Price:** Rs 45,000 **Vendor:** Processware Systems **RQS#** 71465

V Generates closed form (symbolic) solutions to mathematical problems. Has 2,500 library functions. **Price:** Rs 39,995 **Vendor:** DC Ellcot Software **RQS#** 71466

Project specification sheet management software. Projectwise specifications, build your own specs or use 40 built-in specs. Powerful reports. **Price:** Rs 16,500 **Vendor:** Supreme Technologies **RQS#** 71467

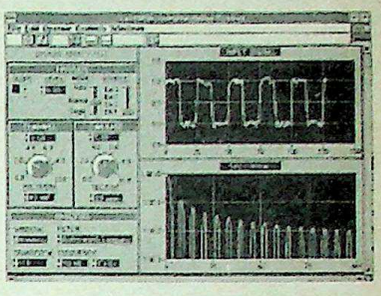
b 4.2.C.1 Powerful environment for numeric computation and technical application development. **Price:** Rs 125,000 **Vendor:** Cranes Software International **RQS#** 71468

raphix 1.0 Finds the non-linear equation connecting photometric absorption and concentration of samples. Useful for endocrinology. **Price:** Rs 3,000 **Vendor:** Programware Computer Company **RQS#** 71469

S Real-time process monitoring system; provides historical trending data, logging and alarm facilities, and graphics associated with tubes. **Price:** Rs 100,000 **Vendor:** Macmet India **RQS#** 71470

CS Can upgrade the existing analyzer and process control system of a cement plant into an online system. **Price:** Rs 150,000 **Vendor:** Macmet India **RQS#** 71471

Sim PSpice A/D 6.3 Mixed analog/digital circuit simulator for both PC board systems and integrated circuits. **Price:** Rs 350,000 **Vendor:** Cranes Software International **RQS#** 71472



Graphical "integrated development environments" have made their inroads into instrumentation and process control apps, with National's LabView

SOFTWARE CAD/SCIENTIFIC

2,168 Asian Students On The Path To An International B. Tech. Degree*.

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

** Degrees will be awarded directly from The Open University.*
Students will also get diplomas from Aptech.

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

APTECH COMPUTER EDUCATION We change lives

OVERTURE (AIL-238/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE TOP 10 REASONS WHY NORTON NAVIGATOR USERS WORK FASTER° IN WINDOWS 95.

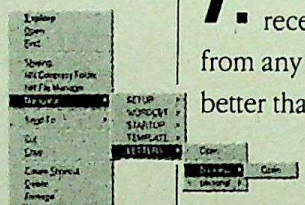
Congratulations! You're the proud owner of Microsoft's Windows 95 operating system. Working on a PC has never been easier.

Now try these ten easy exercises and see how you can work even better and faster in Windows 95 with the all-new Norton Navigator.™

~~CLICK.~~
~~CLICK.~~
~~CLICK.~~
CLICK.

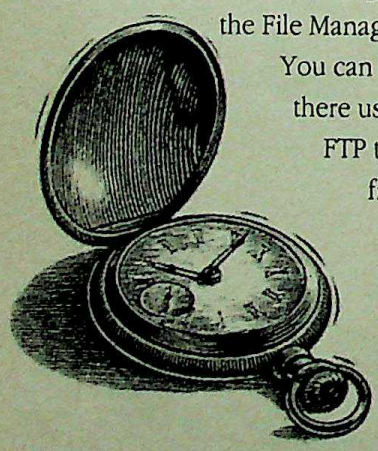
1. First, copy a file from one directory to another. Okay, now copy another file. On average, it takes about eleven steps per file. Now copy a file with Norton Navigator. Mission accomplished. One step.

2. Opening a folder in Windows 95 takes a full five clicks of your trusty mouse. But with Norton Navigator, you can open any folder with just one simple click.

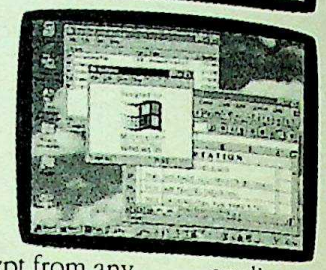


3. Compress a file. Our built-in PK-Zip compatible compression saves you a minute every time.

4. Use Norton Navigator to plug into your Internet connection right from the File Manager. You can be out there using FTP to get files in one third the time it would take you with a separate application.



5. Try a word search for "profits" or any other text string within files. It's at least ten times faster on average with Norton Navigator. No matter how many files you have. Or how big they are. In fact, the bigger the files, the more time you'll save.



6. Save another minute every time you delete, move, zip, or encrypt from any application's Open or Save dialog box. (Are you keeping count?)

7. One click is all it takes to access recently opened files or folders from any application. Now isn't that better than wading through folders?

8. Launch your favorite files, folders, or applications simply by pushing a button on the Norton Taskbar. No more going up and down to and from the Start menu over and over again.

9. With Norton N... you can create different desktop for e... project. So you can f... your work more easily... save even more time.

10. Windows 95 supports long names for all of your ... 32-bit applications. ... Navigator supports long names for most 16-bit applications, too. So you'll never ... have to remember what "billgbor" means.

NORTON NAVIGATOR FOR WINDOWS 95

NORTON NAVIGATOR ACCELERATES YOUR FILE MANAGEMENT IN WINDOWS 95.

Norton Navigator puts file management at your fingertips with Norton File Manager, Explorer Extension and FileAssist.

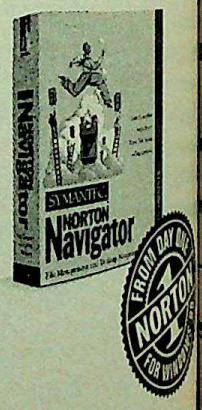
Norton Folder Navigator lets you open, copy, move or create a shortcut for any folder with just one mouse click.

Norton Taskbar features multiple desktops that let you organize your files and find your work faster.

Norton FastFind performs specific text string searches at least ten times faster than Windows 95.

MAKE WINDOWS 95 AN EVEN BETTER PLACE TO BE.

Well, there you have it. Our Top Ten. But try Norton Navigator for yourself, we're sure you'll find your own favorite. Because one of the greatest things about Norton Navigator is it lets you work the way you want to work. So get your copy of Norton Navigator today.



Infosys

INFOSYS TECHNOLOGIES LTD.

'Pavitra Complex', No.1, 2nd Cross, 27th Main, BTM Layout 1st Stage, Bangalore - 560 068. India
Tel: (080) 668 1755, 668 0182, 0183, 0184, 0185. Fax: (080) 668 0181. **E-mail: cathy@inf.com**
Branch Offices : **Delhi :** (011) 6514829, 6514830. Fax: (011) 6853366. **Mumbai:** (022) 2846490, 2882911, 2882914. Fax: (022) 2846...

SYMANTEC.

Infosys is the authorized representative of Symantec Corporation in India. All brand and product names are registered trademarks of their respective holders.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

SpiceAge PSpice Optimizer 6.2J It simplifies performance enhancements of analog circuit diagrams. **Price:** Rs 120,000 **Vendor:** Cranes Software International **RQS#** 71473

Design PC Boards Robust package for printed circuit board design. **Price:** Rs 132,000 **Vendor:** Advanced Micronic Devices **RQS#** 71474

Design Polaris CAE package for extracting transmission line, parasitic capacitance, coupling values from PCB design and applying them. **Price:** Rs 216,900 **Vendor:** Advanced Micronic Devices **RQS#** 71475

Design Pspice A/D Basics + with Schematics Analog/digital and mixed mode circuit simulator. **Price:** Rs 155,000 **Vendor:** Advanced Micronic Devices **RQS#** 71476

Design Pspice A/D with Schematics Analog/Digital and mixed circuit simulator and analyser with over 10,000 simulation models. **Price:** Rs 350,000 **Vendor:** Advanced Micronic Devices **RQS#** 71477

Design Schematics Circuit diagram graphical entry package for simulation, PCB designing, and hard copy printing **Price:** Rs 29,000 **Vendor:** Advanced Micronic Devices **RQS#** 71478

Autocad Ver.6.0 Drafting, 3D modeling and designing environment for architects, mechanical and civil engineers. **Price:** Rs 18,500 **Vendor:** Blue Information Technology Ltd **RQS#** 71479

Power Software for harmonic analysis, short circuit, transient stability, over-voltage, demand forecast, handles 1,000 buses,1,000 transformers, 100 generators and 1500 shunt capacitors. **Price:** Rs 900,000..1,100,000 **Vendor:** Macmet India **RQS#** 71480

Simulator for thermal, hydro and power plants. **Price:** Rs 750,000..1,500,000 **Vendor:** Macmet India **RQS#** 71481

Tripping analysis software that works independently or in tandem with data acquisition systems. **Price:** Rs 35,000 **Vendor:** Macmet India **RQS#** 71482

Model Order Reduction Toolbox Helps in obtaining less complex representation of a linear dynamic system. **Price:** Rs 40,000 **Vendor:** Cranes Software International **RQS#** 71483

Windchill 4.0 System for controlling and tracking engineering information and supports vector and raster files in several industry standard formats **Price:** Rs 9,900 **Vendor:** Infotech Enterprises Ltd **RQS#** 71484

Helps in design and analysis of a diverse range of engineering problems. **Price:** Rs 100,000 **Vendor:** Engineering Mechanics Research India **RQS#** 71485

NISA For finite element analysis. Includes linear/non-linear, static/dynamic heat transfer capabilities etc. **Price:** NA **Vendor:** Bell Engineering Software Services **RQS#** 71486

Control Network Toolbox Useful in aplications like pattern recognition and control. **Price:** Rs 60,000 **Vendor:** Cranes Software International **RQS#** 71487

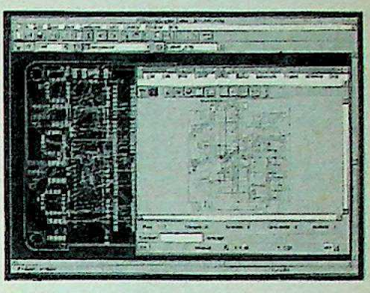
NISA Family of Finite Element Programs Caters to engineers. Modules include stress analysis, dynamics, thermal analysis etc. **Price:** Rs 840,000 **Vendor:** EMRC Engineering Mechanics Research **RQS#** 71488

Offshore Tool Kit Offshore hazard and risk analysis toolkit. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71489

DATAMINE-SPC Online statistical process control package. Collects data directly from probes, digital instruments and provides means, charts, histograms etc. **Price:** Rs 19,000..23,000 **Vendor:** Data System Services Pvt Ltd **RQS#** 71490

Open Inventor Object oriented 3D tookit for CAD, design and imaging. **Price:** Rs 100,000 **Vendor:** Zon Marketing **RQS#** 71491

Optimization Toolbox Set of routines for non-linear optimization, linear programming and so on. **Price:** Rs 40,000 **Vendor:** Cranes Software International **RQS#** 71492



Electronic design automation, though still on workstations at the chip design level, has several Windows products for PCB design

SOFTWARE
CAD/SCIENTIFIC

2,168 Asian Students On The Path To An International B. Tech. Degree*.

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

** Degrees will be awarded directly from The Open University. Students will also get diplomas from Aptech.*

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

APTECH
COMPUTER EDUCATION
We change lives

OVERTURE (AIL-238/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PROTECTOR PLUS ver 5.0

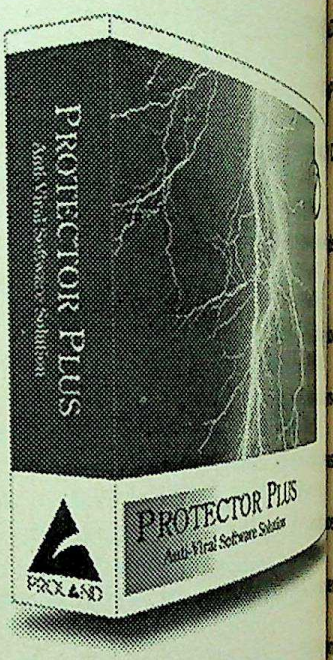
Anti-viral Software Solution

Compatible with:

- Windows 95
- Windows 3.1
- MS-DOS
- Novell-DOS
- OS/2

Introducing **Protector Plus ver 5.0**. The anti-viral software solution for stand-alone PCs. Its installation immunises the system against virus infiltration. Unlike other products in the anti-virus category that largely depend on a scan routine to detect presence of virus, **Protector Plus** has on-line virus prevention system working round-the-clock.

- All types of boot viruses—known or unknown are automatically eliminated. Boot sector and partition table can be rebuilt.
- Monitors system for viral-like activity, preventing new file viruses from entering the system.
- Can detect changes in status of files and reconstruct them to their original state.
- Scans all files accessed, through any operation—read, write, copy, install, download, unzip, execute, etc...
- Select directories or entire drives can be scanned automatically at pre-scheduled intervals.
- Extensive and exhaustive reports on viral activity and scan results.



Anti-Viral Software Solution

Write, call or fax us for further information on this exciting new anti-viral software

PROLAND SOFTWARE PVT. LTD.,
19, Gangadhar Chetty Road, Bangalore-560 042
Phone: (080) 570033, 5511091 Fax: (080) 5511091
E-mail: subbu.proland@axcess.net.in

WE PRODUCE INTELLIGENT SOLUTIONS

Protector Plus For NetWare
Your Future Proof Solution to virus problems

Distributors:
ADIT MICROSYS (P) Ltd., **Ahmedabad** Tel: 079-408045, Telefax: 6425256
ANSI SYSTEMS (India) Pvt. Ltd., **New Delhi** Tel: 011-6863287, 6854196 Telefax: 6968663

Dealers:
Ahmedabad: Manan Enterprises Tel: 490338, Fax: 493-406; Bhavi Electromech, Telefax: 6633234 **Bombay**: Software Consultancy Group, Tel: 022-4301175/4302072, Fax: 4224912, E-Mail: bombay.scg@axcess.net.in **Coimbatore**: Systems, Tel: 0422-212328 **New Delhi**: R.R. Computers, Tel:7510479 Astra Infotech, Tel: 6222191, Fax: 6447252 **Ernakulam**: Spiegel, Tel: 348202 **Gangtok**: Sikkim Computer Services (P) Ltd., Tel: 03592-22279, Fax: 22543 **Goa**: Enterprises Tel: 0832-736262/3 **Hubli**: Tolas Electronics, Tel: 65 227 **Hyderabad**: Susha Technologies Tel: 391554 Fax: 243634; **Jamshedpur**: Engineers & Consultants, Tel: 0657-29655, Fax: 26450 **Kanpur**: Jyothi Electro-Mech Tel: 310811 **Kochi**: Spiegel, Tel: 0484-348202, Fax: 370136 **Ludhiana**: Litratim Microspecialities, Tel: 4561-45567 455860 **Madras**: Software Consultancy Group, Tel: 044-4340942, 4342938 Telefax: 4348912 **Nagpur**: Datacode Computer System, Tel: 221128, Fax: 236398 **Poona**: Link Software & Systems (P) Ltd., Tel: 335988/349342, Fax: 212-365694. **Punjab**: Rihal Computer Services, Tel: 01882-26294, 22385 **Rajkot**: Softrak Computer Consultancy Tel: 48840 **Secunderabad**: Software Consultancy Group, Tel: 816216, 817075, 867039, Fax: 817075 **Trivandrum**: Computer Systems Pvt. Ltd., Tel: 471-62094

DEALERSHIP ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

For wide-ranging design requirements, entire suites cover the design workflow from layout to simulation

Nimber Facilitates the optimum utilization of sheet area by reducing scrap percentage. **Price:** Rs 47,000 **Vendor:** Abcon Information Systems **RQS#** 71493

OrCAD/PLD 386+/DOS OrCAD's advanced logic synthesis tool supports all types of programmable logic devices. **Price:** Rs 169,180 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 71494

OrCAD Capture for Windows Complete schematic entry package, allows all design related tasks to be tied together under one design environment. **Price:** Rs 57,860 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 71495

OrCAD Simulate for Windows Easy-to-use simulator to test logic design. **Price:** Rs 169,180 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 71496

OrCAD Layout for Windows Its automated features allow you to design PCB and so on. **Price:** Rs 241,780 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 71497

Beam v3.0 Automates process of calculating and drawing CAM profiles. Output can be ported to CAD packages through DXF files. **Price:** Rs 80,000 **Vendor:** Supreme Technologies **RQS#** 71498

Linkec v3.1 Models plane mechanisms composed of links, gears, pivoted joints, sliders, pistons etc. **Price:** Rs 45,000 **Vendor:** Supreme Technologies **RQS#** 71499

Micros-2000 A comprehensive PCB designing software. **Price:** Rs 1,39,000 **Vendor:** Omikron Systems **RQS#** 71500

Cadam Software for 2D and 3D drafting and designing, surface modeling and machining. **Price:** Rs 325,000 **Vendor:** KRS Electronics **RQS#** 71501

PVDesigner v4.13 Software for ASME or BS5500 code calculations. User friendly, built-in material databases, calculations for shells, heads, bases, flanzes and nozzles under internal or external pressures. **Price:** Rs 175,000 **Vendor:** Supreme Technologies **RQS#** 71502

Micros-PowerPCB Software for PCB design. Has rule-driven PCB editor, electrodynamic checking, dynamic route editor, shape based autorouter and DXF Link. **Price:** Rs 260,000 **Vendor:** Omikron Systems **RQS#** 71503

Prorus 2D & 3D drafting and parametric designing software. **Price:** Rs 69,900 **Vendor:** KRS Electronics **RQS#** 71504

Personal Designer Front-end modeller with finite element analysis and manufacturing apps. **Price:** Rs 1,52,000 **Vendor:** Tata Elxsi **RQS#** 71505

Trace Modelling tool for hazardous chemical releases. Provides concentration radiation and over pressure predictions. **Price:** NA **Vendor:** Bell Engineering Software Services **RQS#** 71506

Phoenics General purpose software for the simulation of fluid flow, heat transfer, chemical reaction and combustion. **Price:** Rs 10,800 Pounds **Vendor:** CDAC **RQS#** 71507

Flownet Software for flow analyis on pipe and duct networks. Useful in utility system design. **Price:** Rs Price on request **Vendor:** Bell Engineering Software Services **RQS#** 71508

Piping/Plumbing/Electric/HVAC-S7 Piping is used to generate single-line isometric double-line and fully 3D render-ready piping systems. Plumbing helps in drafting and layout of a building's piping systems. **Price:** Rs 16,500 **Vendor:** HOPE **RQS#** 71509

Plan & Elevations S7 Gives plan, elevation and sectional detailing of steel concrete,masonry, timber and composite members. Database support for 2D and 3D structural detailing. Online material detailing. **Price:** Rs 16,500 **Vendor:** HOPE **RQS#** 71510

Indo CAD-Draft 4.3 Indigenously produced MS-Windows based drafting software which is being exported. **Price:** Rs 25,000 **Vendor:** OMC Computers Ltd **RQS#** 71511

Flowside v3.0 Software for generating process flow diagrams, P&ID andequipment specification sheets. **Price:** Rs 80,000 **Vendor:** Supreme Technologies **RQS#** 71512

SOFTWARE
CAD/SCIENTIFIC

GET AN INTERNATIONAL B.TECH. DEGREE*
WITHOUT LEAVING *India.*

The All-India Entrance Exam will be held at all Aptech Centres on July 28, 1996.
Contact our counsellors for prospectus and admit cards.

*Degrees will be awarded directly from The Open University.
Students will also get diplomas from Aptech.

INTERNET: Open University: http://www.ola.bc.ca/ Aptech: http://www.indiaworld.com/aptech

APTECH
COMPUTER EDUCATION
We change lives

OVERTURE (AIL-237/96)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AutoDesk

The world's CAD standard

CAD is AutoCAD Rel 13

AutoCAD Release 13

AutoCAD Release 13 adds more features and major drafting and design capabilities than ever before. The interface takes full advantage of modern components and conventions to facilitate ease of use.

Whatever the challenge - from designing a complex machine part to a soaring skyscraper, AutoCAD provides all the tools you need to draw, edit, annotate, visualize and plot any and every detail of your design.

Sharing AutoCAD data across documents and projects and within your company is easy with Release 13. Drawing information is where it should be, shortening the project cycle. External Database links using an SQL interface associate monograpic data stored in an external database with AutoCAD drawing entities.

AutoCAD provides a comprehensive set of tools for virtually every field, including architecture, engineering, construction, (AEC), facilities management, mechanical design and geographic information systems (GIS) mapping.

Let your imagination roam in 2D or 3D

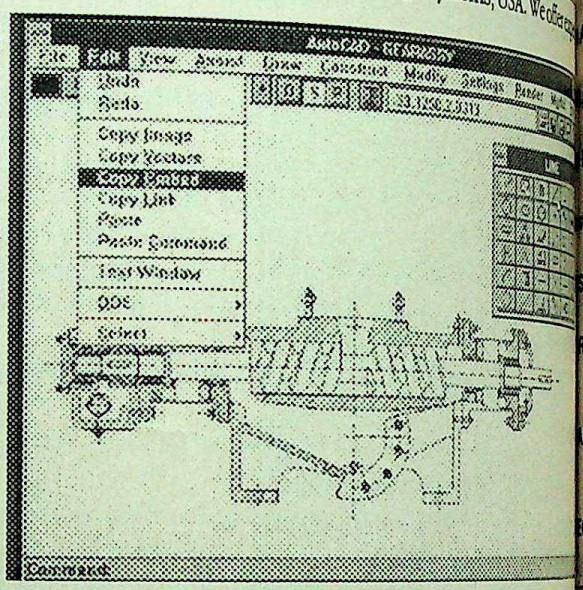
With the sophisticated rendering and visualization tools that come with AutoCAD, it's easy to conceptualize designs in 2D and 3D. Use the Region Modeler feature to extrude 2D drawings into solid 3D models. Then use the Render tool to add illumination and apply reflective surface finishes that add realism to the final drawing-and impact to presentations.

Share your work with the world

It's easy to exchange AutoCAD drawings with clients and vendors using AutoCAD software's widely supported DXF™ format.

The Binary Advantage

We are an organisation which is over 10 years old.Amongst the top 100 IT companies in India, we have over 200 people working out of a network of 10 offices, including one in the US, and a 100% software EOU near Delhi, to execute large business application projects using RDBMS and GUI development tools. We have executed several large projects like East-West Airlines, Minda Industries Limited, ICI, UNICEF, Nirula's, CRY in the recent past.



Binary Semantics is the single largest source for ***Microsoft, Lotus, Borland, SCO, Autodesk, Novell, Oracle, Sybase*** and many more software packages. With our vast experience and technical expertise we offer integrated solutions based on these products. We have recently connected over 400 branches of Corporation Bank on e-mail. Similarily we have connected Sandoz, Boots and other large organisations. We also train the end-u... effectively use these products.

We are the largest provider of A... products in the country. Our CAD ... Division has strategic alliances for CA... plant design software for process in... from Orange systems, USA. We offer ...

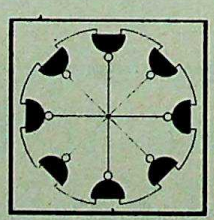
... with dedicated manpower for ... and troubleshooting CAD / CAM soft...

With the immense popularity in mi... products, we have added a large ... CD-ROM titles for Games, Educatio... our range.

So the next time you think softwar... Binary, you're in safe hands.

For a free colourful Software Finder cover... thousands of products from round the worl... please write to us at any of our offices.

HOPE is the Country Distributor of AutoCAD products.
Binary is the National Reseller for AutoCAD products.
For attractive offers and bundles of a vast range of products contact:



All names are the trademarks ... respective companies.

BINARY SEMANTICS LIMITED

CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, ***TEL:*** 91-11-579 5615, 579 8069, 579 6870, 579 6871, ***FAX:*** 91-11-57...
E-mail: binary.dli@adeskind.sprintrpg.sprint.com
OVERSEAS OFFICE: 2020, YALE AVENUE, CAMP HILL, P.A. - 17011, ***U.S.A.*** ***TEL:*** 717-731-8468, ***FAX:*** 717-731-9857
BRANCHES: BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, ***TEL:*** 91-080-221 5785, 224 0222, 224 1222, 224 ... ***FAX:*** 91-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, ***TEL:*** 91-033-472 9402, 473 3109, ***FAX:*** 91-033-473 0687; ***CHANDIGARH:*** S.C.O. 5885; ***BOMBAY:*** 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, ***TEL:*** 91-022-621 ... FLOOR, CHANDIGARH; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY, SECUNDERABAD - 500 026, ***TEL:*** 91-040-773 0399, ***FAX:*** 091-040-773 2811; ***PUNE:*** AQUA ... "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE - 411 030, ***TEL:*** 91-0212-44 806..., 43 2352, ***FAX:*** 91-0212-47 7829; ***MADRAS:*** 675, ANNA SALAI, ... MADRAS - 600 006, ***TEL:*** 91-044-852 4438, ***FAX:*** 91-044-852 4112

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...master Production planning and control software with various relevant modules, such as bill of materials, inventory control and sale and purchase of goods. **Price:** Rs 75,000 **Vendor:** Processware Systems Pvt Ltd **RQS#** 71513

...ssional XL Version Programs for process engineers. Library conversion calculator, project management and specification modules. **Price:** Rs 150,000 **Vendor:** Bell Engineering Software Services **RQS#** 71514

...ima/2 IBM-OS/2 based real-time generic SCADA package. Has networking, logging and reporting facilities. **Price:** Rs 150,000 **Vendor:** Jopasana Software Pvt Ltd **RQS#** 71515

...pGraph It creates and plots reports for pump testing as per ISI specifications. **Price:** Rs 15,000 **Vendor:** CADD Soft Technology **RQS#** 71516

...peng 1.0 Calculates the right size of a pumpset required by a farmer depending upon various factors. **Price:** Rs 4,999 **Vendor:** Essjay Computer Consultancy **RQS#** 71517

...Analyst 2.0 You get all the information you need to improve quality to meet your customers' and managements' requirements. **Price:** Rs 36,950 **Vendor:** Wipro Ltd **RQS#** 71518

...Analysis Suite 1.0 For modeling building frames, trusses and grids. Offers 3D graphics,and animation. **Price:** Rs 4,995 **Vendor:** Struct CADD Sector **RQS#** 71519

...esign Suite 1.0 Software for creating limits-state design of beams, columns, slabs, staircases etc. **Price:** Rs 13,995 **Vendor:** Struct CADD Sector **RQS#** 71520

...tion Edit V 1.0 Provides a powerful and accurate method to modify, update and plot scanned paper drawings. **Price:** Rs 40,000 **Vendor:** HOPE **RQS#** 71521

...S 6.1 Data analysis package with popular statistics, Complete graphics, data management and reporting capabilities. **Price:** Rs 31,950 **Vendor:** Wipro Ltd **RQS#** 71522

...R Workbench 3.5 A data analysis software which supports all types of reports like tabular labels, bar coding forms in high volume, mission critical complex environments. **Price:** Rs 32,900 **Vendor:** Tata Elxsi **RQS#** 71523

...AD-III Rel. 2.1 Software for structural analysis and design. Graphical input/output, area/floor loads, moving loads, wind/earthquake load generator. 2D/3D, static/dynamic p-Delta/non-linear analysis. **Price:** Rs 49,500 **Vendor:** VVA Software **RQS#** 71524

...C Storage tank emission calculator. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71525

...y Classic/Micro/Toolkit Risk analysis tool that integrates consequences of accidents to generate risk results. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71526

...ph Electrical circuit layout/design package for executing turnkey electrical jobs—from schematic design to preparation of BOM and project cost estimation. **Price:** NA **Vendor:** Inventa Software **RQS#** 71527

...ph ET/S Windows CASE solution for mechanical/electrical software development and documentation. **Price:** Rs 323,734 **Vendor:** Inventa Software **RQS#** 71528

...tics-1076 2.0 Tool for design, analysis and documentation of digital circuits. Has a wide array of library components and generates VHDL. **Price:** Rs 39,995 **Vendor:** SiLicon Interfaces **RQS#** 71529

...ink 1.3c Powerful environment for modeling, analyzing and simulating dynamic nonlinear systems. **Price:** Rs 150,000 **Vendor:** Cranes Software International **RQS#** 71530

...rt Talk 9000 Instrument calibration system with customizable instrument database. ISO-9000 format maintenance activity logs. Indicates current process status. **Price:** Rs 40,000 **Vendor:** Jopasana Software Pvt Ltd **RQS#** 71531

...ware for Gauge Calibration-Ver 1.2 Calibrates plain limit guages and thread guages as per Indian standards. **Price:** Rs 5,800 **Vendor:** Productive Solutions **RQS#** 71532

...ic 1.0 Menu driven package to calculate various parameters of solar energy appliances. **Price:** Rs 4,999 **Vendor:** Essjay Computer Consultancy **RQS#** 71533

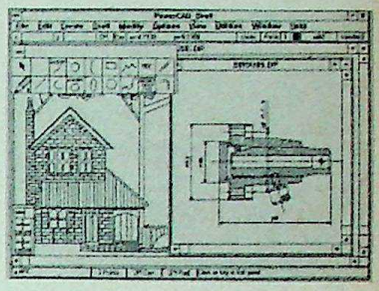
...s Explorer GIS software used in environmental analysis and other planning apps. **Price:** US$ 3,000 **Vendor:** Centre for Development of Advanced computing **RQS#** 71534

...sor-300 Supervisory control and data accquisition package, for data logging, trend plotting and automatic report generation in sugar and steel plants. **Price:** Rs 200,000..350,000 **Vendor:** SPA Computers Ltd **RQS#** 71535

...ysis Transform 1.0 Data visualization tool for 3-D plotting for scientific and engineering apps. **Price:** Rs 35,990 **Vendor:** Unison Computer Systems **RQS#** 71536

...Detailer-S7.5 System to create shop fabrication drawings by teaming structural information with parametric programs. **Price:** Rs 85,000 **Vendor:** HOPE **RQS#** 71537

...ade 1.0 Processes survey data of station equipment. Uses co-ordinate geometric calculations including graphics and feature coding. **Price:** Rs 3,500 **Vendor:** Veritable CADD Solutions **RQS#** 71538



Among the niche CAD products on the market are a number of Indian packages, such as OMC's PowerCAD Draft

SOFTWARE
CAD/SCIENTIFIC

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

THE PIONEER INNOVATIVE MULTILINGUAL UNVEILS SOLUTIONS

Presenting the finest range of multilingual solutions Shree ... **Shabda Sagar**, Shree L... **Prateek Pro** and **Multikeys**.

Brought to you by Modular, ... product is a result of painst... research and years of experience. ... ultimate range in multilingual so... is available in over **80 cities** and ... installed base of over **10,000** user...

Shree Lipi : Shree Lipi is an Indian l... script processor under MS Windows ... collection of fonts and utilities compri... both **IBM PC and Macintosh**. The ... in desktop publishing, it supports th... collection of Indian typefaces in all ... scripts and has a variety of keyboard l...

Shabda Sagar : Shabda Sagar is a DO... **multilingual word processor** with com... that are similar to Word Star. User fri... the core, it supports a majority of pi... use. Another attractive option is the av... of a variety of keyboard layouts.

Shree Lekha : Shree Lekha is a DO... Indian language script processor availa... **fonts for multimedia** video graph... diverse features support various ap... including Autodesk Animator & 3D S...

Prateek Pro : A software packa... preparing General Purpose Identity ... Indian Languages, its applications can ... Labels, Tags etc also. The package in... simple data base editor, along with ... grabbing module, flexible layout desig... printing module for use in both B/W & ... photographs as well as text.

Multikeys : Multikeys is a DOS ... keyboard layout handler for Indian L... to be used with GIST cards. It allows ... of popular keyboard layouts like A... Godrej, Ramington etc. Also ava... program for generating user defined ...

For more details contact :

Modular Systems

26, Electronic Co-op. Estate, Pune Satara Road, Pune - 411 009.
Tel. : 0212-437994/423510. Fax : 0212-425896/452323.
E-MAIL : MODULAR.PUNE@SM08.SPRINTRPG.SPRINT.COM

National Distributors :

Cirrus Electronic Systems Ltd.
H.O.: Kamla Heights, Cirrus Chambers, 433/D, Somwar Peth, Pune-411 001 Tel.: 633226/632236/630237. Fax: 0212-631132.
Branches : ● Ahmedabad ● Bangalore ● Bombay ● Cochin ● Delhi ● Hyderabad ● Madras ● Nagpur ● Vizag

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Survey 97 Provides all survey adjustments, error calculations, transformation traversing and all astronomical survey calculations. **Price:** Rs 33,000 **Vendor:** HOPE **RQS#** 71539

Workstation Package for thermal and mechanical design of air-cooled, shell and tube heat exchangers. **Price:** Rs 540,000 **Vendor:** Hinditron Informatics Ltd **RQS#** 71540

-II Logistic and process simulation software. Simulation of models can create self running presentations. **Price:** Rs 480,000 **Vendor:** Cranes Software International **RQS#** 71541

Simulates continuous jet releases and assesses effects of toxic and flammable clouds produced by pressurised releases from a ventor stack. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71542

DSP Blockset Its GUI Interface provides interactive simulation and evaluation of DSP algorithms. **Price:** Rs 26,000 **Vendor:** Cranes Software International **RQS#** 71543

Vector, Power Transmission Price: Rs 60,000 **Vendor:** HOPE **RQS#** 71544

Raster Trio Raster-to-vector converter that can be used to convert paper drawings to AutoCAD. **Price:** Rs 158,500 **Vendor:** CADD Centre **RQS#** 71545

Trouble Shoot v1.0 Equipment troubleshooting, data maintenance and query software. **Price:** Rs 3,500 **Vendor:** Supreme Technologies **RQS#** 71546

SHOCKS Rigorous screening tool for gas explosion simulation. **Price:** NA **Vendor:** Bell Engineering Software Services Pvt Ltd **RQS#** 71547

UNITS v1.0 Units conversion software. Covers 23 engineering and scientific categories. **Price:** Rs 3,900 **Vendor:** Supreme Technologies **RQS#** 71548

Graphics 10.x Helps in designing through collaborative engineering and advanced process automation. **Price:** Rs 800,000..1,500,000 **Vendor:** Tata Consultancy Services **RQS#** 71549

Model 2.0-Verilog Simulator OVI-compliant implementation of Verilog HDL. **Price:** $995..4,990 **Vendor:** SiLicon Interfaces **RQS#** 71550

Cartographer 5.0 GIS software to correlate text and numeric data with facility for various levels of complex queries. **Price:** Rs 50,000 (DOS); 125,000 (Unix) **Vendor:** Computer Vision Laboratories **RQS#** 71551

Designer Ver 12 2D and 3D design, drafting and modelling software for complex engineering objects. **Price:** Rs 30,000 (DOS); 80,000 (Unix) **Vendor:** Computer Vision Laboratories **RQS#** 71552

Draw 2D drafting software. **Price:** Rs 15,000 (DOS); 45,000 (Unix) **Vendor:** Computer Vision Laboratories **RQS#** 71553

GNC Software for modelling complex components and generating part programs automatically for CNC machines. **Price:** Rs 80,000 (DOS); 150,000 (Unix) **Vendor:** Computer Vision Laboratories **RQS#** 71554

Landscape Software for analysis of remote-sensing data from aerial and satellite imagery. **Price:** Rs 200,000 **Vendor:** Computer Vision Laboratories **RQS#** 71555

Surveyor Automatic plotting facility to prepare site maps from survey measurements. **Price:** Rs 175,000 **Vendor:** Computer Vision Laboratories **RQS#** 71556

Wavelet Toolbox Provides functionality for analysis, synthesis, de-noising and compression of images and signals. **Price:** Rs 59,000 **Vendor:** Cranes Software International **RQS#** 71557

Dialog Machine User configurable software for reading and automatic calculation.Stores data in.DBF format **Price:** Rs 1,500 **Vendor:** Decision Plus Systems Inc. **RQS#** 71558

COMPILERS

ADA Compiler Validated ADA compiler for mission-critical apps. **Price:** Rs 25,000..100,000 **Vendor:** Dharma Computers **RQS#** 71559

Batch 5.0 Useful DOS-based tool for spreadsheet users that lets them convert worksheets into EXE files. **Price:** Rs 11,490 **Vendor:** Unison Computer Systems **RQS#** 71560

Visual C++ 5.0 with Java Support C++ compiler with free integrated Internet development tool for JAVA. **Price:** Rs 25,950 **Vendor:** Wipro Ltd **RQS#** 71561

Fortran 90 Optimized Fortran 90 compiler. **Price:** Rs 40,000 **Vendor:** CDAC **RQS#** 71562

80x86 Assembler Assember and disassembler program. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71563

LISP 1.0 LISP-compatible interpreter. Supports data types, assignment functions, predicates, arrays, structures etc. **Price:** Rs 18,000..24,000 **Vendor:** Frontier Information Technologies Ltd **RQS#** 71564

PROLOG 1.0 Prolog interpreter with interactive usage, program mode, online debugging and built-in editor. **Price:** Rs 15,000..21,000 **Vendor:** Frontier Information Technologies Ltd **RQS#** 71565

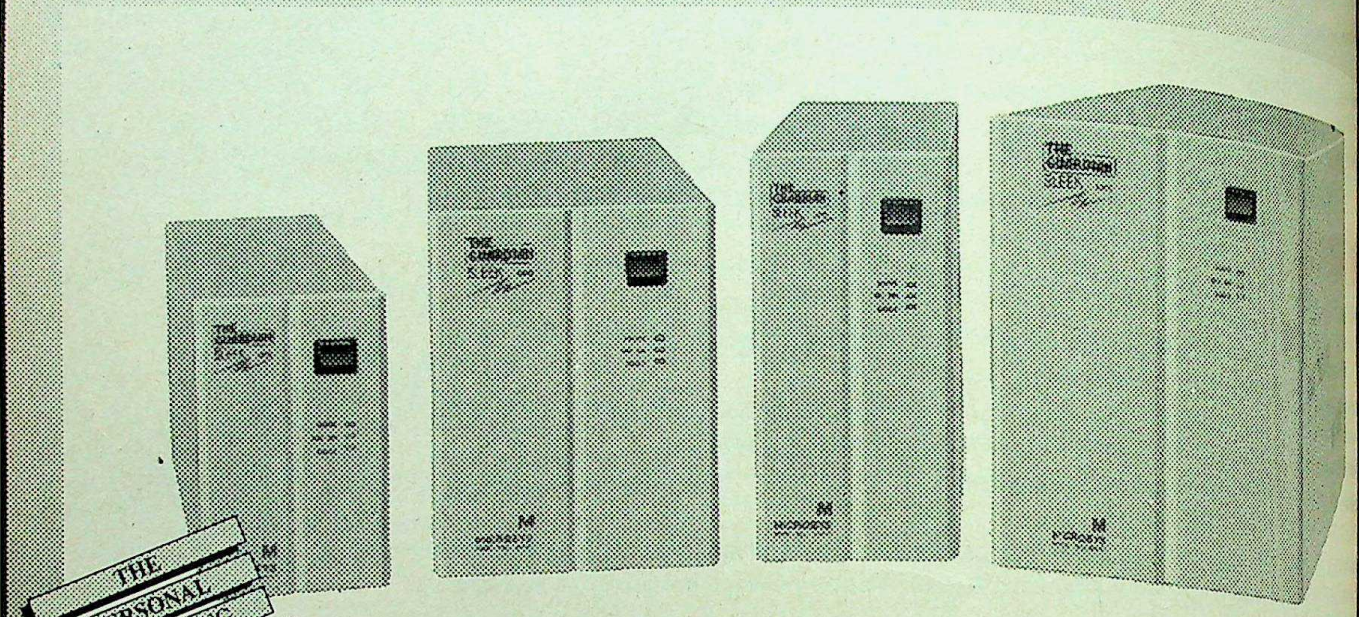
One of the favorites among programmers, from Borland, which introduced the IDE with Turbo Pascal

SOFTWARE COMPILERS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BEST CHOIC
UPS



THE PERSONAL COMPUTING MAGAZINE

PC QUEST

WINNER

"THE GUARDIAN SLEEK UPS" emerges as India's foremost UPS Brand
Rated No. 3* ahead of all imported brands by PC QUEST Labs & IIT Delhi

● QUALITY ● PERFORMANCE ● COMPATIBILITY TO INDIAN CONDITIONS ● COST PER VA

THE GUARDIAN SLEEK UPS

Get the Guardian
Get the Winning Edge

Free

Write to us for a free informative booklet on choosing the right UPS.

MICROSY
India's most progressive UPS com

● **HEAD OFFICE :CHANDRAAT 99, MAYUR COLONY, KOTHRUD, PUNE - 411 029. TELEFAX :(0212) 344167 Mktg. Office TELEFAX:(0212) 364355**

● **REGIONAL OFFICES :** ▲ **BANGALORE** : 3324492, ▲ **CALCUTTA** : 4782578, ▲ **DELHI** : 2227901/5826

● **BUSINESS PARTNERS : MAHARASHTRA** ▲ AURANGABAD Memory Marketing : 332159 ▲ KOLHAPUR Pioneer Electromatic : 657077 ▲ PUNE: Atson Sales: 637908 Sky Computer Sales: 337 Radek Systems : 361491 Logitech Systems : 477996 ▲ MUMBAI Surya Automation Enterprises : 8371661 Rank Computers : 3827632 Kaytech : 3871853 ▲ NAGPUR Business Appointments : 5 Brain Computers : 222375 ▲ SOLAPUR Computronics : 26389 ● **GUJRAT :** ▲ SURAT Allway Systems : 636461 ▲ AHMEDABAD Satellite Electronics & Controls : 6753584 ● GOA ▲ PANJIM Tri-Star : 223712 ● **M. P.** ▲ INDORE P & P Computers : 471890 ● **KARNATAKA :** ▲ BANGALORE Siddhartha Enterprises : 3362893 ▲ DHARWAD Kidiyoor Electomics : 347504 ▲ DAVANGERE Micro MYSORE hadurang Compuware : 35988, MANGALORE : Cnet Systems : 428685 ● **KERALA :** ▲ COCHIN : Leela Systems : 354695 ● **T. N. :** ▲ MADRAS Horizon Marketing : 8264058 ▲ HYDERABAD Shanti Marketing & Services P. Ltd. : 290124 ● **ORISSA :** ▲ CUTTACK Tauras Combine : 614292 ● **WEST BENGAL :** ▲ CALCUTTA Odyssey Computers : 2214201 Powermatic ASANSOL Computer Information Systems : 206425 ● **ASSAM :** ▲ GUWAHATI Swift Systems : 523367

Business partners welcome in unrepresented areas.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...51 cross compiler for 8051 microcontroller series. **Price:** Rs 11,990 **Vendor:** Innovex Systems **RQS#** 71566

...C cross compiler for 8085 microprocessors. **Price:** Rs 8,990 **Vendor:** Innovex Systems **RQS#** 71567

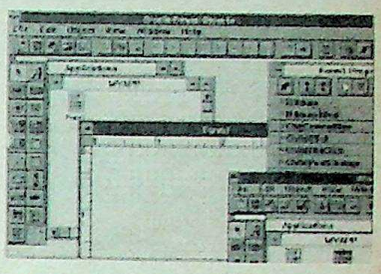
...ab Compiler + C-Math Library Lets you create optimized, high performance "C" code. **Price:** Rs 99,000 **Vendor:** Cranes Software International **RQS#** 71568

...rLISP 2.0 Editor and debugger for AutoLISP. **Price:** Rs 12,000 **Vendor:** Symphony Engineers **RQS#** 71569

...nal Rose/C++ Supports round-trip engineering with forward and reverse engineering of C++. **Price:** $3,000 **Vendor:** Object Oriented Interactive Software **RQS#** 71570

...ntec C++ Professional 7.2 Comes with an integrated development and debugging environment. **Price:** Rs 16,800 **Vendor:** Infosys Technologies Ltd **RQS#** 71571

...l Baler 1.0 Helps in creating EXE files for spreadsheet users. **Price:** Rs 10,590 **Vendor:** Unison Computer Systems **RQS#** 71572



Objects have turned software development around on its face, with reusable drag-and-drop components and code

DATABASE

...my 3.12 Database retrieval system specially designed for creating large Windows databases for document storage and retrieval on CD-ROM. **Price:** Rs 1,20,000 **Vendor:** Informatics (India) **RQS#** 71573

...nd Delphi Client Server Suite 2.0 A rapid application development tool with a scalable database architecture. **Price:** Rs 99,950 **Vendor:** Wipro Ltd **RQS#** 71574

...nd Paradox 7.0 A database software. **Price:** Rs 9,950 **Vendor:** Wipro Ltd **RQS#** 71575

...pen Ingres 1.1 RDBMS which supports client/server technology for mission-critical apps. **Price:** Rs 500,000..550,000 **Vendor:** Mastek Ltd **RQS#** 71576

...Server Products Collection of over 25 RDBMS engines for LAN and UNIX and other client/server networking tools for connectivity to heterogenous back-ends like Oracle, Sybase, Informix, SQL etc. **Price:** NA **Vendor:** Inventa Software **RQS#** 71577

...Database Application Collection of database and RDBMS apps. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71578

...RDBMS Pack Collection of shareware RDBMSs. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71579

...timate Database Collection Set of database programs. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71580

...se Pack Collection of shareware databases including File Express, PC-File and Ultrase. **Price:** Rs ...99 **Vendor:** Databank Systems **RQS#** 71581

...LVA Features include Clipper-based PLL, OOPS, ODBC, hotkeys, function keys etc. **Price:** Rs ...9,500..21,500 **Vendor:** Rameswar Automation **RQS#** 71582

...o DOS Professional Useful in the development of apps with a'C' interface and connectivity to back end databases. **Price:** Rs 28,390 **Vendor:** Sonata Software Ltd **RQS#** 71583

...RDBMS Includes back-end server and front-end development tool for client/server implementation. **Price:** Rs 60,000..70,000 **Vendor:** Inventa Software **RQS#** 71584

...ix RDBMS database servers and tools with standard engines. **Price:** Rs 200,000 **Vendor:** Silverline Industries **RQS#** 71585

...z Enables database maintenance, querying and printing through forms. **Price:** Rs 1,870 **Vendor:** ...OIT Thems TSC **RQS#** 71586

...4.2 ANSI SQL 92 and ODBC compliant RDBMS. **Price:** Rs 125,000 **Vendor:** Coromandel Software ...td **RQS#** 71587

...se 4.0 Workgroup Server SQL database server. **Price:** Rs 32,950 **Vendor:** Wipro Ltd **RQS#** 71588

...ta Vending Machine Provides offline database access with distributed database. **Price:** Rs ...50,000 **Vendor:** Triumph Research & Holdings Pvt Ltd **RQS#** 71589

...ss 2.00 Microsoft's database tool. **Price:** $148..411 **Vendor:** Ultimedia System Associates **RQS#** 71590

...Pro (DOS) DBMS product for the PC. **Price:** Rs 4,720 **Vendor:** Sonata Software Ltd **RQS#** 71591

... Server 6 RDBMS designed for use with a 32-bit OS. **Price:** NA **Vendor:** Sonata Software Ltd **RQS#** 71592

...7 Open, relational database for enterprise systems running mission-critical apps. **Price:** Rs 32,000 **Vendor:** Tata Consultancy Services **RQS#** 71593

...Work Group/2000 & Developer/2000 Interfaces OLE-compiant applications to Oracle database. **Price:** Rs 7,895 **Vendor:** Hexaware Infosystems Ltd **RQS#** 71594

SOFTWARE DATABASE

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Lotus

A new way to work tog

Lotus Notes - Synergises organizational activities towards common business go

Notes: The Groupware Standard

Not only has ***Lotus Notes*** defined a new breed of software called ***Groupware***, it's changed the way businesses do business. It has helped thousands of companies break down traditional barriers and create alliances that extend across departments and beyond the walls of the organization. Now teams can work together in smarter, faster, more productive ways and get more done with few resources.

What is Lotus Notes ?

Lotus Notes is a powerful platform for developing strategic systems. ***Notes*** allows companies to be proactive, to pool knowledge and work together and have a competitive edge over others.

Lotus Notes allows you to :

- Access
- Track
- Share
- Organize

NOTES

.... information in ways never before possible.

What companies do with Notes?

Reference application: In which information is organized for group reference for creating a shared, group information resource.

Routing applications: Delivers information to specific individuals or groups that are useful for automating repetitive tasks or processes.

Tracking applications: Allows team to track work processes and manage group interactions, and thereby improving the quality of interactions and ensure accountability for work tasks.

Notes unites workgroups across platforms and organizations

It runs on all the popular platforms and OSs like Windows 95, Windows NT, OS/2, UNIX, Macintosh, Solaris and NetWare. This makes it easier than ever for workgroups to communicate and collaborate across an entire organization - even in a mixed computing environments.

Why Notes ?

- ***Notes*** is fully compatible with any leading Client/Server
- Integrate a variety of multimedia datatypes such as scanned images, voice, data and video conferencing
- Take advantage of ***Notes*** open interface through ***Notes*** APIs, Mail APIs, OLE and ***Notes/FX*** technology to include Lotus desktop applications
- ***Notes*** application development tools range from the simple to the sophisticated. Its easy to extend the reach, scope and influence of ***Notes*** throughout your organization
- Build strategic business solutions that reach all the members of your extended team—including your customers—no matter where they are or what platform they operate on

The Binary Advantage

We are an organisation which is over 10 years old. Amongst the top 100 IT co... India, we have over 200 people wor... a network of 10 offices, including one ... and a 100% software EOU near Delhi ... large business application projects ... and GUI development tools. We ha... several large projects like East-West ... Minda Industries Limited, ICI, UNICO ... CRY in the recent past.

Binary Semantics is the single large... for ***Microsoft, Lotus, Borland, Autodesk, Novell, Oracle, Sybase*** ... more software packages. With ... experience and technical expertise ... integrated solutions based on these ... We have recently connected over ... of Corporation Bank on e-mail. S... have connected Sandoz, Boots and ... organisations. We also train the ... effectively use these products.

We are the largest provider of ... products in the country. Our C... Division has strategic alliances for ... plant design software for process ... from Orange systems, USA. We offer ... with dedicated manpower for handling ... troubleshooting CAD / CAM software.

With the immense popularity in ... products, we have a large number of ... titles for Games, Education, CBTs.

So the next time you think soft... Binary, you're in safe hands.

For a free colourful Software Finder ... thousands of products from round the ... please write to us at any of our offices.

All names are the tra... respective ...

TCS is the Country Distributor of Lotus Notes.
Binary is the National Reseller for Lotus Notes.
For attractive offers and bundles of a vast range of products contact:

BINARY SEMANTICS LIMITED

CORPORATE OFFICE: A-6, C BLOCK COMMUNITY CENTRE, NARAINA VIHAR, NEW DELHI - 110 028, ***TEL:*** 91-11-579 5615, 579 8069, 579 6870, 579 6871, ***FAX:*** 91-11-...
E-mail: binary.dli@adeskind.sprintrpg.sprint.com
OVERSEAS OFFICE: 2020, YALE AVENUE, CAMP HILL, P.A. - 17011, ***U.S.A.*** ***TEL:*** 717-731-8468, ***FAX:*** 717-731-9857
BRANCHES: BANGALORE: 15, PRAKASH COMPLEX, LAL BAGH ROAD (NEAR SUBBAIAH CIRCLE), BANGALORE - 560 027, ***TEL:*** 91-080-221 5785, 224 0222, 224 1222, 224 5885; ***BOMBAY:*** 45-46, 'A' WING, MADHUKUNJ-2, OPP. SHRIRAM SCHOOL, JUHU CROSS LANE, UPASHRAY PATH, ANDHERI (WEST), BOMBAY - 400 056, ***TEL:*** 91-033-473 0687; ***CHANDIGARH:*** S... ***FAX:*** 91-022-670 5762; ***CALCUTTA:*** 348A, SECOND FLOOR, JODHPUR PARK, CALCUTTA - 700 068, ***TEL:*** 91-033-472 9402, 473 3109, ***FAX:*** 91-033-473 0687; ***CHANDIGARH:*** S... FLOOR, CHANDIGARH; ***HYDERABAD:*** 10-3-3/8(5) 2ND FLOOR, EAST MARREDPALLY, SECUNDERABAD - 500 026, ***TEL:*** 91-040-773 0399, ***FAX:*** 091-040-773 2811; ***PUNE:*** "AQUA HOUSE", 263/1, PARVATI SINGHAGAD ROAD, NEW PARVATI BRIDGE, PUNE - 411 030, ***TEL:*** 91-0212-44 8063, 43 2352, ***FAX:*** 91-0212-47 7829; ***MADRAS:*** 675, ANNA ... MADRAS - 600 006, ***TEL:*** 91-044-852 4438, ***FAX:*** 91-044-852 4112

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Desktop DBA Windows based database administration and migration tool. **Price:** $995..6,995 **Vendor:** Ashok Leyland Information Technology Ltd. **RQS#** 71595

SQL Commander Windows-based query and editing tool. **Price:** $195..1,755 **Vendor:** Ashok Leyland Information Technology Ltd. **RQS#** 71596

SQL Port Helps rapid import/export of ASCII delimited data between Sybase SQL servers and MS SQLserver databases. **Price:** $99..890 **Vendor:** Ashok Leyland Information Technology Ltd. **RQS#** 71597

s V.8 Object-oriented RDBMS. **Price:** Rs 12,000 upwards. **Vendor:** JK Technosoft **RQS#** 71598

s V.8 Database package. Offers network support, multi-file look up and natural language query. **Price:** Rs 12,450 **Vendor:** Infosys Technologies Ltd **RQS#** 71599

Rose/SQL Windows Brings the benefits of object modeling and iterative development to client or server. **Price:** $3,000 **Vendor:** Object Oriented Interactive Software **RQS#** 71600

base 6.0 Powerful RDBMS for decentralized apps on PC/LAN platforms. **Price:** Rs 44,000 **Vendor:** Akshay Software Technologies Ltd **RQS#** 71601

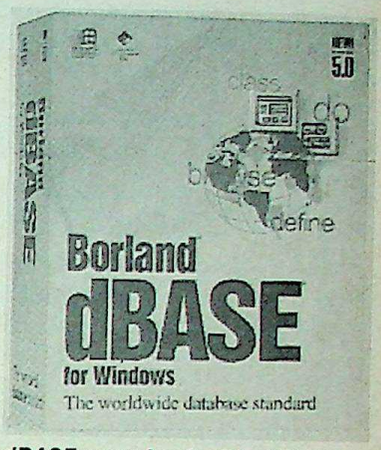
erver 6.0 RDBMS for Windows. **Price:** Rs 42,000 **Vendor:** Beta Information Technologies **RQS#** 71602

SQL Anywhere Scalable SQL-Database solution. **Price:** Rs 23,960 **Vendor:** Hexaware Infosystems Ltd **RQS#** 71603

FoxPro 3.0 Database product well integrated with Windows. **Price:** Rs 12,040..30,200 **Vendor:** Sonata Software Ltd **RQS#** 71604

dBASE 5.5 Client Server with Compiler Database software combined with visual tools. **Price:** Rs 35,950 **Vendor:** Wipro Ltd **RQS#** 71605

5.0 for DOS Object-oriented Client/server database with visual tools. **Price:** Rs 13,950 **Vendor:** Wipro Ltd **RQS#** 71606



dBASE came back with a Windows version and new object technology, but it wasn't soon enough to counter Windows databases like Access

DATACOM

tic Message Switching System Channels messages through the shortest available route. **Price:** Rs 85,000 **Vendor:** Transmatic Systems Ltd **RQS#** 71607

nication Pack Set of useful communications programs like Comhelp, Deadcat, Dialm, DS2 and Easynet. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71608

t 4 BBS software. Supports e-mail, file transfers, fax, LAN and online databases. **Price:** Rs 25,000 **Vendor:** Atul Chitnis Computing **RQS#** 71609

5.0 Communication software for data and fax. **Price:** Rs 3,100 **Vendor:** Nomus Comm Systems **RQS#** 71610

Demand Helps in providing information to the users on telephone and fax machines. **Price:** Rs 25,000 **Vendor:** BPL Telecom Ltd **RQS#** 71611

FAX Gateway Provides fax sending and receiving facilities to all users on the LAN. **Price:** Rs 20,500 **Vendor:** Bicnet Infoservices Pvt Ltd **RQS#** 71612

Internet Gateway Allows communication between two Infomax locations via the Internet. **Price:** Rs 20,500 **Vendor:** Bicnet Infoservices Pvt Ltd **RQS#** 71613

Messaging System Offers enterprise-wide communications through LAN, e-mail, FAX, gateway etc. **Price:** Rs 25,000 **Vendor:** Novasoft Systems **RQS#** 71614

WAN Gateway Offers LAN e-mail within office and between branches. Can have hub-spoke or point-to-point connectivity and can work over dial-up lines, leased lines, INET, VSAT and Internet. **Price:** Rs 20,500 **Vendor:** Bicnet Infoservices Pvt Ltd **RQS#** 71615

hare Video System Desktop video conferencing product. **Price:** Rs 160,0000 (ISDN version); 0,000 (LAN version) **Vendor:** Microland **RQS#** 71616

Voice Response It delivers automated replies to a caller's telephone by entering account mbers, product codes, and so on. **Price:** Rs 800,000..1,500,000 **Vendor:** BPL Telecom Limited, **RQS#** 71617

Switch Store and forwared message switch with multiple media connectivity gateway to X.400 stems. **Price:** Rs 250,000 **Vendor:** Triumph Research & Holdings Pvt Ltd **RQS#** 71618

Messaging software on multiple platforms which offers peer-to-peer connectivity and can send and receive faxes. **Price:** Rs 15,000..150,000 **Vendor:** Triumph Research & Holdings Pvt Ltd **RQS#** 71619

KronForms It helps to implement EDI in an organization effortlessly and efficiently. **Price:** Rs 00 **Vendor:** Triumph Research & Holdings Pvt Ltd **RQS#** 71620

t Place 5 Desktop TCP/IP connectivity product. Includes Netscape browser. **Price:** Rs 17,556 **ndor:** Kunhar Peripherals Pvt Ltd **RQS#** 71621

SOFTWARE
DATACOM

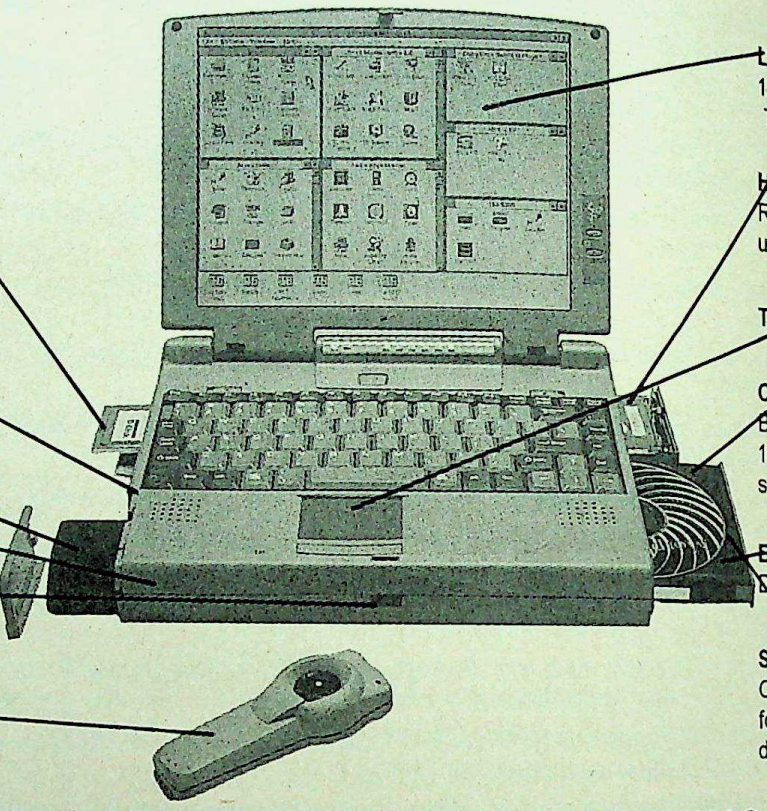
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Choose the future...

The Best You Waited To See!

Pentium 133 MHz - CD-Rom Notebo



PCMCIA CARDS
supports Type ii x2/ Type iii x 1

MPEG
Full Motion Picture Playback

CPU
Pentium P54C 3.3V or P55C 2.5V
upto 150 Mhz.
(Also available 486 DX4 models)

HOT SWAP BATTERY

RAM
upto 64 MB of main memory

IR PORT
for wireless comunication

IR MOUSE
Remote Control

LARGE DISPLAY
11.3" or 12.1" super
TFT or DSTN.

HDD
Removable
upto 1.3 GB

TOUCH PAD

CD-ROM DRIVE
Built in quad (4x)CD-
16 bit stereo sound
speaker/ mic

BUILT IN FLOPPY
DISK DRIVE

SECONDARY BATTE
Ootional or 3" Hard
for swapping with CD
drive module

YOUR GATEWAY TO REAL MULTI-MEDIA COMPUTING ERA IS HE

InnovACE™

The Innovative Notebook Specialist™

BUILT IN CD ROM WITH HOT BATTERY

Brand "InnovACE" USA-Holland: leading in

- 1992 World's First 386sx 25MHz Notebook
  First Notebook Built-in SCSI port
  World's First 386DX 40 MHz Notebook
- 1993 First Notebook Built-in Cyrix S/33 & DSTN LCD
- 1994 May World's First Notebook Built-in 12mm "CD-ROM", leading over 6 months

SAMTECH
COMPUTERS PVT. LTD.
10A/27, EAST PATEL NAGAR, NEW DELHI-110
FAX : 5734293, 5751683 TELEX : 031-77338
TEL.: 5734293, 5734225

Authorised Resellers:
BOMBAY: Thukral Trading Ltd. Ph.: 2053765, 2032283, Fax: 2083112 Synergy Information Technologies, Ph. 8369816 Fax.: 8325415 Fax: Ph.: 4453438, 4453332, Fax: 440072 **BHUVNESHWAR:** Oricomp Systems (P) Ltd. Ph.: 406180, 400343 Fax : 405875 **PUNE :** Pushpam Ph. 411279, 417885 Fax : 416455 **MADRAS :** Integral Computers Ph.: 8552846 **DELHI :** The Computer People Ph. : 4617229, 4690854 Fax.

DEALERS & O.E.M. ENQUIRIES SOLICITED

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ssage Multimedia message creation utility which works with Windows e-mail packages. **Price:** NA **Vendor:** Leviathan Systems **RQS#** 71622

Multimedia communication software. **Price:** NA **Vendor:** Leviathan Systems **RQS#** 71623

3.5 Electronic messaging service that provides easy-to-use communication for large and small organizations. **Price:** Rs 28,930 **Vendor:** Sonata Software Ltd **RQS#** 71624

ged Rack Modems Modem network management system. Monitors all modems on the network from a single terminal. **Price:** Rs 35,000 **Vendor:** Worldwide Technology Ltd **RQS#** 71625

ging Partner Receives, stores and forwards faxes. Supports 10 voice mail boxes. **Price:** Rs 25,900 **Vendor:** Trans-Tel Communications **RQS#** 71626

Express Fax Server On a LAN, it facilitates in sending (and receiving) faxes from a desktop PC. **Price:** Rs 23,100..27,900 **Vendor:** Multitech Software Systems India **RQS#** 71627

xpress Traditional dial-in/dial-out datacom package with remote control for DOS and Win apps. **Price:** Rs 9,100 **Vendor:** Multitech Software Systems India **RQS#** 71628

com RN Gateway Provides simultaneous remote access to 32 LAN users via modems and dial-up links. **Price:** Rs 47,000..75,800 **Vendor:** Multitech Software Systems India **RQS#** 71629

al Telecom Manager Provides an integrated communication solution for small offices and professionals. **Price:** Rs 15,000 **Vendor:** BPL Telecom Ltd **RQS#** 71630

mm Plus 2.11 File transfer and terminal emulation software. Supports Xmodem, XmodemG and Kermit. **Price:** Rs 5,590..6,390 **Vendor:** Unison Computer Systems **RQS#** 71631

T Helps a customer to login to a bank network and access the required information via a modem. **Price:** Rs 6,000 **Vendor:** Transmatic Systems **RQS#** 71632

om Cross-platform communication software supporting multiple modems. Handles all modem port conflicts. **Price:** Rs 15,000 **Vendor:** Barve Software **RQS#** 71633

comm It supports modem and telex communication. **Price:** Rs 8,000 **Vendor:** Transmatic Systems **RQS#** 71634

mmunication Suite 5.0 Designed to work seamlessly with ZyXEL modems. **Price:** NA **Vendor:** Wanland **RQS#** 71635

M Menu-driven communication program. Includes a full scripting language. **Price:** Rs 8,000 **Vendor:** Barve Software **RQS#** 71636

Winterm 340 Terminal emulation software under Windows, an alternative to VT340 terminals. **Price:** Rs 30,000 **Vendor:** Computer Vision Laboratories **RQS#** 71637

pert-Voice Messaging System Voice messaging system which works over an EPABX-to-PC connection. It comes with an auto attendant, which answers incoming calls, and a voice mail feature. **Price:** Rs 45,000 **Vendor:** Quantum Power Systems, **RQS#** 71638

x Pro Ver.4.0 Software control to send, receive and manage your faxes. **Price:** Rs 7,995 **Vendor:** Sonata Software Ltd **RQS#** 71639

4.1 Networks Enables Windows 3.x and Win 95 network users to fax from their desktops. **Price:** Rs 15,000..20,000 **Vendor:** Sonata Software Ltd **RQS#** 71640

de Fax on Demand Helps in providing and accessing information through a fax machine. **Price:** Rs ,000 **Vendor:** Worldwide Technology Ltd **RQS#** 71641

e Tips Features include tele-banking, tele-order processing, fax on-demand and so on. **Price:** Rs ,000 **Vendor:** Worldwide Technologies **RQS#** 71642

egrated data, fax and voice software with Z-modem support, versatile fax capability and voice-mail support. **Price:** NA **Vendor:** Wanland **RQS#** 71643

FT An easy-to-use package which seamlessly integrates MSMail for PCs and networks with Internet mail. **Price:** Rs 36,000 **Vendor:** Merit Systems **RQS#** 71644

DEVELOPMENT TOOLS

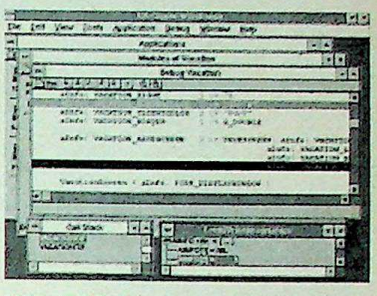
grammers Kit Set of utilities, source codes, libraries, objects, demos and tutorials. **Price:** Rs 499 **ndor:** Databank Systems **RQS#** 71645

Delphi Standalone Application development tool. **Price:** Rs 16,000 **Vendor:** Ultimedia System sociates **RQS#** 71646

mming Toolkit Set of source code, add-ons, libraries, objects, programs and utilities for C programming. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71647

embler Pack Set of programs, utilities, source codes and miscellaneous routines in C++ and Assembler. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71648

er 5.3 PC database application development system. **Price:** Rs 19,950 **Vendor:** Infosys chnologies Ltd **RQS#** 71649



With DOS development still active, packages like CA Clipper 5.3 let you develop and debug DOS apps from within Windows

SOFTWARE DEVELOPMENT TOOLS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

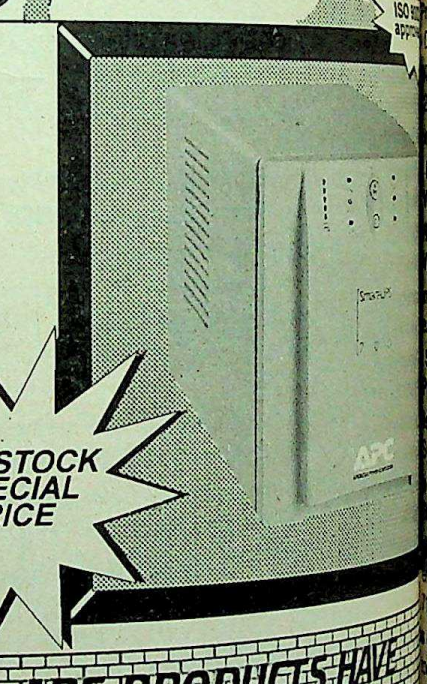
Digitized by Arya Samaj Foundation Chennai and eGangotri

STOCKED !
DATA ON SERVER LOST
DON'T LET IT REPEAT

HAVE PEACE OF MIND THROUGH

SMART - UPS

SMART SOLUTION FOR SERVERS



- A) INTELLIGENT INTERFACE WITH SERVERS
- B) COMPATIBLE WITH MOST NETWORK OPERATING SYSTEMS
- C) MULTIPLE SERVER SUPPORT
- D) INTELLIGENT BATTERY MANAGEMENT
- E) SUPPORT FOR SNMP
- F) PURE SINE WAVE OUTPUT
- G) SUPPORT GENERATOR POWER

EX-STOCK SPECIAL PRICE

yes NetWare Tested and Approved

Solaris COMPATIBLE

Lotus. BUSINESS PARTNER

Microsoft LAN MANAGER CO-DEVELOPER

yes It runs with UnixWare

SCO OK

ARTISOFT COMPATIBLE LANtastic

Microsoft SOLUTION PROVIDER

APC PRODUCTS HAVE WON MORE AWARDS FOR PERFORMANCE THAN ALL OTHER UPS VENDORS COMBINED !

APC™
AMERICAN POWER CONVERSION

BROUGHT TO YOU IN INDIA BY

VIDUR & CO. PVT. LTD.

707, Manjusha, 57, Nehru Place, New Delhi-1
Phone : 6223085, 6404215, 6404216, Fax : 6

AHMEDABAD : 6612745 ● BOMBAY : 3866546, 3824595, 3826962 ● CALCUTTA : 4663477, 4660065

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Objects 1.0 Gives full X-base object orientation, GUI support and client/server architecture. **Price:** Rs 35,800 **Vendor:** Infosys Technologies Ltd **RQS#** 71650

Team Developer Environment for developing scalable, Internet-enabled, client/server applications. **Price:** NA **Vendor:** Akshay Software Technologies Ltd **RQS#** 71651

dBASE Pack Set of utilities, source code, objects and programs for dBASE, FoxBASE and Clipper programmers. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71652

Analyst 3.1 Advanced PC and LAN based maintenance and reengineering tool for mainframe COBOL applications. **Price:** Rs 117,000..900,000 **Vendor:** ERA Software Systems **RQS#** 71653

mander OLAP 4.0 Client-server data analysis system. **Price:** Rs 8,000,000 **Vendor:** Mastek Ltd **RQS#** 71654

nizer 2000 Automated tool to customize Designer 2000 and Developer 2000. **Price:** Rs 100,000..120,000 **Vendor:** Softstar Computer Consultancy Pvt Ltd, **RQS#** 71655

Programmer's Toolkit- General Contains programing routines. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71656

Programming A pack of programs in C and C++, library routines, source codes, objects etc. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71657

Programming Series Tool kit for dBASE, FoxPro and Clipper programmers. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71658

Programming Series Set of programs libraries, functions, source codes for Basic programmers. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71659

Programming Series - Assembler Assembler tools including source codes, objects and runtime libraries. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71660

Programming Series - PASCAL Toolkit for Pascal programmers. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71661

Programming Series - Visual Basic Add-on interface for Visual Basic. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71662

dows Programming Tool Kit Contains routines, libraries, objects for Windows apps. **Price:** Rs 99 Vendor: Databank Systems **RQS#** 71663

Editor for programmers. **Price:** NA **Vendor:** Blue Chip Computers **RQS#** 71664

Business Components Used for developing Windows-based business apps. **Price:** Rs 35,000 **Vendor:** Objectland Software Technology **RQS#** 71665

ERX for PowerBuilder Tool for data modeling. Offers link with PowerBuilder. **Price:** Rs 139,800 **Vendor:** Hexaware Infosystems Ltd **RQS#** 71666

ment for COBOL 2.02 Development environment for MS COBOL 2.20. Includes compiler and executor parameters. **Price:** Rs 99 **Vendor:** Mudit Varma & Srivats **RQS#** 71667

Systems Pack Collection of expert systems and LISP programs including PDProlog and PC LISP. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71668

1.0 Integrated system for developing experts systems. **Price:** NA **Vendor:** QED Software Systems **RQS#** 71669

Enhanced Implementation of phigs standard. **Price:** Rs 100,000 upwards. **Vendor:** Zon Marketing **RQS#** 71670

SCM Tool Provides configuration management for any object-type across multiple workbench environments and OSs. **Price:** Rs 15,000..40,000 **Vendor:** Data System Services Pvt Ltd **RQS#** 71671

Development and integration environment. Includes a visual programming language and powerful tools. **Price:** Rs 40,000 **Vendor:** C-DAC **RQS#** 71672

Object-oriented application development environment. **Price:** NA **Vendor:** Leviathan Systems **RQS#** 71673

ce Safe Version controller software form Microsoft. **Price:** Rs 26,000 **Vendor:** Beta Information Technologies **RQS#** 71674

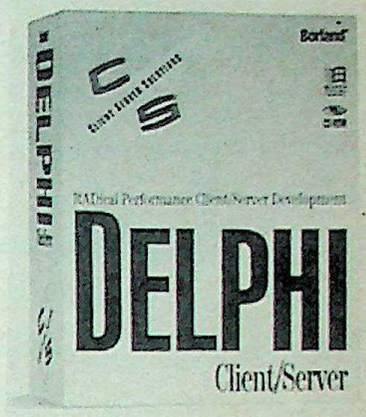
al Basic 4 Visual development tool for Windows. **Price:** Rs 5,740..61,250 **Vendor:** Sonata Software Ltd **RQS#** 71675

al C++ 1.52 Visual rapid application development tool. **Price:** $131 **Vendor:** Ultimedia System Associates **RQS#** 71676

Test 4 A powerful debugging tool for visual apps. **Price:** Rs 34,000 **Vendor:** Tata Unisys Ltd **RQS#** 71677

4 Programming language to create customized mapinfo solutions. **Price:** Rs 40,900 **Vendor:** Tata Elxsi **RQS#** 71678

OOLS Interactive Complete set of software tools for fast application development. **Price:** Rs 0,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 71679



Delphi combines graphical drag-and-drop object development with the power demanded by professional developers

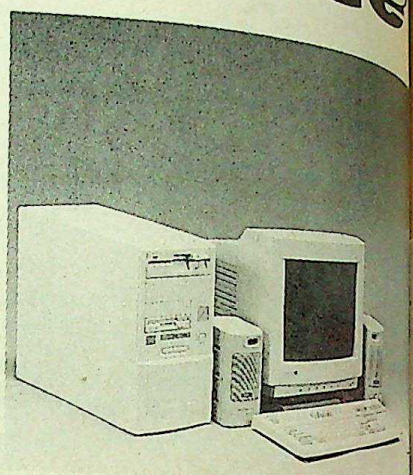
SOFTWARE DEVELOPMENT TOOLS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

High Performance Low Price

Champion PC



Champion P-133 Rs. 31,950/-

Champion P-120 Rs.28,500/-

Champion P-100 Rs.25,700/-

Champion P-75 Rs.23,250/-

Champion P-[illegible] Rs.20,2[illegible]

All above Configurations are with :

* Intel Pentium® Processor
* 256 KB Real Cache
* 8 MB Ram
* True PCI VGA with 1 MB Ram
* 1.44 MB Floppy Disk Drive
* Two High Speed Serial ports with UART-16550 High Speed Parallel Port
* Fully imported Cabinet with 200W SMPS, Keylock & Digital Display
* SVGA 14" Mono Monitor (1024x768)
* 101 Keys Cherry Keyboard

Optional ADD ON's

* 630 MB Hard Disk..... Rs.7[illegible]
* 1GB Hard Disk..... Rs.1[illegible]
* 14" SVGA Colour Monitor in Leiu of Mono..... Rs.[illegible]
* 1.2 MB Floppy drive..... Rs.[illegible]
* 4MB RAM..... Rs.[illegible]
* CD ROM Drive 4X..... Rs.[illegible]
* CD Rom Drive 6X ..... Rs.[illegible]

Terms & Conditions :

* Excise Duty @ 15% Extra
* LST @ 6% or CST @ 10%/4% against [illegible]
* One Year Warranty Covering all the parts [illegible]
* Prices are ex-works Delhi. Freight, Octroi [illegible]
* Prices are subject to change without notice

Pentium is a registered trademark of Intel Corporation.

Marketing Office :

CHAMPION COMPUTERS (P) LTD.
#306, Eros Apartments, 56, Nehru Place
New Delhi-110019
Ph.: 6426280,6214751,6404203 Fax : 011-6479669
E-mail : champ.chcomp.@axcess.net.in

GENUINE INTEL DEALER

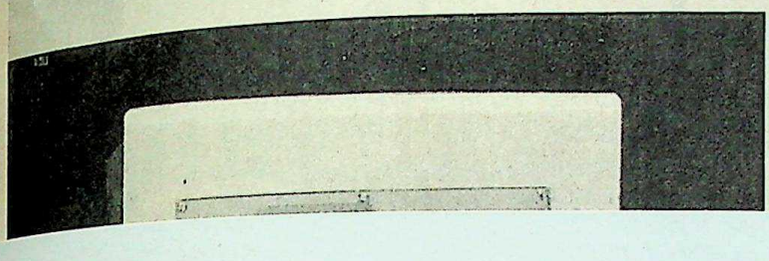
BECOME A CHAMPION DEALER TODAY

Authorised Dealers in India :

● AHEMDABAD-2812311, 2812479 ● AGRA-53310 ● BANGLORE-2239467, 2223092 ● BARODA-300469 ● BHAVNAGAR-[illegible]
● COIMBATORE-441867 ● COCHIN-352994 ● GHAZIABAD-753960, 724599 ● IMPHAL-224580, 222649 ● JAIPUR-[illegible]
● JABALPUR-311223 ● KOTA-421364 ● LUDHIANA-456830 ● MADURAI-534052, 535117 ● PATNA-227013 ● RAJKOT-[illegible]
429551, 429553 ● VARANASI-311425, 350920

Digitized by Arya Samaj Foundation Chennai and eGangotri

OMPETITIVE PRICE, QUALITY
NTEGRITY & RELIABILITY
RE YOUR BEST
ARRANTY



Computers & Micro-processor based systems need protection from electrical line disturbances like Voltage Spikes, Transients, Surges, Sags, Power Glitches, Severe Voltage Fluctuations & Total Power Failures. These Electrical Line disturbances are harmful to your PC, which if allowed by an inefficient & sub-standard UPS into your sophisticated systems, may damage your equipment or cause total loss of your valuable data. Obviously

Upgrade *yourself* each month!

Just mail back this card together with your payment & we will ensure that your PC QUEST reaches you each month. Right at your doorstep. With all its news, views, breakthroughs and analyses.

TERM	STAND PRICE	PAY ONLY	SAVE
3 YEARS	Rs. 900/-	**Rs. 630/-**	Rs. 270/-
2 YEARS	Rs. 600/-	**Rs. 450/-**	Rs. 150/-
1 YEAR	Rs. 300/-	**Rs. 240/-**	Rs. 60/-

SUPER SAVINGS OFFER !!

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

NAME (Mr./ Ms.): _____

DESIGNATION: _____

COMPANY: _____

ADDRESS: _____

CITY: _____ STATE: _____ PIN: _____ TEL: _____

Allow 4-6 weeks for first delivery. Cheque/DD to be drawn in favour of **M/s. CYBER MEDIA (INDIA) LTD.** and payable at **NEW DELHI.**

Add Rs. 15/- for outstation cheques.

Albit

CVT - 50 VA - 5 KVA

INVERTER - 250 VA - 5 KVA

lbit Electronics Pvt. Ltd.

, BASEMENT, SHAKTI NAGAR EXTN. DELHI-110052

7428038, 7428039, 7218038 TELEFAX : 7419039

UPS CVT INVERTER

ABHINAV ADVERVERTISING. PH.: 2919099

Digitized by Arya Samaj Foundation Chennai and eGangotri

High Performance Low Price

THE PERSONAL COMPUTING MAGAZINE

PC QUEST

Mail back to:

CYBER MEDIA (INDIA) LTD.,
D-74, PANCHSHEEL ENCLAVE,
NEW DELHI - 110017.

* One Year Warranty Covering all the parts
* Prices are ex-works Delhi. Freight, Octroi
* Prices are subject to change without notice

Pentium is a registered trademark of Intel Corporation.

Marketing Office :

CHAMPION COMPUTERS (P) LTD.
#306, Eros Apartments, 56, Nehru Place
New Delhi-110019
Ph.: 6426280,6214751,6404203 Fax : 011-6479669
E-mail : champ.chcomp.@axcess.net.in

GENUINE INTEL DEALER

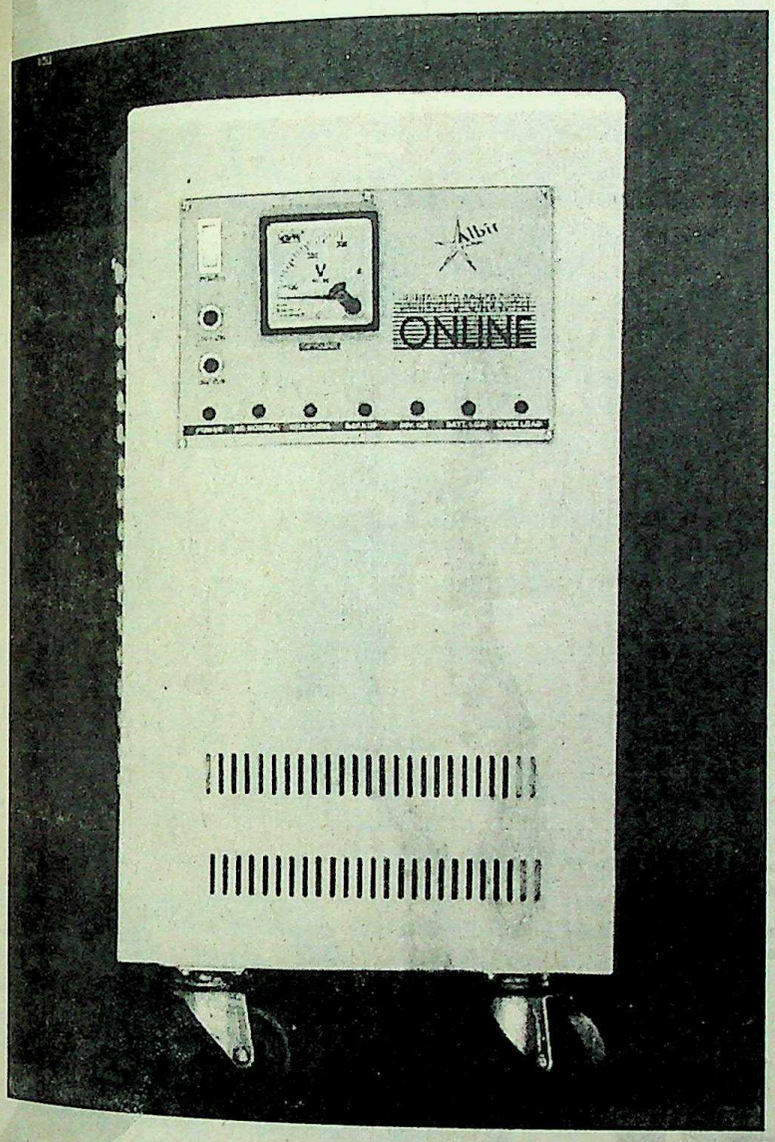
BECOME A CHAMPION DEALER TODAY

Authorised Dealers in India :

● AHEMDABAD-2812311, 2812479 ● AGRA-53310 ● BANGLORE-2239467, 2223092 ● BARODA-300469 ● BHAVNAGAR
● COIMBATORE-441867 ● COCHIN-352994 ● GHAZIABAD-753960, 724599 ● IMPHAL-224580, 222649 ● JAIPUR
● JABALPUR-311223 ● KOTA-421364 ● LUDHIANA-456830 ● MADURAI-534052, 535117 ● PATNA-227013 ● RAJKOT
429551, 429553 ● VARANASI-311425, 350920

Digitized by Arya Samaj Foundation Chennai and eGangotri

OMPETITIVE PRICE, QUALITY
NTEGRITY & RELIABILITY
RE YOUR BEST
ARRANTY



Computers & Micro-processor based systems need protection from electrical line disturbances like Voltage Spikes, Transients, Surges, Sags, Power Glitches, Severe Voltage Fluctuations & Total Power Failures. These Electrical Line disturbances are harmful to your PC, which if allowed by an inefficient & sub-standard UPS into your sophisticated systems, may damage your equipment or cause total loss of your valuable data. Obviously you would ask for the best solution for these problems.

Albit Electronics Pvt. Ltd. is a manufacturer of quality On-Line & Off-Line UPS, CVT & Inverters. We are a fast growing company & within a short period of our establishment we have acquired a good market reputation. Why? All Albit products are tried and tested to ensure faultless performance. Thanks to our all-out R&D efforts and stringent QC system that keep our products way ahead of the others. Albit products are available in a much wider range to be chosen from.

ON-LINE UPS	**- 500 VA - 10 KVA**
OFF-LINE UPS	**- 250 VA - 1250 VA**
CVT	**- 50 VA - 5 KVA**
INVERTER	**- 250 VA - 5 KVA**

Albit

lbit Electronics Pvt. Ltd.

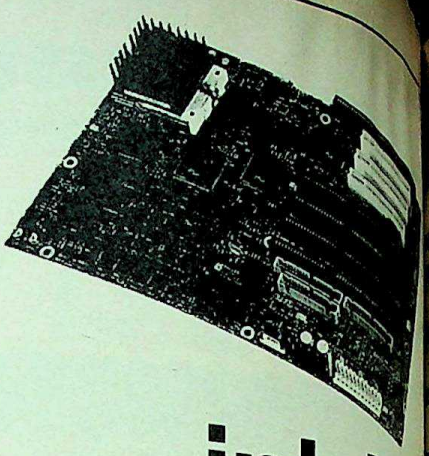
0, BASEMENT, SHAKTI NAGAR EXTN. DELHI-110052
7428038, 7428039, 7218038 TELEFAX : 7419039

UPS CVT INVERTER

ABHINAV ADVERTISING. PH.: 2919099

Digitized by Arya Samaj Foundation Chennai and eGangotri

PERFORMANCE !



When you buy the original Motherboard you get a lot more:

- ☑ Maximum compatibility
- ☑ Undisturbed Performance
- ☑ Guaranteed Quality
- ☑ Much Longer Life

PACE !!

intel® pentium™ PROCESSOR

And when you buy the spectacular Pentium™ Processor in a box, you get:

- ☑ Fantastic Fast Speed
- ☑ Unprecedented Efficiency
- ☑ Intel's Guarantee
- ☑ Sheer Joy of Pace

PEACE !!!

Finally when you buy these through Priya International Limited, the longest standing Authorised Distributor for Intel Corporation Limited, you can expect:

- ☑ Stamp of Reliability
- ☑ Guarantee of Prompt Service
- ☑ Advantage of Technical Support
- ☑ Complete Peace of Mind

Priya GROUP

Dealer Enquiries Solicited

Now stocks available from our local outlets

Serving Perfection And Purpose With Pleasure

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 285 4037

Branch Offices: **Bangalore:** Tel.: 91-80-5550623, 5550624 Telex: 0845-8211 PRIA IN Fax: 91-80-5550422 • **Calcutta:** Tel.: 91-33-2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3716... • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-81...

**The Logos and Trade Marks shown above are of their respective owners.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WinHelp Plus Ver.3.21 Helps in building Windows Help files without MS Word. **Price:** Rs 399 **Vendor:** Unique Business Solutions **RQS#** 71680

Visual Fortran Library Mark 16 Math library. **Price:** Rs 170,000 **Vendor:** Zon Marketing **RQS#** 71681

Visual Graphics Library A collection of numerical or statistical routines. **Price:** Rs 22,000 upwards. **Vendor:** Zon Marketing **RQS#** 71682

Object Team Application Factory Automates key development tasks for C++ developers. **Price:** NA **Vendor:** Wipro Ltd **RQS#** 71683

Object Team Enterprise An object oriented enterprise modelling solution for Java, PowerBuilder, Visual Basic and COBRA IDC developers. **Price:** NA **Vendor:** Wipro Ltd **RQS#** 71684

Technical Programmers' Kit Collection of source codes, objects, libraries, demos, samples and tutorials. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71685

Platinum SQL Coder Windows-based development environment for creating, managing and organizing server objects. **Price:** $795..5,495 **Vendor:** Ashok Leyland Information Technology Ltd. **RQS#** 71686

PowerBuilder 4.0 Desktop and Enterprise Development environment for building Windows-based client/server applications. **Price:** Rs 131,800..11,800 **Vendor:** Hexaware Infosystems Ltd **RQS#** 71687

PW 2.2 4GL programming environment for creating powerful, user-friendly software. **Price:** Rs 45,000..12,000,000. **Vendor:** Cadus International **RQS#** 71688

Programmer's Editor 2.1 Text editor featuring language-specific mode-settings, multiple indents, macro execution etc. **Price:** Rs 180 **Vendor:** Mathew Thomas **RQS#** 71689

Rational Rose/ADA Helps in analyzing, designing and implementing interactive systems. **Price:** $3,000 **Vendor:** Object Oriented Interactive Software **RQS#** 71690

Rational Rose/PowerBuilder Helps in developing objects for business modeling. **Price:** $3,000 **Vendor:** Object Oriented Interactive Software **RQS#** 71691

Rational Rose/SmallTalk Offers support for SmallTalk application developers. **Price:** $3,000 **Vendor:** Object Oriented Interactive Software **RQS#** 71692

SA TEAM Test A powerful debugging program for visual applicatons. **Price:** Rs 80,000 **Vendor:** Inventa Software **RQS#** 71693

SBGS-3D Three dimensional graphical kernel system for DOS Library. **Price:** Rs 19,995 **Vendor:** SiLicon Interfaces **RQS#** 71694

Silverrun Multi-platform CASE tool for application development. Has interfaces to RDBMS. **Price:** Rs 140,000 **Vendor:** Silverline Industries **RQS#** 71695

Sm Solution for commercial applications for medium to large organizations. **Price:** Rs 49,000..79,000 **Vendor:** Schancliff Computer Solutions **RQS#** 71696

Synthesis for Windows Ver.3.51 System analysis and design workbench. **Price:** Rs 30,000 **Vendor:** Knoxware **RQS#** 71697

Team Work A set of tools for automating software developement cycle. **Price:** NA **Vendor:** Wipro Ltd **RQS#** 71698

TestView Automated testing tool for Windows-based applications. **Price:** Rs 110,000 **Vendor:** VJ Infosystems ltd **RQS#** 71699

Timing Designer 3.0 Helps in analyzing timing up front in the design process incorporating constructs like signals, clocks, delays etc. **Price:** Rs 99,000 **Vendor:** Cranes Software International **RQS#** 71700

TSAPI Helps in developing voice response applications. **Price:** Rs 200,000 **Vendor:** Worldwide Technology Ltd **RQS#** 71701

Turbo Analyst 3.1 CASE Tools from TELCO. **Price:** NA **Vendor:** Winsoft Consutlants **RQS#** 71702

Turbo Compress Pro 3.0 Analysis and optimization tool. **Price:** Rs 3,950 **Vendor:** Stride Systems **RQS#** 71703

Vaman Coregraph Library of C, C++ and Fortran routines for generation of 2D and 3D graphics. **Price:** Rs 50,000 (DOS); Rs 100,000 (UNIX) **Vendor:** Computer Vision Laboratories **RQS#** 71704

Vaman GKS Library of C, C++, and Fortran routines for generation of 2D graphics. **Price:** Rs 25,000 (DOS); Rs 50,000 (UNIX) **Vendor:** Computer Vision Laboratories **RQS#** 71705

Vaman IPKS Toolkit containing a library of functions for image processing apps. **Price:** Rs 95,000 (DOS); Rs 200,000 (UNIX) **Vendor:** Computer Vision Laboratories **RQS#** 71706

Visual C++ 4.0 Visual development tool for Windows. **Price:** Rs 30,560..42,730 **Vendor:** Sonata Software Ltd **RQS#** 71707

Visual Tester Point-and-click tool. Supports all standard C++ compilers. **Price:** Rs 36,960 **Vendor:** Crescent Software Solutions **RQS#** 71708

With DOS database apps still popular in India, old favorite dBASE has given way to FoxPro's speed and features

SOFTWARE DEVELOPMENT TOOLS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Civil Engineering softwares from ENSOFT

Build-Master 4.5

A Complete Package for Building Design, Drawing & Estimation

- Easy Plan Input with automatic frame generation.
- Analysis with Loading, BMD, SFD.
- RCC Design with Limit/Working Methods.
- Automatic Estimation of Quantities from Floor Plans.
- Automatic generation of Working Drawings.
- Structural Design of Trusses, frames, Columns, Girders.

Draft-Aid 1.0

Utility Package for Preparing Structural Steel Drawings.

- Truss Drawing with gusset plates.
- Built-Up Columns with sections.
- Bill of Materials for theDrawings.
- Key Plans, Tie Beam, Purlin Details.
- 3-D models of vessel platforms, sheds etc.

ENSOFT CONSULTANTS
201/2F,Damodar Park,
L.B.S.Marg, Ghatkopar (W),
MUMBAI- 400 086.
Tel : 511 6505, 514 8084.

HEAD PROBLEMS ? NO PROBLEMS !

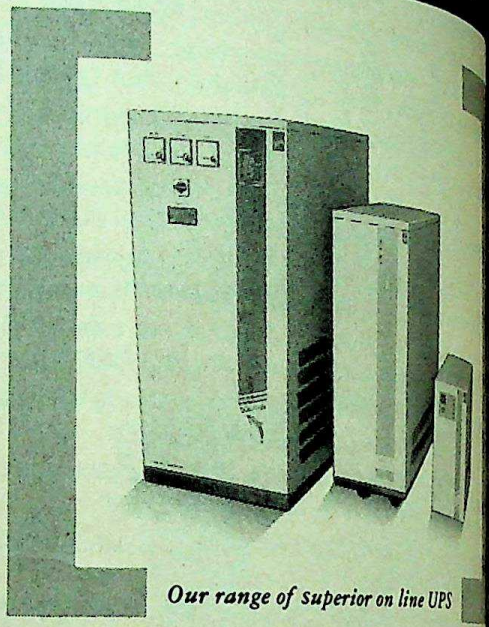
CONTACT : **SUPERTRON** - The only reliable source, for guaranteed repairs of all Print Heads, Printers, Floppy Disk Drives, Mother Boards, Monitors, SMPS, Motors, Key Boards, UPS, Laser Printers etc.

Supertron Computer Systems (P) Ltd.
366, Basement, Sant Nagar,
East of Kailsah, New Delhi-110 065
Ph : 6446234

Branch Office :

B-8, Zenith Business Centre,
Motilal Avenue, Jaipur - 302001
Tel. : 361846 / 362590

After being in Power for 40 years, we understand the current situation best.



Our range of superior on line UPS

Being the industry leaders for over 40 years, our solutions are powerful when it comes to power disturbances.
Don't let blackouts, brownouts, surges and spikes eliminate precious data. Or worse still, destroy your expensive hardware.
The advanced range of UPS Systems backed by the trusted Kirloskar Electric name and the technical knowhow of Toshiba Corporation, Japan, ensures 100% protection from all power aberrations.
What is more, the extensive and intensive care of our customer sales and service network will ensure that you are never in the

KIRLOSKAR ELECTRIC
An ISO 9001 Company

Manufactured at: Unit-IV, Belavadi Industrial Area, Mysore. Tel: 402540-43, Fax: (0821)402266, 402008

Branches: Delhi: Ph. 6445469, Kanpur: 217020, Meerut: 560053, Lucknow: 360403, Calcutta: 2428201, Guwahati: 548736, Bhubaneswar: 406338, Jamshedpur: 426116, Patna: 261393, Bombay: 4925638, Nagpur: 336182, Aurangabad: 33524, Ahmedabad: 448960, Surat: 687920, Bhopal: 324236, Indore: 430750, Jabalpur: 323351, Madras: 8521424, Coimbatore: 372637, Hyderabad: 311281, Vizag: 547086, Bangalore: 2234022, Belgaum: *Dealers / Re-sellers:* Delhi: Indian Digital Equipments Ph: 457557, Rajesh Electronics Ph: 33938, Jaipur: Ph: 428572, Calcutta: Automation India Ph: 721392, Bhubaneswar: Electronics Ph: 414522, Bombay: Control Technics Ph: 8832859, Garnet Technology Inc. Ph: 4143415, Nagpur: Debashu Sales Ph: Beta Consultancy Ph: 552318, Indore: Das Agencies Ph: 532655, Ph: 460285, Jabalpur: Computer Land Ph: 316138, Madras: Ph: 5229420, Kewal Enterprises Ph: 8282946, Trichi: Cochin: Koluthra Systems Ph: 362477, Coimbatore: Marksman Marketing Co., Hyderabad: Cyber Systems Ph: Ph: 233483, Jawab Electronics Ph: 315673, Bangalore: Ltd. Ph: 332082, 2583, 7422, Computer Care Ph: 3329746, Belgaum: J.V. Electronics Ph: 428350, Goa: Kamath Engineers

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Acrobat 2.1 Lets you create electronic documents from a wide range of authoring tools. to share across different platforms. **Price:** Rs 8,950 **Vendor:** Wipro Ltd **RQS#** 71709

Illustrator 4.1 A page-designing tool. **Price:** Rs 21,950 **Vendor:** Wipro Ltd **RQS#** 71710

Pagemaker 6.0 A desktop publishing software for color publishing. **Price:** Rs 31,950 **Vendor:** Wipro Ltd **RQS#** 71711

Photoshop 3.0 A photo design and production tool. **Price:** Rs 31,950 **Vendor:** Wipro Ltd **RQS#** 71712

95 Windows-based Indian script software with image collection. **Price:** Rs 10,000 **Vendor:** Silent Graphics **RQS#** 71713

Artshow Collection (2, 3, 4, & 5 Bundle) Contains full-color coffee-table books and companion CD-ROMs. **Price:** Rs 6,500 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71714

Gallery Includes thousands of images. **Price:** Rs 3,500 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71715

Photo-Paint 5 Plus Includes color management system, special effects etc. **Price:** Rs 6,000 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71716

Photo-Paint 6 Comes with advanced color management tools. **Price:** Rs 11,000 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71717

Print House A collection of clipart, fonts, photos and phrases. **Price:** Rs 2,500 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71718

Stock Photo Library 1st-2nd Features 200 CD-ROMs containing 20,000 royalty free images. **Price:** Rs 52,000 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71719

Ventura 5.0 Supports both structured and free-format documents. **Price:** Rs 18,500..22,000 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71720

Xara Offers redraw capabilites with special effects. **Price:** NA **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71721

DRAW 5.0 A powerful desktop publishing application. **Price:** Rs 23,500..28,000 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71722

Draw 6.0 A powerful illustration and graphics 3D rendering tool. **Price:** Rs 23,500 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71723

500 True Type Fonts Collections A collection of fonts in formats like TTF, PFB, ATM etc. **Price:** Rs 1,299 **Vendor:** Databank Systems **RQS#** 71724

Classic Cliparts A collection of cliparts. **Price:** Rs 1,299 **Vendor:** Databank Systems **RQS#** 71725

Classic Cliparts Vol-I A collection of cliparts and pictures. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71726

Classic Cliparts Vol-II A collection of cliparts for graphic designers. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71727

Cliparts-Nature's Beauty A collection of nature cliparts. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71728

DTP Manager Contains DTP programs. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71729

Dr Graphics A collection of programs for graphics, drawing and animation. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71730

Fontomania Contains a number of fonts including true-type, Adobe, ATM etc. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71731

Graphic Workshop A set of graphics programs and utilities. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71732

Graphics Bonanza A collection of graphics, drawings and paintings. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71733

Instant Artiste A collection of drawings and paintings for graphics designers. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71734

Neo DTP Add-ons Collection of DTP programs. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71735

True Type Fonts Bonanza A collection of True-type fonts for Windows applications. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71736

Pack A collection of useful DTP utilities. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71737

igner 4.1 T. E. Graphics package with 3D drawing tools and color separation utility. **Price:** Rs 19,500 **Vendor:** Softek **RQS#** 71738

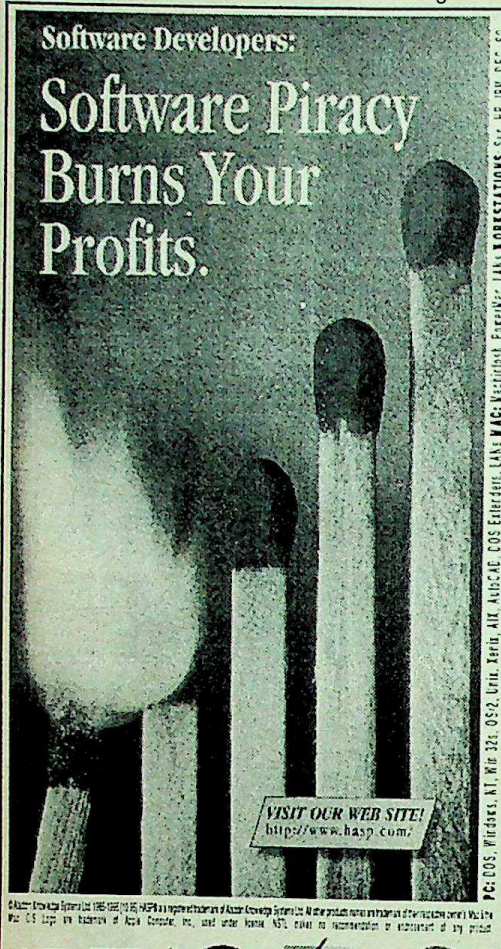
e Text A powerful publishing software. **Price:** Rs 40,000 - 7,000,000 **Vendor:** Informatics (India) **RQS#** 71739

CorelDRAW rules the PC graphics software market, with its CorelDRAW and other mega-packs of graphics modules, clipart and fonts

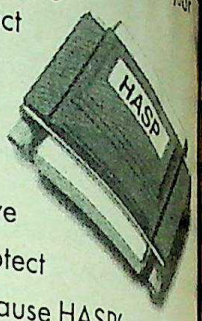
SOFTWARE
DTP/GRAPHICS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Each year, the illegal use of software consumes nearly 50% of your potential revenues. With the flames of piracy eating away at your profits, can you afford not to protect your software?



HASP® is widely acclaimed as the world's most advanced software protection solution. Since 1984 thousands of leading developers have used nearly **two million** HASP keys to protect billions of dollars worth of software. Why? Because HASP's **ASIC (Application Specific Integrated Circuit)** security, reliability, ease-of-use led them to a simple conclusion: HASP is the most effective software protection system available.

Today, more developers are choosing HASP than any other software protection methods. To learn why, and to see how easily you can increase your revenues, call now to order your **FREE** HASP Developer's Kit.

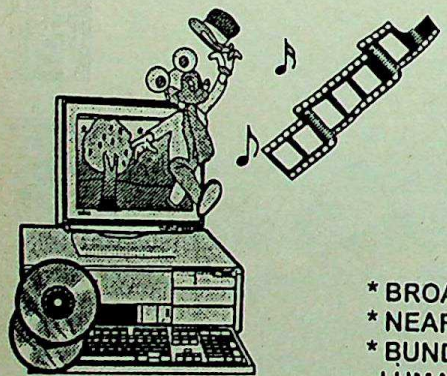
NSTL Study rates HASP as # 1 in the wor

Distributed by : **SOLUTION INDIA**

A-91, Anand Vihar, Delhi-110
Tel.: 011-214
Fax : 011-214
Email: india.solu@axcess.

1984-1995 YEARS

ALADDIN®
The Professional's Choice



AVer Media

NON LINEAR ONLINE AND OFFLINE DIGITAL VIDEO EDITING SOLUTIONS.

* BROADCAST QUALITY, WITH COMPONENT, S-VHS, AND COMPOSITE INPUT/OUTPUTS,
* NEAR BROADCAST QUALITY WITH S-VHS AND COMPOSITE IN/OUT, LOW BUDGET,
* BUNDLED SOFTWARES, TO GIVE SPECIAL EFFECTS LIKE CUT, MIX, ROTOSCOPING, LUMA KEYING, CHROMA KEYING, ALPHA CHANNELS, WIPES, FLYING, WARPING, ETC.,
* UNLIMTED CUSTOMISED EFFECTS CAN BE CREATED,
* EDLS CAN BE CREATED, FOR OFFLINE USE,
* BUILT IN CHARACTER GENERATOR, WITH UNLIMITED FONTS AND EFFECTS,
* ADJUSTABLE DATA RATE AND QUALITY, WITH VIDEO AND AUDIO.
* PERSONAL ANIMATION RECORDERS FOR TRANSFERING OF 2D/3D GRAPHICS ANIMATIONS DIRECTLY ON VCR, * AND MANY MORE FEATURES.

TRUEVISION

ADDA

miro

VIDEONICS

NOVA

ALSO AVIALABLE:
VIDEO MIXERS, MOTION-JPEG., MPEG COMPRESSORS, CD-RECORDERS, OVERLAY/GENLOCK CARDS, FRAME GRABBERS, TBCS., CHARACTER GENERATORS, VIDEO PROCESSORS, VIDEO EQUILISERS, VGA TO PAL ENCODERS, WINDOWS ACCELERATORS, VIDEO-CD, CD-I, MPG-CD PLAYERS, ETC.

ASHOK ELECTRONICS
11, TINWALA BLDG., TRIBHUVAN ROAD, BOMBAY 400 004.
TEL: 382 7424, 388 6287, FAX:91-22-649 5510/387 8673.

ONE STOP SHOP FOR BROADCAST, STUDIO AND PROFESSIONAL MULTIMEDIA PRODUCTS.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Designer EPSON Freeware package for designing fonts. **Price:** NA **Vendor:** Ultimedia System Associates **RQS#** 71740

3D 2.7 Surface modeller with 2D/3D form manipulation and sculpting capabilities. **Price:** Rs 63,500 **Vendor:** Blue Information Technology Ltd **RQS#** 71741

PageMaker 5.0 Mulli-platform software for publishing large documents. **Price:** Rs 34,950..99,950 **Vendor:** Wipro Ltd **RQS#** 71742

Graphics Clipart Pack A collection of clipart in GIF, PCC and PCX. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71743

Gujarati Fonts Package comprising truetype and ATM fonts for Gujarati and Hindi with QWERTY keyboard layout. **Price:** Rs 1,500 **Vendor:** Hitarth Consulants **RQS#** 71744

Multiscript publishing package with Indian language interface. **Price:** Rs 10,000 **Vendor:** C-DAC **RQS#** 71745

Fonts for Windows Complete library of 100 scalable fonts under Windows. **Price:** Rs 3,500 **Vendor:** Alpine Automation **RQS#** 71746

Painta Lets creative professionals use digital watercolors, oils, gouache or chalks. **Price:** Rs 110,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 71747

Publisher 2 Microsoft's publishing solution. **Price:** $92 **Vendor:** Ultimedia System Associates **RQS#** 71748

Promedia Freehand A powerful illustration and graphics designing software. **Price:** Rs 24,950 **Vendor:** Wipro Ltd **RQS#** 71749

Paintbrush Freeware graphic utility. **Price:** NA **Vendor:** Ultimedia System Associates **RQS#** 71750

Picture Publisher 5.0 Advanced graphics package with color separation utilities. **Price:** Rs 27,000 **Vendor:** Softek **RQS#** 71751

Shusshak 3.2 for DOS A comprehensive DTP software. **Price:** Rs 12,500..40,000 **Vendor:** Sonata Software Ltd **RQS#** 71752

Shusshak 5.0 for Windows Offers user-configurable graphic and phonetic keyboards. **Price:** Rs 12,500..40,000 **Vendor:** Sonata Software Ltd **RQS#** 71753

Shusshak Mac 1.0 DTP software for System 7.1. **Price:** Rs 12,500 **Vendor:** Sonata Software Ltd **RQS#** 71754

PressWorks 2.0 Package for document production. **Price:** Rs 3,500 **Vendor:** Zon Marketing **RQS#** 71755

PressWorks PowerPack Document production software. Bundled with a mini-spreadsheet. **Price:** Rs 4,900 **Vendor:** Zon Marketing **RQS#** 71756

Publisher Design Pack 2.00 Microsoft's design publisher pack. **Price:** $28 **Vendor:** Ultimedia System Associates **RQS#** 71757

RIP Software - Harlequin Level-II Raster image processor that converts images to bitmaps. **Price:** Rs 8,500 **Vendor:** International Graphics Ltd **RQS#** 71758

Rangoli 1.1 Adobe-Type 1 fonts for Indian languages. **Price:** Rs 7,777 **Vendor:** Fifth Generation Software **RQS#** 71759

Shree Lipi Package of Indian language fonts for Windows. **Price:** Rs 8,000..18,000 **Vendor:** Modular Systems **RQS#** 71760

Shusshak Font Offers about 1,000 symbols and 29 fonts in for three Indian languages. **Price:** Rs 6,000 **Vendor:** Somay Systems **RQS#** 71761

Silicon Surfer 3D software solution for all Silicon Graphics platforms. **Price:** $5000..16,000 **Vendor:** Blue Information Technology Ltd **RQS#** 71762

Silicon Office Multilingual DTP package with interactive text editor. **Price:** Rs 18,000 **Vendor:** Computer Vision Laboratories **RQS#** 71763

Silicon Publisher Professional Multilingual desktop package. **Price:** Rs 30,000..75,000 **Vendor:** Computer Vision Laboratories **RQS#** 71764

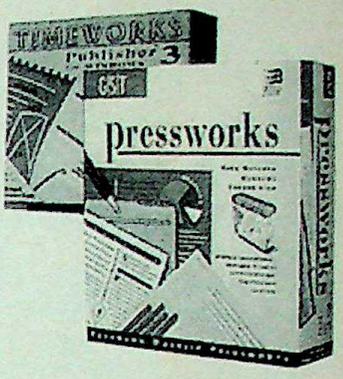
Windows Graphic Magic Pack A collection of graphic programs and utilities. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71765

EDUTAINMENT

Computer Dictionary A dictionary of common computer terms. **Price:** Rs 100 **Vendor:** Kanugovi Computer Centre **RQS#** 71766

ABC Blaster Contains alphabets and words associated with each letter. For kids. **Price:** Rs 950 **Vendor:** Knowledge Ware India **RQS#** 71767

Astronomy and Space Pack Tutorial on astronomy, space and the universe. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71768



Though PageMaker and Quark dominate professional publishing, entry-level packages such as Pressworks now pack power and features into small pricetags

SOFTWARE
EDUTAINMENT

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

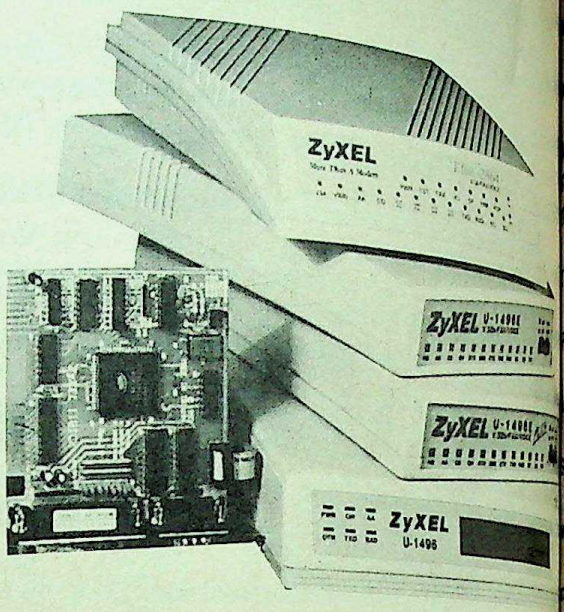
WHICH ZyXEL IS YOURS

Almost every true Data Communication Professional trusts & swears by ZyXEL; The Voice/Data/Fax Modems that connect and work where every other Modem has failed.

ZyXEL! the Datacom Professionals choice is now available in India in a wide range of models from 14.4 kbps to 28.8 kbps.

Pick up the Model/s, best suited to you and get a very pleasent surprise - that ZyXEL data communication can be so fast, efficient reliable and cost effective.

This is ZyXEL reliability.



Another pleasent Surprise! We offer all connectivity in a matter of Days.

Just Fax us your All-India requirement, incl addresses of locations to be connected thr out the country.

Team ZyXEL is ready, waiting and wzzz to say

This is ZyXEL Service.

ZyXEL

VOICE/DATA/FAX MODEMS

WITH CELLULAR SUPPORT

EDP AIDS PVT LTD

B-32, Lajpat Nagar-2
New Delhi-110 024
Phones (11) : 683 3192, 684 6299, 684 62
Fax: (11) : 684 6299
E-Mail (Sprint Mail) : edp.aids/edpa
X-400 : (C:IN,A:VSNL,P:SPRINTRPG,
O: EDPA, FN:EDP,SN:AIDS)
Internet : edp.aids@edpa.sprintrpg.sprint.com

* Associates: Xon Communications Pvt. Ltd.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Internet Access & Traning Programmes A comprehensive pacakge for Internet and WWW users. **Price:** NA **Vendor:** Quantum Link Communications **RQS#** 71769

Learning to Read-MUPPETS Helps developing reading skills of 3-7 year old children. **Price:** Rs 995 **Vendor:** Knowledge Ware India **RQS#** 71770

Bhajagovindam Multimedia 1.0 Lists Bhajagovindam verses in Sanskrit with translation and transliteration in English. **Price:** Rs 200 **Vendor:** Sri Raghavendra Softwares **RQS#** 71771

Biology Tutor Educational package on human anatomy. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71772

DPS Helps in designing question papers. **Price:** Rs 3,500 **Vendor:** Gyan Deep **RQS#** 71773

Pack Pack of 32 tutorial titles on hardware and software. **Price:** Rs 700 **Vendor:** Softsolutions **RQS#** 71774

Express 1.0 for Windows CBT for designing multimedia training courses. **Price:** Rs 120,000 **Vendor:** Tata Elxsi **RQS#** 71775

For PowerBuilder Interactive PB programming tutorial. **Price:** Rs 4,800 **Vendor:** Alpine Automation **RQS#** 71776

ROM Tutorials Training programs on Windows and Windows-based products. **Price:** Rs 3,000..23,000 **Vendor:** Alpine Automation **RQS#** 71777

SIKA 1 Tutorial on Carnatic music system through text, visuals and audio. **Price:** Rs 960 **Vendor:** Carnatic Music **RQS#** 71778

SIKYA 1 Carnatic music lessons to Geetham level. Gamakam and sound card optional. **Price:** Rs 960 **Vendor:** Carnatic Music **RQS#** 71779

Work Self-paced computer awareness course. **Price:** Rs 4,000 **Vendor:** Alpine Automation **RQS#** 71780

Chemistry Tutor Interactive, menu-driven tutorials in chemistry. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71781

Quiz-Cat 1.0 Assists students in preparing for competitive examinations. **Price:** Rs 2,500 **Vendor:** Binary Data Systems **RQS#** 71782

Corel CD Collection Personal Creativity Music A comprehensive package on music. Comes with six CD-ROMs. **Price:** Rs 2,000 **Vendor:** Datalinker **RQS#** 71783

Corel CD Collections Personal Improvement Series A comprehensive personal improvement package. Comes with eight CD ROMs. **Price:** Rs 7,500 **Vendor:** Datalinker **RQS#** 71784

Corel Shell CD-ROM Library Laser disk library system with 16 edutainment CD-ROM titles. **Price:** Rs 5,000 **Vendor:** Databank Systems **RQS#** 71785

Cyber Atlas MAPVIEW-based package for geography teachers. **Price:** Rs 2,490..9,900 **Vendor:** Infotech Enterprises Ltd **RQS#** 71786

Cyber Crimes An interactive electronic book with a retrieval program. **Price:** Rs 250 **Vendor:** Sysman Computers Pvt Ltd **RQS#** 71787

Cyber Startup Pack Set of 25 tutorials for computer students. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71788

Algebra/Geometry Tutor A tutor program for Algebra and Geometry. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71789

Batch File Programming Comprehensive reference guide to batch file programming. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71790

Best Recipe Collection A collection of recipes from around the world. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71791

Biology Tutor Biology tutor program for all grades and levels. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71792

Chemistry Tutor Tutor for chemistry. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71793

Computer's Collection Guide for computer beginners. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71794

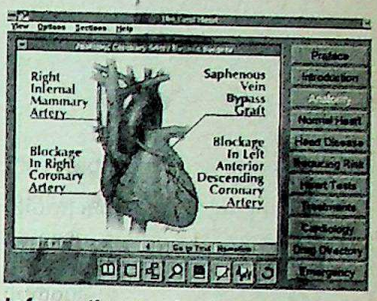
Creativity Pack Helps to sharpen your skill in creative thinking. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71795

Doctor's Technical Reference Guide A reference guide for doctors and medical practitioners. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71796

Electronics Tutor Software for learning electronics. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71797

Examinator A tool kit to aid in studying and preparing for exams. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71798

Fitness Assistant Software guide to health and fitness. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71799



Information-packed multimedia software are a major reason for the rapid spread of home computers

SOFTWARE EDUTAINMENT

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Attention decision makers!

Still want to be steps ahead. Welcome to the Victory Multimedia techno
zone. We are offering incredibly Fast CD-ROM Drives, 3D-STE
quality SOUND CARDS, high tech VIDEO CARDS, relia
CD-ROM RECORDERS, high - speed Six Disc CD-R
CHANGERS, high quality 3-in-1 SCANNER / FAX / COP
... for less than you ever thought possible. So with y
dreams and our reliable, high - tech value pr
Multimedia products success'll be yours.

AST COMPUTER
Authorised Dealer

For Further Details Contact

MEDIA TECHNOLOGIES INDIA LIMITED

H.O : 204, Bhandari House, 91 Nehru Place, New Delhi -110 019. Tel 646 8695, 6420117
Telefax : 642 7241, E-mail - D E L A AC4 7 @ G I A S D L 0 1.VS NL.NET.IN
B.O. : 24-A, Dadyseth House, 44, Cawasji Patel Street, Fort, Bombay - 400 001. Tel. 2853830

DEALERS:
Allahabad : LANSYS Computers (P) Ltd. Tel. 644330, 644473,642152, 640489. Bangalore : Premium Logic Sys
Tel. 3339602. Calcutta : Unique Sales Agency, Tel. 275356. Chandigarh : Samson Software Technolo
Tel. 690505. Gorakhpur : Sam Computers Pvt. Ltd. Tel. 33558. Jallandhar : The Computer Concept, Tel. 23
236989. Kanpur : Multi Business Machines Tel. 290986, 293738, 355731. Lucknow : Syber Systems & So
Pvt. Ltd., 386325, 76107. Noida : COMPUCOMM Services Tel. 522357, 558402. Patna : Graphic
Tel. 651740.Udaipur : Vardhman Computers Tel. 414543. Varanasi : Jwala Distributors Tel. 356338, 356

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

s Fr's Aniamtion For Kids Collection of animation, graphics and special effects for kids. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71800

Food & Nutrition A collection of food, diet and nutrition programs. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71801

Fun 'n' Learn For Kids Best fun and learning set of program for kids of all ages.. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71802

General Education Multipurpose educational program for students of all ages. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71803

History/Geography Tutor Program to learn History and Geography. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71804

Hobbies Collection A collection for hobbies of any kind. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71805

Home Knitting Pack Ideal for knitting enthusiasts. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71806

Home Utility Collection A set of programs for home utility. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71807

Investment Guider Helps in making analytical decisions for investment. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71808

Junior Maths Set of useful programs on mathematics for kids up to 10 years. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71809

Jurassic Park Interactive program to help you build your own Jurassic Park. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71810

Kids Drawing Interactive drawing program for kids. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71811

Kids General Tutor A collection of general programs on child education. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71812

Kids Startup Pack Easy-to-use interactive program to sharpen skills in children. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71813

Language Learner Program to learn Turkish, Japanese, Russian and Chinese. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71814

Language Learner 2- Spanish, French Program to learn Spanish, French, German and Italian. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71815

MARKETING MASTER A comprehensive guide to marketing and sales. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71816

Mathematics Tutor Educational set of mathematical programs for all ages. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71817

Music Teacher Includes interactive music teaching programs. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71818

Physics Tutor Tutor program to learn physics. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71819

Pre-school Collection Software tool kit for beginners. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71820

Programming Language Tutor Teaches the basics of dBASE, C++ etc. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71821

Quiz Maker Have a tryst with this program for improving your IQ. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71822

Space Astronomy Set A collection of educational programs on astronomy. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71823

Space Simulator Plenty of space simulators to help you probe deep into space. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71824

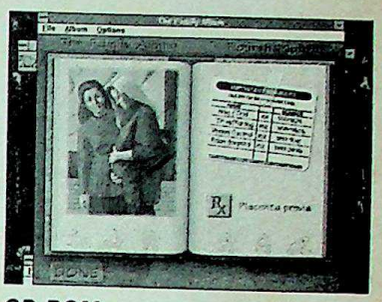
Spelling & Vocabulary Enhancer Program to help you excel in vocabulary and grammar. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71825

Sports Mania Collection of information on world sports. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71826

Typing Teacher Interactive education software on basics of computers. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71827

Typing Tutor Helps to learn typing on your PC. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71828

Weather Forecaster Includes weather tracking and forecasting programs. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71829

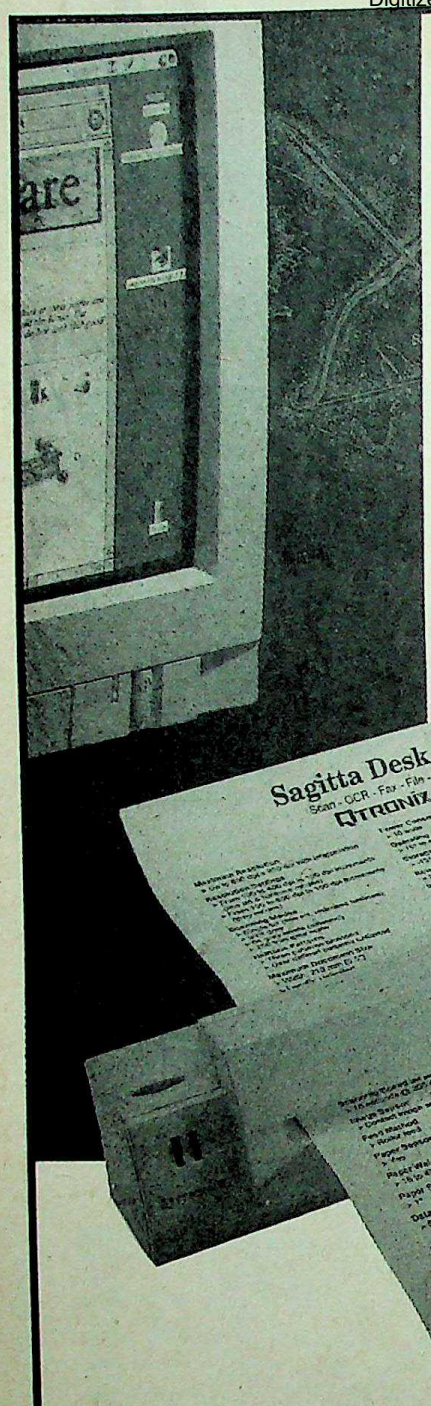


CD-ROMs are a great medium for families to browse encyclopedias on subjects from pregnancy to cooking

SOFTWARE EDUTAINMENT

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



SAGITTA DESK PRO
Ideal for any Small Office/Home Office

Take all your papers, pictures, reports, memos & clippings that have been cluttering your desk and turn them into digital tools that your PC can really work with.

SCAN

Scan directly to the bundled image editing software for high resolution images for use in just about any application.

OCR

Scan with the bundled OCR software and instantly transform pages of text to a word processing file format of your choice.

FAX

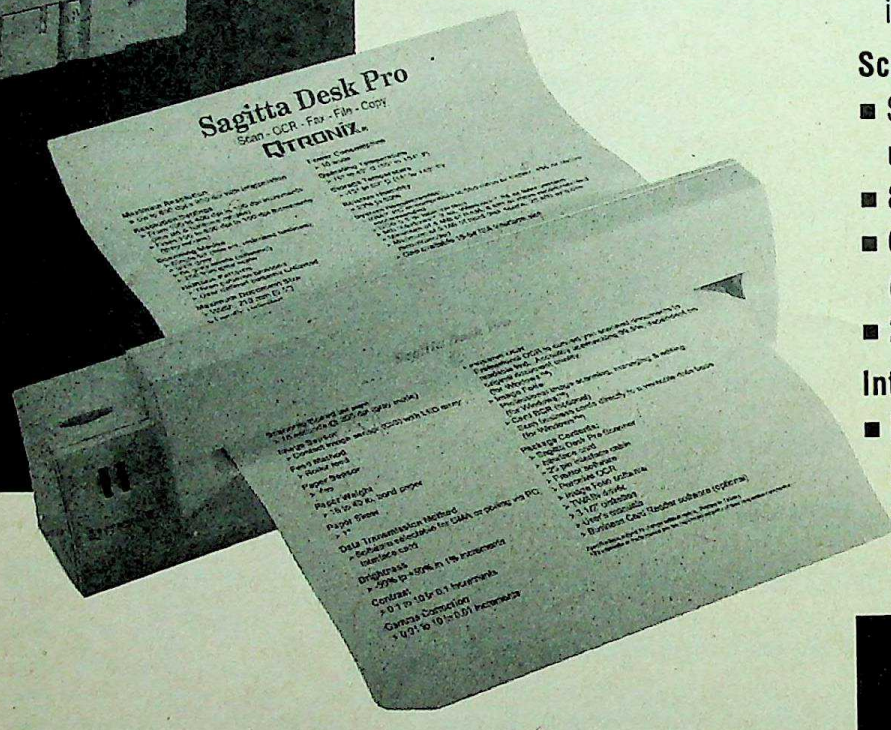
Scan directly to your fax modem and fax out what you want, right from your desk.

FILE

Scan to easily managed files utilizing the bundled file management software and never loose a document again.

COPY

Scan directly to your printer for fast easy copies without the need for a copy machine.



QTRONIX

The Sagitta Desk Pro is and ideal for today's small office and home offices where space, budget and efficiency are important issues.
This true gray scale sheet feeding small print desktop scanner is the perfect solution for getting paper out of the way and into your PC.

Maximum Resolution
- Up to 800 dpi x 800 dpi with interpolation

Scanning Modes
- Single - bit (Line art, unlimited halftone)
- 8-bit gray
- 64 gray levels (dithered)
- 256 true gray scale

Interface
- Hardware : 16 bit ISA card
  Software : TWAIN Compliant

Scanning Speed (A4 Page)
- 16 Seconds @ 200 dpi (gray mode)

Maximum Document Size
- Width : Min 216 mm (8.5")
- Length : Unlimited

Minimum Document Size
- Width Min. 50 mm
- Length : Min. 75 mm

BUNDLED SOFTWARE
Features :
- **Presto!**
- **Wordlink OCR**
- **ProImage Plus**

PUSHPAM

635 / 1-B, New Gajara Society, Bibvewadi, Pune : 411037.
Telephone. : 0212 415162 / 411279 / 417885 Fax : (0212) 416455

FLASH/PCS/9695

Available at: ●**M/s. A.R. Traders,** Nasik, Ph.: 580540 ● **M/s. Abacus Computers,** Nagpur, Ph.: 533154 ●**M/s. Athreya Enterprises,** Coimbatore, Ph.: 234974 ●**M/s. B'Algo, Nagpur,** Ph.:533703 ●**M/s. Computer Valley,** Secunderabad, Ph.: 814025 / ●**M/s. Communications & Systems,** Baroda, Ph.: 326561. ●**M/s. Chaitanya Marketing,** Kolhapur, Ph.: 38281. ●**M/s. Crystal Enterprises,** Jalgaon, Ph.: 29563. ●**M/s. Computer Hardware Consultancy,** Akola, Ph.: 28442 ●**M/s. Data Tech Corporation,** Mumbai, Ph.: / 3868460. ●**M/s. DOC-TOC Computers,** Goa Ph.: 720486. ●**M/s. FLO-ON Associates,** Bhopal, Ph.: 591122, 555846. ●**M/s. Intertrade,** Bangalore, Ph.: 2213509. ●**M/s. Hi-Tech Innovation,** Baroda. Ph.: 336608. ●**M/s. Interface Connectronics,** Ph.: 2232738, 2240754.●**M/s Info Aztek Pvt. Ltd.** Kochi ●**M/s. Krisan Office Automation,** Coimbatore, Ph.: 210747, 215091.●**M/s. Trading Co.,** Jalgaon, Ph.:23277 ●**M/s. Lalwani Electronics,** Mumbai, Ph.: 3821103, 386516. ●**M/s. Libra,** Hubli, Ph.: ●**M/s. Mastermind,** Surat, Ph.: 471713. ●**M/s. Magnanimous Automation,** Indore, Ph.: 410294. ●**M/s. Ortek Computers,** Ph.: 2081924, 2061244. ●**M/s. Prime Sources Technologies,** Madras, Ph.: 8282239.●**M/s. Polaris,** Belgaum, Ph.: ●**M/s. Pronate Systems,** Ahmednagar, Ph.:25724 ●**M/s. R.C. Automation,** Madras, Ph.: 836408. ●**M/s. S.P. Sales,** Pune, Ph.: ●**M/s. Spectrum Computer Services,** Baramati, Ph.:24546 ●**M/s. Scan Marketing,** Bangalore , Ph.: 2225140.●**M/s. Silicon Automation,** Kochi, Ph.:348033 ●**M/s. Skope,** Delhi, Ph.: 6421039 ●**S. S. S. Systems Pvt. Ltd.** , Madras, Ph.: 8240858. ●**M/s. Sumisha Computers,** Ahmedabad, Ph.: 6568850. ●**M/s. Suraj Computers,** Lucknow, Ph.: 393875. ●**M/s. Simha Associates,** Mysore, Ph.: 5106 ●**M/s. Seema Enterprises,** Calcutta. ●**M/s. Tripan Marketing Systems,** Rajkot, Ph.: 59295. ●**M/s. Universal Enterprises,** Ph.: 27518.●**M/s. Ultimate - M,** Aurangabad, Ph.: 25474.●**M/s. Udbhav Computers,** Jaipur, Ph.: 48706. ●**M/s. Valsa Enterprises,** Ahmedabad, Ph.: 6420332.●**M/s. Vestronics,** Mumbai, Ph.: 3859276.

Dealers & OEM enquiries are solicited

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...work Introductory course to commonly used DOS commands. **Price:** Rs 1,500 **Vendor:** Alpine ...formation **RQS#** 71830

...Sikkim Multimedia encyclopedia on Sikkim. **Price:** NA **Vendor:** Interactive VITA Pvt Ltd **RQS#** 71831

...ering Music Explores the evolution of music with playbacks from great composers. **Price:** Rs 8,800 **Vendor:** Databank Systems **RQS#** 71832

...Dot Helps in learning numbers and alphabets through pictures. Available in English, Hindi, Marathi and Gujarati. **Price:** Rs 750 **Vendor:** Knowledge Ware India **RQS#** 71833

...ress 1.0 Tutorial on data structures and its applications in graphics programming. **Price:** Rs 5,000 **Vendor:** Saba **RQS#** 71834

...a Booster Set A comprehensive tutorial on English grammar. **Price:** Rs 1,350 **Vendor:** Knowledge ...ware India **RQS#** 71835

...a Builder Set A comprehensive tutorial on English grammar. **Price:** Rs 950 **Vendor:** Knowledge ...ware India **RQS#** 71836

...h Vocab English vocabulary software. **Price:** Rs 650 **Vendor:** Knowledge Ware India **RQS#** 71837

...ress Encyclopedia of Nature Covers 250 species of plants and animals, over 700 photographs, 60 ...imation and 50 video sequences. **Price:** Rs 2,499 **Vendor:** Knowledge Ware India **RQS#** 71838

...ress Encyclopedia of Science Find out who's who in science through 1,700 entries. **Price:** Rs 2,499 **Vendor:** Knowledge Ware India **RQS#** 71839

...ress Virtual Reality BIRD Journey through a virtual museum of birds. **Price:** Rs 1,999 **Vendor:** ...Knowledge Ware India **RQS#** 71840

...ress Virtual Reality CAT Walk through a virtual reality cat museum. **Price:** Rs 1,999 **Vendor:** ...Knowledge Ware India **RQS#** 71841

... Medical Guide Covers more than 650 diseases and disorders. **Price:** Rs 2,999 **Vendor:** ...Knowledge Ware India **RQS#** 71842

...iet and Nutrition Consists of modules on dieting, recipes and meal masters. **Price:** Rs 499 **Vendor:** ...Databank Systems **RQS#** 71843

... Language Pack Provides users with tutorials on foreign languages. **Price:** Rs 499 **Vendor:** ...Databank Systems **RQS#** 71844

...an instant reference manual for students for competitive exams. **Price:** Rs 250 **Vendor:** Kanugovi ...Computer Centre **RQS#** 71845

...al Knowledge Set Pack of two titles with interesting facts on animals, continents, currencies and ...wonders of the world. **Price:** Rs 950 **Vendor:** Knowledge Ware India **RQS#** 71846

...aphy Pack Set of educational software on geography. **Price:** Rs 499 **Vendor:** Databank Systems ...RQS# 71847

...l Informant Sri Guru Granth Sahib in Gurmukhi and Roman scripts. **Price:** Rs 5,000 **Vendor:** ...Gabbon Inc. **RQS#** 71848

...Watch Pack Gives information on food, diet and nutrition. **Price:** Rs 499 **Vendor:** Databank ...Systems **RQS#** 71849

...Processing Tutor CBT on image processing techniques. Bundled with CCD camera, frame grabber ...etc. **Price:** Rs 57,750 **Vendor:** Mediatronix **RQS#** 71850

...e Maths Series A comprehensive software, developed according to the CBSE syllabus. **Price:** Rs ...999 **Vendor:** Innovations Software & Exports **RQS#** 71851

...e Science (Living) Series Covers Biology as per the CBSE syllubus. For students of Standards VI ...to VIII. **Price:** Rs 1,999 **Vendor:** Innovations Software & Exports **RQS#** 71852

...e Science (Material) Series Covers material science in terms of Physics and Chemistry. Based on ...CBSE syllubus. **Price:** Rs 1,999 **Vendor:** Innovations Software & Exports **RQS#** 71853

... Guide Guide for Netizens with information on various sites. **Price:** Rs 2,500 **Vendor:** Plans ...proposals & projects **RQS#** 71854

... Study Pack Set of two titles: Super Sums for basic maths and Junior Vocab for English language. ...Price: Rs 950 **Vendor:** Knowledge Ware India **RQS#** 71855

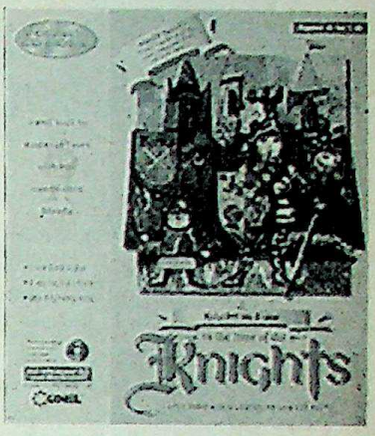
...WELL NetWare tutor for Windows users. **Price:** Rs 5,000 **Vendor:** Emsqukre Software **RQS#** 71856

... for KG A set of five edutainment titles for kids. **Price:** Rs 1,250 **Vendor:** Knowledge Ware India ...RQS# 71857

... for Nursery A set of four edutainment titles for kids. **Price:** Rs 850 **Vendor:** Knowledge Ware ...India **RQS#** 71858

... for STD-I A set of seven edutainment titles for kids. **Price:** Rs 1,650 **Vendor:** Knowledge Ware ...India **RQS#** 71859

... for STD-II A set of two edutainment titles for kids. **Price:** Rs 1,950 **Vendor:** Knowledge Ware India ...RQS# 71860



Games are the most popular of graphics software, with packages like DOOM displacing mainstream software in sales and awards

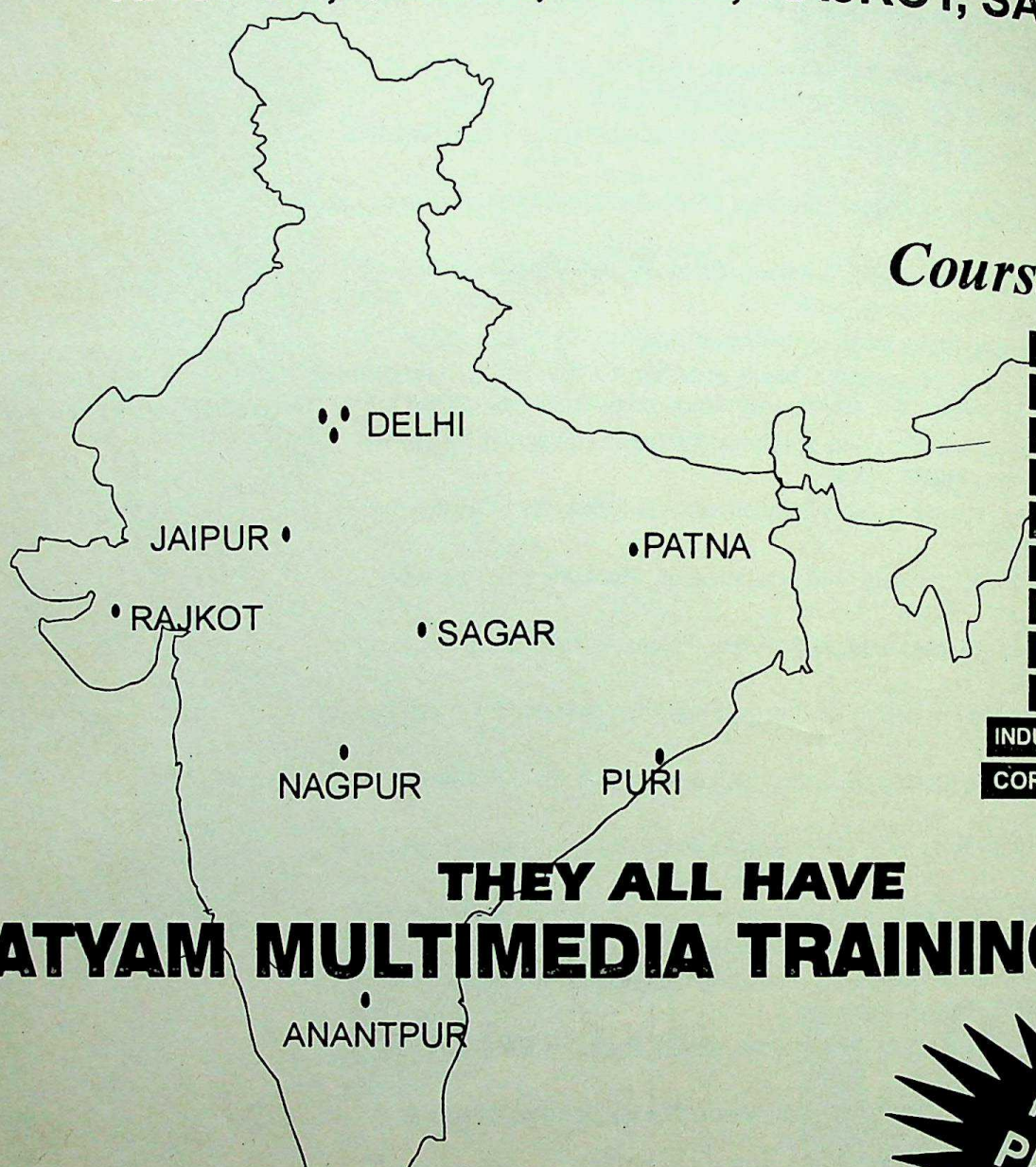
SOFTWARE EDUTAINMENT

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHAT IS COMMON AMONG

ANANTPUR, PURI, DELHI, JAIPUR, NAGPUR, QUILON, PATNA, RAJKOT, SAGAR



Courses Offered in

- FASHION DESIGNING
- TEXTILE DESIGNING
- JEWELLERY DESIGNING
- INTERIOR DESIGNING
- 2D & 3D ANIMATION
- DTP & GRAPHICS
- MULTIMEDIA
- DIGITAL VIDEO EDITING
- IMAGE PROCESSING
- INDUSTRIAL DESIGNING (CAD)
- CORPORATE PRESENTATION

THEY ALL HAVE

SATYAM MULTIMEDIA TRAINING CENTE

NATIONAL PRESENCE

Your only chance to own the
MOST PRESTIGIOUS NAME in Multimedia Training
Become our franchisee to prosper
&
Join hands with the only National Multimedia Company

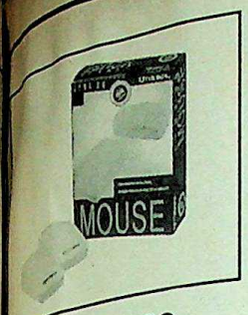
SATYAM
Graphics Pvt. Ltd.

B-61, KALKAJI, New Delhi -110 019
Tel: 6228217, 6483187 **Fax**: 6478760.

Training Centers: JAIPUR, 81, Gaurav Nagar, Civil Lines, Ph.381922; **NEW DELHI**, B-61, Kalkaji Ph.6228217 6483187 A-13, Prem Vihar, Rohini Ph. 7216732 / 401, Aventika Bldg., J block Main market, Saket Ph. 6963777; **SAGAR**, Civil Line; **ANANTPUR**, **QUILON**, **PURI**; **JHANSI**; **PATNA**; **NAGPUR**; **RAJKOT**.....

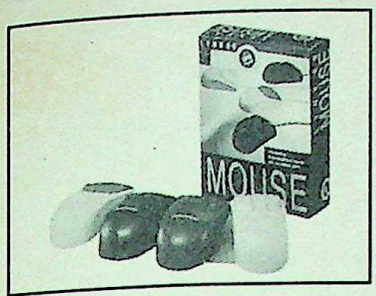
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



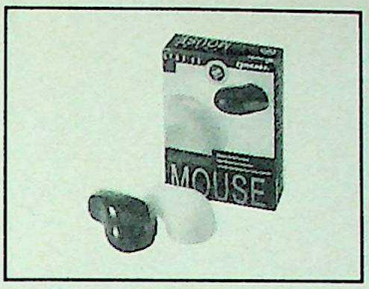
ynx 30 Mouse

iginal white mouse; true 400 20 to 6400 dpi variable olution; standard & deluxe kages.



Lynx 66 Mouse

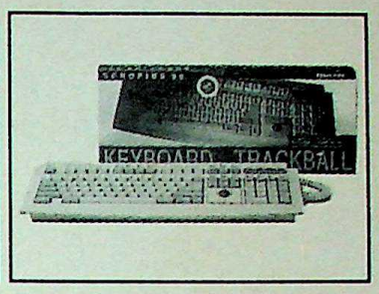
4 colour combinations: Black , White, Dark Green, Multi - coloured; true 400 dpi; 20 to 6400 dpi variable resolution; standard & deluxe packages.



Lynx 95 Mouse

Unique ergonomic design; 20 to 6400 dpi variable resolution; available in black or white

* Lynx 95 S Microsoft & PC - Mouse compatible.

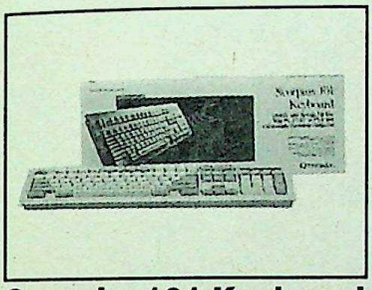


Scorpius Trackball

Perfect for windows users; new IBM layout standard with mini trackball; 101/102 key compatible for IBM AT & PS/2; rubber mechanical key switches; variable resolution upto 6400 dpi; Pop-up Menus.

corpius Key Pen

a input directly from the yboard; multi-functional input ice that combines pen-based ut with full 101/102 key yboard; drivers included.



Scorpius101 Keyboard

Standard 101/102 key IBM XT/ AT & PS/2 compatible layout; rubber mechanical key switches; slim new design.

Orion 95 Gamepad

Multi-directional game pad; left & right hand use; auto fire turbo mode; A,B,C & D fire buttons; attaches to any game port.

Libra 90 Trackball

Full size desktop trackball; 20 to 6400 dpi variable resolution; button lock function; standard & deluxe package.

ibra 22 Trackball

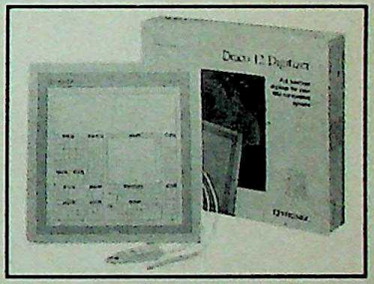
-trackball for notebooks or PC; 20 to 6400 dpi variable ution; standard & deluxe age.

Sagitta Gray Scanner

Maximum 800 dpi; 256 true gray; TWAIN driver, Proimage Plus for Windows; JPEG file compression; OCR & Business Card Reader softwrae for Windows; alternative package with PCMCIA type II interface card.

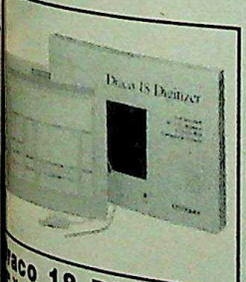
Sagitta Colour LE Scanner

24 bit; 16.8 million colours; 800 dpi with interpolation; TWAIN driver, Proimage Plus for Windows; JPEG file compression; OCR & Business Card Reader software for windows



Draco 12 Digitizer

12" X 12"; 1000 lpi; AutoCAD templates; drivers for AutoCAD, Windows, digitizer & Mouse; emulates Summagraphics Binary & ASCII, GTCO Binary & CalComp 2000



raco 18 Digitizer

X 12" 1000 lpi; AutoCAD, plates; drivers for AutoCAD, dows, digitizer & mouse; ates Summagraphics MM es 1201

Orion 90 Joystick

Analog joystick design; 4 fire buttons; precision axis control; sturdy suction cups; attaches to any game port.

QTRONIX®

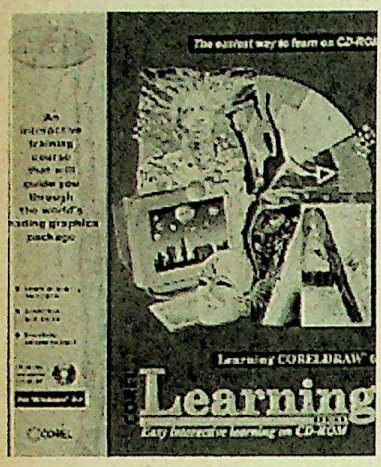
Sole Distributor for India:
PUSHPAM
Computers & Softwares
635/1-B, New Gajara Society, Bibvewadi, Pune 411 037. Tel.: 0212 415162 / 411279 / 417885
Fax : (0212) 416455

Aquila 250i

PC card drive for PCMCA type I,II & III cards; two card slots; operates two type I; two type II or one type II & one type III at the same time; CardTalk utility software; PCMCIA 2.0 / JEIDA 4. 1/ExCA 1.50 compatible interface; installs in standard 3 1/2" drive bay.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Training CD-ROMs are one of the most effective uses of multimedia, covering everything from arc welding to software

Kindergarten Pack Software for pre-schoolers. Includes ABC font-keys, animated alphabets, etc. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71861

Larry Magid's Essential Internet Fully interactive multimedia training CD-ROM for Net users. 1,790 **Vendor:** Unison Computer Systems **RQS#** 71862

MCQ Master Ideal for automation of MCQ examinations. **Price:** Rs 8,000 **Vendor:** CyberMed **RQS#** 71863

MS Encarta 1995 Microsoft's encyclopedia. **Price:** $82 **Vendor:** Ultimedia System Associates

MS Infotainment CD-ROMs Microsoft infotainment package. **Price:** $55 **Vendor:** Ultimedia System Associates **RQS#** 71865

MS Magic Bus CD-ROMs Microsoft's Magic Bus series. **Price:** $38.5 **Vendor:** Ultimedia System **RQS#** 71866

MS Multimedia CD-ROMs A pack of edutainment titles from Microsoft. **Price:** $28 **Vendor:** Ultimedia System Associates **RQS#** 71867

Manageware 1.0 Helps in learning marketing, personnel, finance, operations and general management **Price:** Rs 24,950 **Vendor:** MultiMode MultiMedia **RQS#** 71868

Mapdata Products Databases of India's national highways, state boundaries etc. **Price:** Rs 2,500 Infotech Enterprises Ltd **RQS#** 71869

Mastering Multimate Advantage Self-paced tutorial for Multimate Advantage. **Price:** NA **Vendor:** Data Systems **RQS#** 71870

Math Booster Set Set of four mathematics titles for students of standard IV-VI. **Price:** Rs 1,350 Knowledge Ware India **RQS#** 71871

Maths and Geometry Tutors Menu-driven tutorials on mathematics with modules on calculus, etc. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71872

Millie's Math House Discover the beauty of mathematics with Millie, a friendly cow. **Price:** Rs 995 Knowledge Ware India **RQS#** 71873

Morse Trainer 5.0 Menu-driven tutor for HAM operators. **Price:** Rs 250 **Vendor:** Sweet Home **RQS#** 71874

Music Maker Pack A collection of programs for creating music on the desktop. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71875

My First Incredible Amazing Dictionary Over 1,000 words with pictures, sound effects and animation **Price:** Rs 1,999 **Vendor:** Knowledge Ware India **RQS#** 71876

My First Picture Dictionary Teaches over 350 most common words used in English, Hindi, Marathi Gujarati. **Price:** Rs 950 **Vendor:** Knowledge Ware India **RQS#** 71877

PC Basics 2.00 Introduction to computers for school children. **Price:** Rs 75 **Vendor:** Kanugovi Centre **RQS#** 71878

Pairing Game Sharpens visual association skills of pre-nursery children using graphics, text and **Price:** Rs 750 **Vendor:** Knowledge Ware India **RQS#** 71879

Paradox with Ease Mouse driven self-paced tutorial for Paradox. **Price:** NA **Vendor:** Cirlacs **RQS#** 71880

Phono Drill Teaches over 170 phonic words using graphics, text and audio clips with Hindi, Marathi Gujarati translation. **Price:** Rs 950 **Vendor:** Knowledge Ware India **RQS#** 71881

Physics Tutor Menu-driven tutorials on physics. **Price:** Rs 499 **Vendor:** Databank Systems

Quiz Master 1.0 Educational aid for generating question papers. **Price:** Rs 2,500 **Vendor:** **RQS#** 71883

Racsma CBT Packages Each package contains theory and test modules on business management through English. **Price:** Rs 950..22,500 **Vendor:** Raychan Sysmatics **RQS#** 71884

Racsma Computer Engineering 3.0 Covers OSs, system analysis, and programming in BASIC and **Price:** Rs 6,000 **Vendor:** Raychan Sysmatics **RQS#** 71885

Racsma Electronics 3.0 Covers fundamental concepts (with diagrams) of electronics. **Price:** Rs 6,000 **Vendor:** Raychan Sysmatics **RQS#** 71886

Racsma Kindergarten Set 3.0 A comprehensive package for kids edutainment. **Price:** Rs 950 **Vendor:** Raychan Sysmatics **RQS#** 71887

Read, Listen and Learn-MUPPETS Helps improving reading skills in children. **Price:** Rs 995 **Vendor:** Knowledge Ware India **RQS#** 71888

Sammy's Science House An introduction to the world of science. **Price:** Rs 995 **Vendor:** Knowledge India **RQS#** 71889

Science Booster Set A set of four titles on physical sciences. **Price:** Rs 1,350 **Vendor:** Knowledge India **RQS#** 71890

Seaware Nursery Park-2 Helps in developing IQ and competence in mathematics. **Price:** Rs 1,999 Innovations Software & Exports **RQS#** 71891

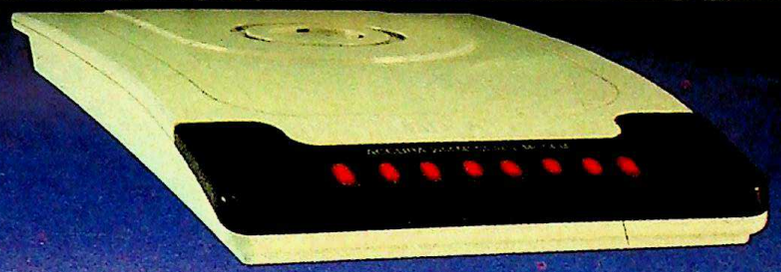
SOFTWARE
EDUTAINMENT

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

ACCURA Message Modem

288

Use The Real Thing. Always!



When the first Smartmodem™ shipped in 1981, Hayes opened the on ramp to the information highway, setting the standard for modem communications. Today these standards are adopted by other manufacturers and software developers. Hayes has been chosen by Fortune 1,000 companies 3 to 1 over Hayes-Compatible modems for reliability and compatibility. Put that same quality to work in your home or office.

Installation and Set-up is a Snap

- Modem installation as easy as one-two-three, with Windows™ 95 Plug-n-Play compatibility.
- Move from function to function quickly and easily using intuitive Windows™ interface in this Data/FAX/Voice software.

Let Your Computer Speak For You

- Choose one of the pre-recorded Voice Mail Messages or record your own.
- You determine the Voice Mail Message your callers hear and how they can reach you to prioritize messages.

Transmit Data in the Blink of an Eye

- Save time and money by using 28,800 bits/s data speed.
- Transfer 100 pages of text in 30 seconds with throughput up to 115,200 bits/s.
- Protect data with the international V.42 error control standard.
- Supports the Hayes Standard AT Command Set—the industry standard.

FAX at Your Fingertips

- Send and receive Data and FAXes on one line.
- High speed FAXes at 14,400 bits/s.
- FAX-on-Demand provides an automated service that will FAX your customers back with requested information.
- Send and receive Group 3 FAXes with support for both Class 1 and Class 2 modem standards.

Unsurpassed Hayes Reliability

- Our legendary Customer Support team will answer all your questions.

Digitized by Arya Samaj Foundation Chennai and eGangotri

Datamatics Ltd.

BOMBAY : 106, Embassy Centre, Nariman Point, Bombay - 400 021. Tel.: (022) 283 1188/285 3107. Fax : (022) 285 3108.

DELHI : K-1/78, II Floor, Chittaranjan Park, Main Road, New Delhi - 110 019. Tel.: (011) 646 4455. Fax : (011) 621 1030.

BANGALORE : No. 26 (Old No. 32/2), Spencer Road, Frazer Town, Bangalore - 560 005. Tel.: (080) 554 4600. Fax : (080) 554 6266.

CALCUTTA : 63, Rafi Ahmed Kidwai Road, Calcutta - 700 016. Tel.: (033) 244 6211/244 6212. Fax : (033) 244 6213.

Hayes™
Increasing the Speed of Business.™

All the trademarks are of their respective owners.

Yes, I am interested in the Hayes Accura 288 and would like ☐ to purchase it ☐ to receive more details.

Name : _____

Designation : _____

Company : _____

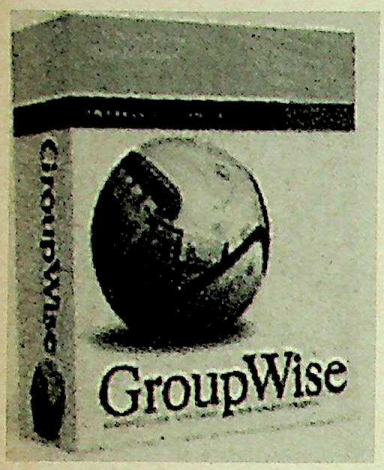
Address : _____

_____ Tel.: _____ Fax : _____

Mail / Fax to Datamatics Information Technology, 106, Embassy Centre, Nariman Point, Bombay - 400 021. Tel.: (022) 283 1188 / 285 3107. Fax : (022) 285 3108.

: UBIQUITAS/250 :

Digitized by Arya Samaj Foundation Chennai and eGangotri



Groupware is the software category of the nineties, with connected workgroups gaining tremendous importance in office computing

Seaware Primary Park-1 A collection of five edutainment titles. **Price:** Rs 1,999 **Vendor:** Innovations Software & Exports **RQS#** 71892

Seaware Primary Park-2 A pack of five edutainment titles. Helps in IQ development. **Price:** Rs 1,999 **Vendor:** Innovations Software & Exports **RQS#** 71893

Simsex A simulation game for stock brokers. **Price:** Rs 250 **Vendor:** Whizkids Software **RQS#** 71894

Spell-Boom Helps in enhancing your spelling skills. **Price:** Rs 350 **Vendor:** Creative Computer Services **RQS#** 71895

Sports & Hobby Includes modules on sports and hobbies. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71896

Story Book Weaver Deluxe Helps kids create their own stories with pictures, words and sounds. **Price:** Rs 995 **Vendor:** Knowledge Ware India **RQS#** 71897

Study Pack-STD III A set of five titles based on Maharashtra (SSC) board syllabus. **Price:** Rs 1,500 **Vendor:** Knowledge Ware India **RQS#** 71898

Study Pack-STD IV A five-title set comprising English Grammar, Mathematics, Science, History and Geography. **Price:** Rs 1,500 **Vendor:** Knowledge Ware India **RQS#** 71899

Study Pack-STD V A set of three titles including English Grammar, Mathematics and Science. **Price:** Rs 1,200 **Vendor:** Knowledge Ware India **RQS#** 71900

Study Pack-STD VI A set of two titles comprising mathematics and general science. **Price:** Rs 800 **Vendor:** Knowledge Ware India **RQS#** 71901

Teacher's Tool Kit Tool for teachers and instructors to organize classes and other administrative work. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71902

The Ultimate Human Body CD-ROM title that demonstrates the working of the human body. **Price:** Rs 2,499 **Vendor:** Knowledge Ware India **RQS#** 71903

The Way Things Work CD-ROM title with over 200 inventions and more than a 1,000 illustrations and animations. **Price:** Rs 2,499 **Vendor:** Knowledge Ware India **RQS#** 71904

Thinking Things Software that developes a child's thinking skills. **Price:** Rs 995 **Vendor:** Knowledge Ware India **RQS#** 71905

Understanding Internet Tutorial on Internet. **Price:** NA **Vendor:** Cirlacs Data Systems **RQS#** 71906

Understanding OS/2 2.1 Tutorial for OS/2. **Price:** NA **Vendor:** Cirlacs Data Systems **RQS#** 71907

Unix at Work UNIX tutorial for DOS users. **Price:** Rs 5,000 **Vendor:** Alpine Automation **RQS#** 71908

Vision CAD Teacher 1.1 CBT to teach geometric drawing to first year engineering students. **Price:** Rs 31,200 (DOS); Rs 125,000 (UNIX) **Vendor:** Computer Vision Laboratories **RQS#** 71909

Vocabulary And Grammar Pack Educational software that helps you build your vocabulary and grammar. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71910

Vocabulary Master Educational game for children to improve their vocabulary. **Price:** Rs 450 **Vendor:** Creative Computer Services **RQS#** 71911

Win95/Internet Tutors Win95 and Internet teaching software. **Price:** Rs 3,000 **Vendor:** IT Secure **RQS#** 71912

Windows 95 / Internet Tutors Combines hands-on experience, animation, video and audio to help users learn Windows 95. **Price:** Rs 3,000 **Vendor:** IT Secure **RQS#** 71913

SOFTWARE GAMES

GAMES

Apogee Games Collection Collection of games from Apogee software. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71914

Arcade Games Set of arcade games like Super Blast, Escaped, Galatix, Robomaze, Sherlock Holmes, Mario. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71915

CGA Games Pack Collection of action-packed games. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71916

Computer Housie Software for generating 500,000 tickets at a time. **Price:** Rs 2,500 **Vendor:** Decision Plus Systems Inc. **RQS#** 71917

DBS 21st Century Games Package with games for all ages. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71918

DBS 500 Classic Action Packed Games Collection of games. **Price:** Rs 1,499 **Vendor:** Databank Systems **RQS#** 71919

DBS Apogee Games Collection Vol. 1 Includes action-packed games. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71920

DBS Apogee Games Collection Vol. 2 A collection of games with digitized effects. **Price:** Rs 739 **Vendor:** Databank Systems **RQS#** 71921

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ACT NOW
Get 15% off on the
'Pen-to-Jet'
trade-in offer.*

...roll-feed you wouldn't get those tedious ...ments that waste time and money. You'd ...er because you wouldn't have to feed the ...paper in yourself (sometimes more than ...es it all goes wrong). And you'd save ...because there would be less wastage and, ...roll-feed paper is more economical ...feed media.

...you can get all these advantages ...ed in two new plotters from ...Packard. There's the colour ...Jet 350C and the monochrome ...Jet 330 (which can be upgraded ...).

...er plotter provides an affordable ...to plotting, with the flexibility ...plain and glossy paper. And ...the HP reliability and quality ...important when your business ...on it.

- Affordable, large format inkjet plotting from HP
- Sharp, crisp 600dpi black
- Brilliant colours with 300dpi
- CAD Media flexibility including glossy photofilm and plain paper colour prints
- Designed for Windows® 95

For further information, please contact any of our dealers. Or, to receive product data sheets, please call **HP FIRST Fax Service on (011) 6226420** from your fax machine or touch-tone telephone and request document ID number 90325.

HP Printers. The way the world prints.

HEWLETT® PACKARD

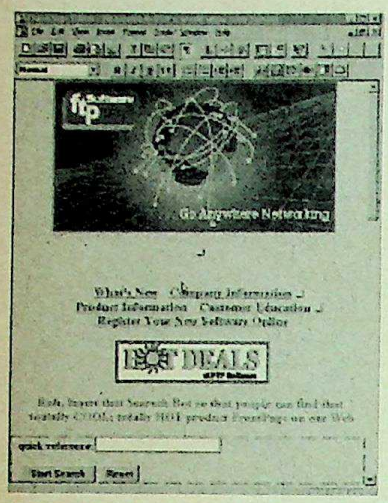
* Contact your nearest HP dealer with your pen/pencil Plotter serial number and other details to get 15% off on a HP DesignJet 330 or HP DesignJet 350C. Offer open till 31st Aug'96.

...ckard (India) Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi- 110 019. Tel : 6472351, 6472328-30.
...Dealers : • **Electronics Corporation of India Ltd.,** Bangalore : Tel : 2250231. Mumbai : 4227492. Calcutta : Tel : 2495523. Hyderabad : Tel : 620505. Madras : Tel : 4349620.
...: 6566225. • **Godrej Pacific Technology Ltd.,** Bangalore : Tel : 2216487. Mumbai : Tel : 2079663. Calcutta : Tel : 3596111. Hyderabad : Tel : 201876.
...: 6857331. New Delhi : Tel : 6830690. • **HCL Hewlett-Packard Ltd.,** Bangalore : Tel : 5584091. Mumbai : Tel : 2626984. Calcutta : Tel : 2478185. Hyderabad : Tel : 813734.
...: 5276242. New Delhi : Tel : 6444293. • **Larsen & Toubro Ltd.,** Bangalore : Tel : 5511808. Mumbai : Tel : 6401232. Calcutta : Tel : 2422301. Hyderabad : Tel : 237400.
...: 6562141. New Delhi : Tel : 3731873. • **Orbit Peripherals Pvt. Ltd.,** Bangalore : Tel : 3342081. New Delhi : Tel : 6940218. • **Pertech Computers Ltd.,**
...: 5585025. Mumbai : Tel : 4224143. Calcutta : Tel : 749754. Madras : Tel : 8258485. New Delhi : Tel : 6446935. • **Redington (India) Pvt. Ltd.,** Bangalore : Tel : 5538032.
...: 2832478. Calcutta : Tel : 2406747. Hyderabad : Tel : 819134. Madras : Tel : 2553513. New Delhi : Tel : 6920202.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Mw Bozell-HP-124-96

Digitized by Arya Samaj Foundation Chennai and eGangotri



Today's Web-page creation and management packages such as FrontPage let you rapidly create and run Web sites

DBS CGA Games Host of action, adventure, arcade and other entertaining games for CGA systems. Rs 349 **Vendor:** Databank Systems **RQS#** 71922

DBS Entertainer - Action Pack of entertaining action-packed games. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71923

DBS Entertainer - Adventure Exciting collection of adventure games. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71924

DBS Entertainer - Arcade Pack of interactive and interesting arcade games. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71925

DBS Entertainer - Fun Games Collection of fun, humor and entertainment. Includes interactive games. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71926

DBS Entertainer - Kid Games Pack of fun and education for kids of all ages. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71927

DBS Entertainer - Puzzles Interesting pack with lots of puzzles. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71928

DBS Entertainer - Simulation Host of simulation games packed into this collection. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71929

DBS Entertainer - Wargame Action and thrill packed game of war. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71930

DBS Entertanier - Chess Card Helps in enhancing your skills in chess. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71931

DBS Games Platinum A collection of games. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71932

DBS House of Games A collection of exciting games. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71933

DBS Leisure Games Collection A collection of games for all ages. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71934

DBS Multimedia Games A bundle of games. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71935

DBS Window Games Collection of Windows-based action, arcade and entertainment games. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71936

Game of Flash Gives you the feeling of playing against three ace human gamblers each of them determined to give you a punch in every game. **Price:** Rs 1,100 **Vendor:** Esskay Software Systems **RQS#** 71937

Roulette 1.0 Graphical version of the popular casino game, roulette. **Price:** Rs 500 **Vendor:** Arita Chakravarty **RQS#** 71938

Simulation Pack Set of simulation games such as Air Traffic, Apollo and Mazeball. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71939

VGA Games Collection of VGA games. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71940

WC Software Sampler CD-ROM Packed with 600 MB of games, clipart, fonts, music files, animations, shareware from Walnut Creek **Price:** Rs 295 **Vendor:** Advantage Multimedia **RQS#** 71941

SOFTWARE GROUPWARE

GROUPWARE

Lotus Notes Suite Combined solution of Lotus Notes groupware and Lotus SmartSuite. **Price:** Rs 75,... **Vendor:** Tata Consultancy Services **RQS#** 71942

Novell GroupWise 4.1 Integrated e-mail, group scheduling, personal calendar and task management. **Price:** Rs 30,580..109,780 **Vendor:** Kunhar Peripherals Pvt Ltd **RQS#** 71943

INTERNET

Adobe Page Mill Software for creating WYSIWYG Web pages. **Price:** Rs 5,950 **Vendor:** Wipro Ltd **RQS#** 71944

Adobe SiteMill Includes all the Web page authoring features found in PageMill. **Price:** Rs 19,950 **Vendor:** Wipro Ltd **RQS#** 71945

Asymetrix WEB 3D Helps in creating attractive graphics for WWW pages **Price:** Rs 5,900 **Vendor:** Databank Systems **RQS#** 71946

Explore 2.0 for Windows Search tool for the Internet. Can also send and receive e-mail, read and participate in newsgroups and browse the Web. **Price:** Rs 2,050 **Vendor:** Priya International Ltd **RQS#** 71947

FrontPage Client server Website authoring and management tool. **Price:** NA **Vendor:** Priya International Ltd **RQS#** 71948

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Digitized by Arya Samaj Foundation Chennai and eGangotri

HEWLETT® PACKARD

NORTH ZONE : NEW DELHI : ★ ▲ Agnom Computers Pvt. Ltd. : Tel : 011 - 687 4725. ★▲ Automation Systems : Tel : 011 - 546 4426. ★ ▲ Computer Mart : Tel : 011 - 374 7275. ★▲ Groovy Communications: Tel : 011 - 646 1994. ★ ▲ Intec Automation Pvt. Ltd. : Tel : 011 - 622 6739. ★ ▲ Kadam Marketing: Tel : 011 - 573 9370. ★ ▲ Magnum Elec. Corporation : Tel : 011 - 576 1206. ▲ Alekha Marketing : Tel : 011 - 8-29 2357. ▲ Associated Business Computers : Tel : 011 - 331 3369. ▲ Hytex Systems : Tel : 011 - 461 0601. ▲ IT&T Enterprise Pvt. Ltd. : Tel : 011 - 617 2890. ▲ MC Modi & Co., : Tel : 011 - 646 1229. ▲ Micro Max Technologies Pvt. Ltd. : Tel : 011 - 578 7014. ▲ Peripheral Point : Tel : 011 - 541 1604. ▲ S D Computers & Technical Services : Tel : 011 - 576 1122. ▲ Samtech Engineering Pvt. Ltd. : Tel : 011 - 648 5959. ▲ Vidur & Company Pvt. Ltd., : Tel : 011 - 622 3085. ▲ Unique Peripherals & Communications: Tel : 011 - 723 2482. ★ ACE Infotech : Tel : 011 - 698 6566. ★ Bharat Computer Service : Telefax : 011 - 682 9028. ★ Cambe Point Pvt. Ltd. : Tel : 011 - 335 0252. ★ EBM : Tel : 011 - 220 4422. ★ Elite Business Machines Pvt. Ltd. : Tel : 011 - 241 3366. ★ LMR International : Tel : 011 - 66 4222. ★ Microtech Computers : Tel : 011 - 327 8565. ★ Mayank Computers : Tel : 011 - 691 4595. CHANDIGARH : ▲ Alfa Electronics : Tel : 0172 - 60 5150. ▲ Independent Business Machines : Tel : 0172 - 60 9659. JALANDHAR : ▲ Computer Systems : Tel : 0181 - 25 1363. LUCKNOW : ▲ Media Distributors : Tel : 0522 - 22 9302. LUDHIANA : ▲ All India Marketing Services : Tel : 0161 - 40 4070. ▲ Computer Systems : Tel : 0161 - 66 3930. VARANASI : ▲ Varanasi Computers Pvt. Ltd. : Tel : 0542 - 35 1133.

EAST ZONE : CALCUTTA : ★ ▲ Trisita Corporation : Tel : 033 - 244 5564. ★ ▲ Lalani Infotech : Tel : 033 - 40 8573. ▲ Delta Computer Services : Tel : 033 - 29 5471. ▲ Victor Engineering : Tel : 033 - 54 1074. ★ Binary Fusion Systems : Tel : 033 - 745 7633. ★ Capital Electronics : Tel : 033 - 337 8180. ★ Capital Electronics : Tel : 033 - 228 0608. ★ Genesis Computers : Tel : 033 - 530 9485. SHILLONG : ▲ India Export and Import Co., : Tel : 0364 - 22 3949.

HP's range of PC & Peripheral Products. Available just about everywhere.

SOUTH ZONE : BANGALORE : ★ ▲ Future Computers : Tel : 080 - 665 0876. ▲ Atronic Infotech Pvt. Ltd. : Tel : 080 - 226 0363. ▲ Business Link : Tel : 080 - 221 8593. ▲ Pacer Automation : Tel : 080 - 558 6845. ▲ S K International : Tel : 080 - 62 8508. ▲ Veritas Marketing Services : Tel : 080 - 558 9734. ▲ Vertex : Tel : 080 - 335 9415. ▲ Vitage Systems Pvt. Ltd. : Tel : 080 - 22 44581. ★ Span Sales International : Tel : 080 - 226 3002. ★ Win Systems : Tel : 080 - 222 0249. ▲ Compuage Electronics Pvt. Ltd. : Tel : 080 - 558 8241. ▲ Karthik Business Machines Pvt. Ltd. : Tel : 080 - 558 4493. ▲ Kruthi Computer Services Pvt. Ltd. : Tel : 080 - 332 5751. ▲ Geeta Electronics Pvt. Ltd. : Tel : 080 - 334 1351. COIMBATORE : ▲ Access Business Machines: Tel : 0422 - 215 720. ▲ First Line Business Systems : Tel : 0422 - 212993. ▲ Init Systems Pvt. Ltd. : Tel : 0422 - 213 123. ▲ Krisan Office Automations Pvt. Ltd. : Tel : 0422 - 21 0747. ▲ Sri Eaaswaris Agencies Pvt. Ltd. : Tel : 0422 - 23 3202. HYDERABAD : ▲ Eclat Systems Pvt. Ltd. : Tel : 040 - 81 1006. ▲ Frontline Technologies Ltd. : Tel : 040 - 84 7628. ▲ Mohan Computers Pvt. Ltd. : Tel : 040 - 84 9929. ★ Daisy Systems Pvt. Ltd. : Tel : 040 - 243 853. KOCHI : ▲ Aldous Glare Trade & Exports : Tel : 0484 - 37 2155. ▲ Hikae Computers Pvt. Ltd. : Tel : 0484 - 85 7054. ▲ Info-tech Marketing Pvt. Ltd. : Tel : 0484 - 36 3411. MADRAS : ▲ ATI Inc. : Tel : 044 - 83 1583. ▲ Business Link : Tel : 044 - 827 2611. ▲ Cadgraf Computers Ltd. : Tel : 044 - 826 9021. ▲ Megatrends Pvt. Ltd. : Tel : 044 - 825 0142. ▲ Micro Automation : Tel : 044 - 828 2856. ▲ PC India : Tel : 044 - 826 7029. ▲ Triumph Information Technology Ltd. : Tel : 044 - 823 3579. ▲ U.S.A. Computer System : Tel : 044 - 45 4491. ▲ VI Microsystems (P) Ltd. : Tel : 044 - 433 0367. ★ Skylark Systems & Peripherals Pvt. Ltd. : Tel : 044 - 824 0893. ★ Soft Bank Microsystems Pvt. Ltd. : Tel : 044 - 499 2209. MYSORE : ▲ Computer Printing Products & Access : Tel : 0821 - 36221. SALEM : ▲ Infotech Computer Services : Tel : 0427 - 41 [illegible]. SIVAKASI: ▲ Rhino Computers : Tel : 4560 - 24964. THIRUCHIRAPALLI : ▲ Bits & Bits Consultancy : Tel : 0431 - 33766. TRIVANDRUM : ▲ Electronic Trade Links : Tel : 0471 - 44 4798. ▲ Softec Computers Ltd. : Tel : 0471 - 46 2395.

[illegible] : AHMEDABAD : ★ ▲ Crescent [illegible] : Tel : 079 - 44 4094. ▲ Ashtech [illegible] Pvt. Ltd. : Tel : 079 - 40 3658. [illegible]ace Technology : Tel : 079 - 45 2041. [illegible] Wave Systems Pvt. Ltd. : Tel : 079 - [illegible] Dot Cad Pvt. Ltd. : Tel : 079 - 466757. [illegible]ge Computers Services: Tel : 079 - [illegible] BHOPAL : ▲ Coral Business System [illegible] : Tel : 0755 - 55 4503. ▲ Innovations : [illegible] - 55 0309. ▲ Venus Sales & Service : [illegible] - 55 4512. MUMBAI : ★ ▲ Compunics [illegible]tion Systems Ltd. : Tel : 022 - 288 0400. [illegible]ary Office Automation Pvt. Ltd. : [illegible] - 430 3555. ★ ▲ HTP Systems : [illegible] - 872 9989. ★ ▲ Liberty Automation [illegible] : Tel : 022 - 416 4182. ★ ▲ Mascom [illegible]nics Pvt. Ltd. : Tel : 022 - 372 3134. [illegible]dventure Marketing : Tel : 022 - [illegible] ▲ Aibani Computers : Tel : 022 - [illegible] ▲ Ashtech Infotech Pvt. Ltd. : Tel : [illegible] 1311. ▲ Bapna Computers Ltd. : Tel : [illegible] 8563. ▲ Excel System : Tel : 022 - [illegible] ▲ Innovative Enterprise : Tel : 022 - [illegible] ▲ IT&T Enterprises Pvt. Ltd. : Tel : [illegible] 9131. ▲ M C Modi & Co., : Tel : 022 - [illegible] ▲ Neoteric : Tel : 022 - 387 1972. [illegible]dom Industries India Pvt. Ltd. : Tel : [illegible] 5560. ▲ S K International : Tel : 022 - [illegible] ▲ Systematics : Tel : 022 - 407 3300. [illegible]ft Data Products Pvt. Ltd. : Tel : [illegible] 7327. ▲ Summation Electronics [illegible] Ltd. : Tel : 022 - 768 3797. ▲ The [illegible]er People : Tel : 022 - 822 0920. ▲ Triune [illegible]ng : Tel : 022 - 387 3436. ★ Compushop [illegible]D) Pvt. Ltd. : Tel : 022 - 3828981. [illegible]ritech Power Systems Ltd. : Tel : [illegible] 8651. ★ Kay Impex Pvt. Ltd. : Tel : [illegible] 4628. PUNE : ▲ Atson Sales : Tel : [illegible] 7927. ▲ Computer Byte Infotech [illegible] : Tel : 0212 - 35 5981. ▲ Insat Lynx : [illegible] 45 1521. ▲ Microline : Tel : 0212 - [illegible] ▲ Westind Intergrated Systems [illegible] : Tel : 0212 - 62 1730. INDORE : [illegible]ware Automations : Tel : 0731 - 53 9714. [illegible]rvices : Tel : 0731 - 43 0194.

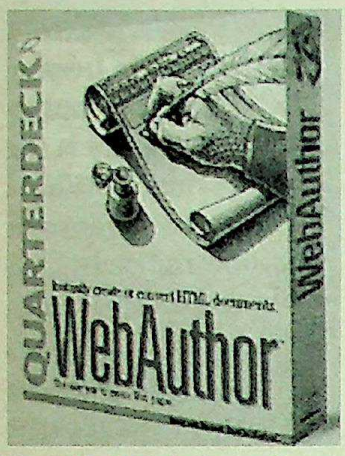
Hewlett-Packard (India) Ltd., Paharpur Business Centre, 21, Nehru Place, New Delhi-110 019.

★HP Reseller — HP NetServer, HP Vectra, HP OmniBook ▲ HP Registered Reseller HP LaserJet, HP DeskJet, HP ScanJet, HP DesignJet.

CC-0.In Public Domain. Panini Kanya Maha Vidyalaya Collection.

Mail Boxes HP-153-98

Digitized by Arya Samaj Foundation Chennai and eGangotri



Tools like WebAuthor and Corel WebDesigner are popular among Web page creators, whether amateur or professional

IWare Connect Internet access software for NetWare LANs. **Price:** Rs 39,000 **Vendor:** Unison Computer Systems **RQS#** 71949

Internet & Enterprise Encryption Software (RSA) Public key encryption system to encrypt and decrypt disks/individual files. **Price:** NA **Vendor:** Trans-Tel Communications **RQS#** 71950

Internet Chameleon Internet browser from Netmanage. Supports 26 utilities. **Price:** Rs 5,000 **Vendor:** Gebbs India Ltd **RQS#** 71951

Internet Suite Comprehensive Internet access tool. Features include e-mail, Web browser, newsgroups etc. **Price:** Rs 2,990 **Vendor:** Unison Computer Systems **RQS#** 71952

Kron Internet Server Internet server offering security and protection on Internet access. Creates Web sites. **Price:** Rs 250,000 **Vendor:** Triumph Research & Holdings Pvt Ltd **RQS#** 71953

Netscape Commerce Servers WWW server for conducting electronic commerce over Internet and intranets. **Price:** Rs 46,950 **Vendor:** Wipro Ltd **RQS#** 71954

Netscape Communications Servers WWW server software for publishing hypermedia documents on Internet and intranet. **Price:** Rs 13,950 **Vendor:** Wipro Ltd **RQS#** 71955

Netscape Mail Servers Client server messaging system for exchange of information over Internet and intranets. **Price:** Rs 46,950 **Vendor:** Wipro Ltd **RQS#** 71956

Netscape Navigator Internet client with integrated Web browsing, e-mail and news reader capabilities. **Price:** Rs 3,950 **Vendor:** Wipro Ltd **RQS#** 71957

Netscape News Servers Server software for creating secure public and private newsgroups on Internet and intranets. **Price:** Rs 46,950 **Vendor:** Wipro Ltd **RQS#** 71958

Netscape Proxy Servers Server software designed to improve performance and security of communications user. **Price:** Rs 46,950 **Vendor:** Wipro Ltd **RQS#** 71959

NetWare Web Server Transforms NetWare 4.1 server into a Web Server. Bundles WordPerfect, Internet Publisher and Netscape Navigator. **Price:** Rs 43,780 **Vendor:** Kunhar Peripherals Pvt Ltd **RQS#** 71960

Quarterdeck Mosaic Comprehensive Web browser. Contains a graphical FTP program and Telnet. **Price:** Rs 1,550 **Vendor:** Unison Computer Systems **RQS#** 71961

WebAuthor Integrated add-on to MS Word 6.0 for Windows. Lets you create or convert HTML documents for the Web. **Price:** Rs 3,590 **Vendor:** Unison Computer Systems **RQS#** 71962

WebCompass Adds the power of Internet search engines such as Yahoo and Infoseek to conduct thorough searches. **Price:** Rs 6,100 **Vendor:** Unison Computer Systems **RQS#** 71963

WebServer Helps in setting up a Web site or to create a virtual Internet within your premises. **Price:** Rs 8,990 **Vendor:** Unison Computer Systems **RQS#** 71964

WebStar Internet WWW server. **Price:** Rs 9,990 **Vendor:** Unison Computer Systems **RQS#** 71965

WebTalk It lets you use your PC just like a phone. **Price:** Rs 3,790 **Vendor:** Unison Computer Systems **RQS#** 71966

SOFTWARE
MULTIMEDIA

MULTIMEDIA

3D Studio MAX Graphics package for creating high-resolution 3D models, rendering and animation. **Price:** Rs 60,000 **Vendor:** HOPE **RQS#** 71967

Adobe Premiere 4.2 Video editing package with graphics and special effects. **Price:** Rs 28,950 **Vendor:** Wipro Ltd **RQS#** 71968

Animation And Graphics Pack Set of graphics programs, utilities and cliparts. Includes Graphic Workshop, Iconvert and Cshow. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71969

Asymetrix 3D/FX Creates rendered 3D images, animation and effects. **Price:** Rs 6,900 **Vendor:** Data Systems **RQS#** 71970

Audio Media Suite Pro - SGI Complete on-line, non-linear digital video editing software on Indy and Indigo systems. **Price:** NA **Vendor:** Tata Elxsi **RQS#** 71971

Author Ware 3.0 An authoring environment for creating and publishing interactive information. **Price:** Rs 189,950 **Vendor:** Wipro Ltd **RQS#** 71972

Autodesk 3D Studio 4.0 DOS based 3D animation software. **Price:** Rs 32,000 **Vendor:** CAG Station **RQS#** 71973

Avid Media Suite Pro 4.0 Allows desktop non-linear digital video post production with MSP integrated graphics and animation. **Price:** NA **Vendor:** Tata Elxsi **RQS#** 71974

Avid Real Impact On-line non linear digital video editing software on TMC PC. **Price:** NA **Vendor:** Tata Elxsi **RQS#** 71975

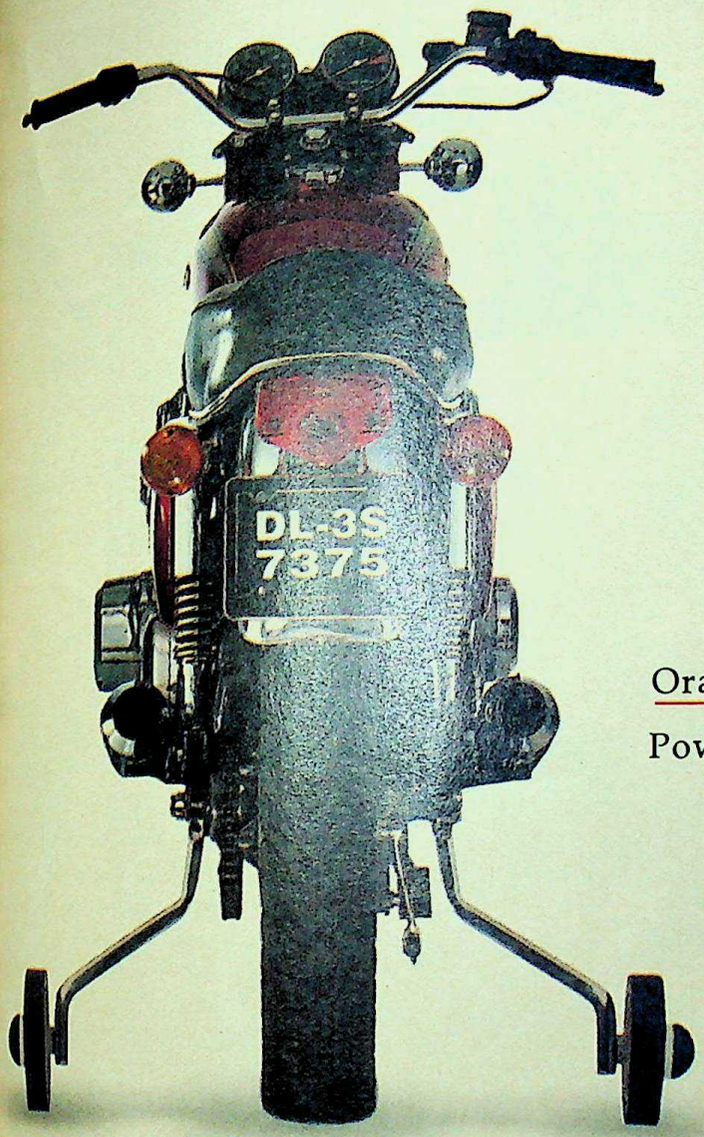
Cadmus UP 1.0 Graphics and animation utility pack for XDOS users. **Price:** Rs 500 **Vendor:** Nidhi Micro **RQS#** 71976

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

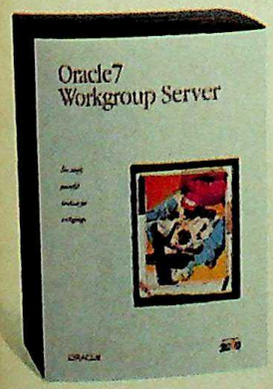
ORACLE®

Enabling the Information Age™



Oracle7 Workgroup Server.™

Powerful yet easy to handle.



Supported with a powerful array of graphical administration tools, Oracle7 Workgroup Server™ replaces SQL database complexity with point and click simplicity. And is pretuned and preconfigured for results right out of the box.

What's more, it is 100% compatible with all leading Windows® applications and tools. Add to these Oracle7's blistering speed and infinite scalability. And you have an affordable, simple yet powerful server for your workgroups.*

So, if you want an RDBMS that perfectly balances power with ease of use, just call us at any of the numbers given below.

Oracle Workgroup 2000™

Proof that you can.

*Available on the following platforms: Microsoft Windows NT, SCO Open Server, SCO Unixware, Novell Netware, Sun Solaris x86, HP-UX HP 9000 D & E series, Digital Alpha NT, IBM AIX RS/6000 43P, E-20, F-30, E-30.

For more information contact: New Delhi Phone 6475286/87 Fax 6427653, Mumbai Phone 2832601/4151/1550 Fax 2853005, Calcutta Phone 2407450 Fax 2404114, Bangalore Phone 5593930 Fax 5593932, Madras Phone 8279186, 8275191 Fax 8257258. **Or visit us on the Web at:** http://www.oracle.com/

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

KEYSKIN® KEYBOARD PROTECTOR

MANUFACTURED BY : COMPUCOVER EAST PVT. LTD. IN COLLABORATION WITH COMPUCOVER INC. U.S.A.

Now you can protect your computer keyboard and use it at the sametime with KeySkin® Keyboard Protector

24 Hrs. Protection

The KeySkin® Keyboard Protectors from CompuCover is a super thin protective cover for Desktop, Laptop & Notebook Computers, Cash Registers, Typewriters, Telephones, Cellular Phones, Remote Controls and any other electronic equipment with keys.

KeySkin® Keyboard Protectors Protect from damaging dust, spills, hair, staples and other contaminants. The protector is soft and flexible and form fits your Keyboard to preserve the feel.

How to Order :

It is important to determine the name and model number of your product before calling. This information is usually found on the bottom of the keyboard. This will ensure the best fit. Our experienced and courteous sales staff is waiting to assist you.

CompuCover East Pvt. Ltd.

D-15, Ranjit Nagar, Commercial Complex, New Delhi-110008, INDIA

Phone : 11-5704371 Fax : 11-5703371/5708963

DEALERS : AHMEDABAD : MEHTA BROTHERS Tel.: 447830 • **BANGALORE** : ANKITA ENTERPRISES Tel. : 6057296628, SHREYA LASERTEK Tel. : 3389529 • **BARODA** : JINAL SYSTEM Tel. : 313895/339491 • **BOMBAY** : K.K. ENTERPRISES Tel. : 5123, SURYA ENTERPRISES Tel. : 3782211/3751257 • **COCHIN** : GATEWAY SYSTEMS Tel. : 361704 • **COIMBATORE** : AL SYSTEMS Tel. : 2525, • **DELHI** : C.A.M.S. Tel. : 5704471/5704371 • **FARIDABAD** : HICOMP SOFTWARE Tel. : 276326 • **HYDERABAD** : TMC SERVICES P. LTD. Tel. : 240765 • **JAM NAGAR** : TELECOM INDIA Tel. : 71833/62711 • **JODHPUR** : S.K. ENTERPRISES Tel. : 35674, • **LUCKNOW** : COMPUTER SALES AG. Tel. : 234195/270010, 'N' PORUS INFOTEK Tel. : 218332 • **MADRAS** : RELIABLE ENTERPRISES Tel. : 562448, VERSATILE MARKETING Tel. : 568818 • **MYSORE** : R & L ENTERPRISES Tel. : 36604 • **NAGPUR** : MAYUR COMPUTERS Tel. : 636868/645054, Tel. : 535127 • **RAJKOT** : MIHIR COMPUTERS Tel. : 46668/43631 • **SURAT** : A-ONE COMPUTERS Tel. :

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...a 4.0 Multimedia and presentation tool, with a 32-bit graphics engine, 3D charting, text-handling etc. **Price:** Rs 19,500 **Vendor:** Softek **RQS#** 71977

...D Power Pak Contains multimedia utilities for CD-ROM. **Price:** Rs 4,500 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 71978

...00 Animation FLIC Classic Collection Includes 100 animation sequences, FLIC and FLI files. **Price:** Rs 1,499 **Vendor:** Databank Systems **RQS#** 71979

...Animation FLIC Kit Includes programs created using AutoDesk Animator Pro. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71980

...Animation Studio Collection of programs for animation professionals. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71981

...Animation Wonder Kit Incorporates seven animation enhancers to create and improve animation. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 71982

...Dr Bert's Tutor Excellent drawing program from Dr Bert's series. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71983

...Morphing Magic Tool for simulating morphing effect. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71984

...Multimedia Madness Collection of multimedia software **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71985

...Multimedia Tool Kit A collection of multimedia tools. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71986

...Music Heaven Collection Includes music clips and sound tracks. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71987

...PC Speaker Music Maker Lets you generate music with the PC speaker without any additional hardware or cards. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 71988

...SoundBlaster Collection Software collection to make use of audio cards. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 71989

...Spectacular Animations Includes 3D objects, acid warp, cloud dinosaur etc **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 71990

...Windows Graphics Magic Collection Package full of graphics and animation. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 71991

...Orchestrator Plus MIDI sequencer with multitrack audio recorder and effects processor. **Price:** Rs 13,990 **Vendor:** Databank Systems **RQS#** 71992

...Sound Gallery A collection of digitally recorded sounds on CD-ROM. **Price:** Rs 8,900 **Vendor:** Databank Systems **RQS#** 71993

...Video Producer It lets you assemble and edit audio and video clips. **Price:** Rs 11,900 **Vendor:** Databank Systems **RQS#** 71994

...Reality Ver.1.2 Morphing and warping system. **Price:** Rs 11,000 **Vendor:** Blue Information Technology Ltd **RQS#** 71995

...Video Graphics Indian language interface which can be used with 3D Studio, Topaz Animation Pro etc. **Price:** Rs 10,000 **Vendor:** C-DAC **RQS#** 71996

...Author 7.0 Visual cross platform authoring tool used in developing multimedia apps. **Price:** Rs 2,00,000 **Vendor:** Tata Elxsi **RQS#** 71997

...PowerVMP Character generator. **Price:** Rs 220,000 **Vendor:** Benchmark Microsystems Pvt Ltd **RQS#** 71998

...Provides post production environment for digital imagery. **Price:** $55,000 **Vendor:** Blue Information Technology Ltd **RQS#** 71999

...Wave 3D 4 3D animation systems for Windows. **Price:** Rs 39,500..99,500 **Vendor:** CAG Station **RQS#** 72000

...Music Gallery Includes orchestrated classical and rock music performances. **Price:** Rs 9,500 **Vendor:** Databank Systems **RQS#** 72001

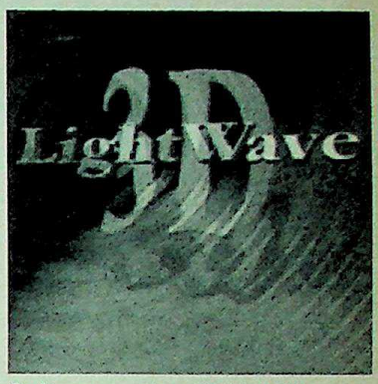
...media Toolbook 4 A multimedia authoring tool with integrated hypermedia text, graphics, animation etc. **Price:** Rs 49,900 **Vendor:** Databank Systems **RQS#** 72002

...Media Director 4.0 An authoring tool for multimedia production. **Price:** Rs 48,950 **Vendor:** Wipro Ltd **RQS#** 72003

...media Extreme 3D Tool for designing multimedia presentations, 3D modelling, and animation. **Price:** NA **Vendor:** Wipro Ltd **RQS#** 72004

...Paint 1.1 Desktop digital video painter which allows the user to paint on video frames in layers. **Price:** NA **Vendor:** Tata Elxsi **RQS#** 72005

...Trace 1 Multimedia tracking and archival software in Windows environment. **Price:** Rs 200,000 (4 users); Rs 25,000 (every additional user) **Vendor:** Ampersand Software Applicatons **RQS#** 72006



Software such as 3D LightWave packs the punch of high-end photorealistic 3D animation engines on workstations

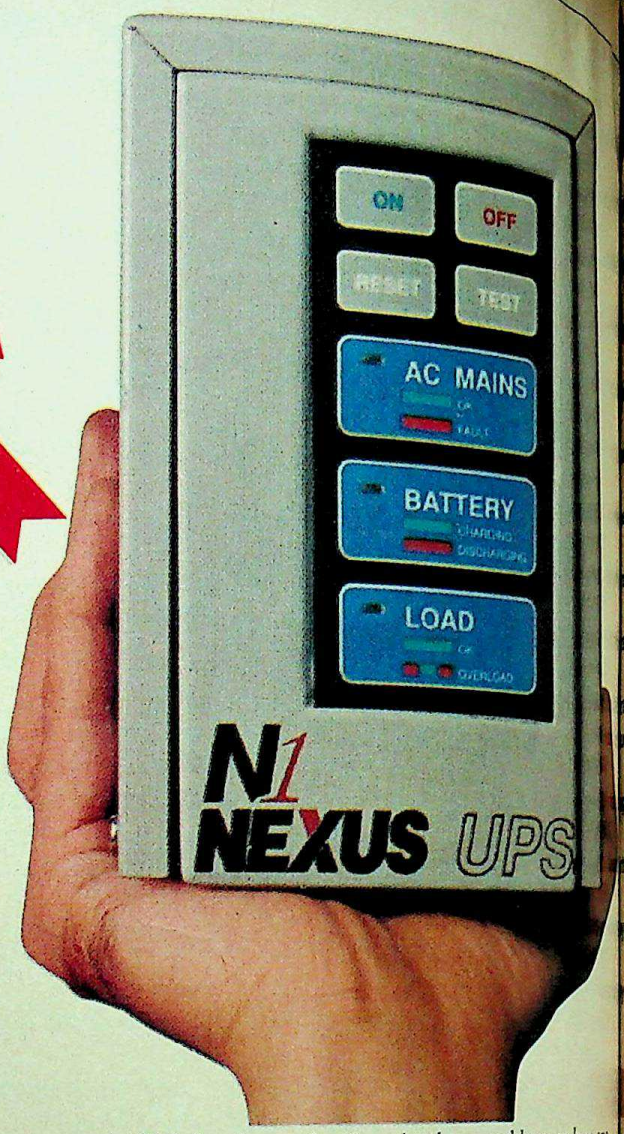
SOFTWARE
MULTIMEDIA

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

India's smallest UPS

PC QUEST
USER'S CHOICE
BEST QUALITY



A UPS for those who thought they would never buy one.

Nexus, India's smallest UPS has been recognised as the best quality new-generation UPS. Our customers have chosen Nexus as the best quality UPS in India. You could not expect anything less from Guard.

Nexus is a UPS System designed specifically for personal computers. Nexus provides comprehensive protection to your computer from power failures, voltage fluctuation, spikes, surges and line noise.

Designed with your desk in mind

Only 4 inches wide and 6 inches high Nexus, India's smallest UPS can sit right next to your PC without cluttering your workspace. Advanced technology has allowed us to shrink the UPS to this unbelievably compact size.

Easy to install

Unlike other UPS systems, there is no complicated installation procedure. Simply unpack Nexus and plug it in. All the controls and indicators are on a smart panel in the front.

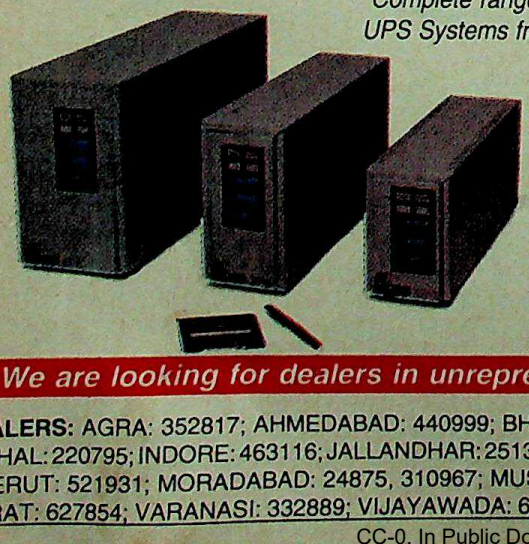
Nexus provides greater reliability and more features at a lower cost. With Nexus every computer can afford full UPS protection.

Available in five models to support and safeguard all computers from a single PC to a large LAN fileserver.

What are you waiting for. Call, write or fax us for your very own Nexus today.

- Wide input range of 165-275 VAC.
- Unrivalled 92% efficiency.
- Reliable MOSFET inverter.
- Electronic overload protection — short-circuit proof.
- Phased loop locked to AC mains for synchronised transfers.
- Built in maintenance-free batteries.
- Built-in spike suppressor and voltage regulator.
- Feather-touch controls.
- Range of five models.

Complete range of On-line and Offline UPS Systems from 100VA to 4000 KVA



Manufactured by

GUARD
ELECTRONIC SYSTEMS PVT. LTD.

S-60 F.I.E.E., OKHLA INDUSTRIAL AREA, PHASE- II, NEW DELHI-110 020
TELEPHONES: 684 9337, 684 9338, 684 9341, FAX: 91-11-68
BRANCH: S.C.O. NO. 161 FIRST FLOOR, SECTOR 37C, CHANDIGARH
TELEPHONE: 694401 FAX: 91-17

We are looking for dealers in unrepresented areas

DEALERS: AGRA: 352817; AHMEDABAD: 440999; BHILWARA: 25101; CHANDIGARH: 680660; DEHRA DUN: 29217; GUWAHATI: 520585; GWA
IMPHAL: 220795; INDORE: 463116; JALLANDHAR: 251363; JHANSI: 440950; JODHPUR: 30037; KANPUR: 542679; LUDHIANA: 406293, 608930; MAD
MEERUT: 521931; MORADABAD: 24875, 310967; MUSSOORIE: 631542; NAGPUR: 47131; PATNA: 655185; RANCHI: 203861; RAJKOT: 41283;
SURAT: 627854; VARANASI: 332889; VIJAYAWADA: 67826.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Multimedia Productivity Pack Software suite that lets you record, play and edit MIDI and WAV files **Price:** Rs 13,900 **Vendor:** Databank Systems **RQS#** 72007

Multimedia Toolbook Tool for multimedia training courses **Price:** Rs 59,900 **Vendor:** Databank Systems **RQS#** 72008

Multimedia Toolbook 3 Creates multimedia presentations on your PC. Incorporates graphics, video and sound. **Price:** Rs 38,000 **Vendor:** Crescent Software Solutions **RQS#** 72009

Open GL Powerful software interface for graphics hardware. **Price:** Rs 40,000 **Vendor:** CDAC **RQS#** 72010

Razor Pro & Speed Razor NLE Non linear video editing software. **Price:** Rs 40,000..85,000 **Vendor:** CAG Station **RQS#** 72011

Razor Professional Allows editing and compositing broadcast quality images on PC. **Price:** Rs 40,000 **Vendor:** Silicon Holdings & Finance Pvt Ltd **RQS#** 72012

Red Razor-Mach III Digital video editing and composition package. **Price:** Rs 60,000 **Vendor:** Silicon Holdings & Finance Pvt Ltd **RQS#** 72013

Media Forge Multimedia authoring software on Windows. **Price:** NA **Vendor:** Tata Elxsi **RQS#** 72014

Studio Pro 1.75 3D animation, modelling, and rendering software. **Price:** Rs 40,000 **Vendor:** Blue Information Technology Ltd **RQS#** 72015

Vision 3D 4.0 3D application for Mac. **Price:** NA **Vendor:** Tata Elxsi **RQS#** 72016

Studio Pro 1.7 BLITZ 3D modelling animation and special effects software. **Price:** NA **Vendor:** Tata Elxsi **RQS#** 72017

Card 2.5 Authoring tool for development of multimedia and custom applications. **Price:** Rs 21,500 **Vendor:** Blue Information Technology Ltd **RQS#** 72018

Walkthrough Pro 2.0 3D visualisation program for spatial design with real-time 3D rendering. **Price:** Rs 13,100 **Vendor:** Blue Information Technology Ltd **RQS#** 72019

MIDI Orchestrator Plus A multitrack MIDI recording application. **Price:** Rs 10,200 **Vendor:** Databank Systems **RQS#** 72020

Sequencer Plus MIDI editing and sequencing package. **Price:** Rs 11,900 **Vendor:** Databank Systems **RQS#** 72021

NETWORKING

Router NR-2 Software router for seamless interconnection of LANs. **Price:** Rs 9,500 **Vendor:** Bellwether Technologies Pvt Ltd **RQS#** 72022

Cheyenne ARCserve Enterprise backup solution for various OSs and RDBMSs. **Price:** Rs 49,000(25 users) **Vendor:** Microland **RQS#** 72023

LAN Mananger LAN management utility. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 72024

Express Bridge Provides seamless connectivity between remote Ethernet LANs. **Price:** Rs 20,000..30,000 **Vendor:** Multitech Software Systems India **RQS#** 72025

LANDesk Management Suite 2.0 LAN management software. **Price:** Rs 18,750 **Vendor:** Priya International Ltd **RQS#** 72026

Mail E-mail for networks. Runs under DOS and Windows. **Price:** Rs 7,500 **Vendor:** Blue Chip Computers **RQS#** 72027

Shadow Provides backup and mirroring strategy. **Price:** Rs 35,000 **Vendor:** IT Secure **RQS#** 72028

Lite 1.1 Helps in easy file transfer between two remote PCs. **Price:** Rs 1,195 **Vendor:** Softplus Computer Services **RQS#** 72029

WareWise 2.0 Tools for managing networks from small single site LANs to globally distributed enterprises. **Price:** Rs 349,801 **Vendor:** Onward Novell Software **RQS#** 72030

3Com AsyncGateway Allows sharing of serial port devices such as modems, satellite links etc. between LAN users. **Price:** Rs 21,100..26,500 **Vendor:** Multitech Software Systems India **RQS#** 72031

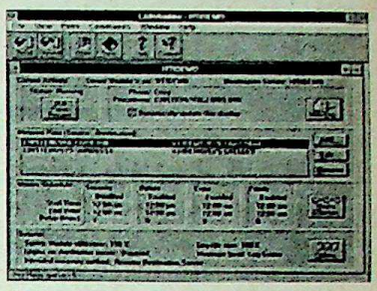
Price: Rs 30,000 **Vendor:** VXL Instruments **RQS#** 72032

Link PC-to-PC connection utility, used to transfer data from one computer to another through serial or parallel ports. **Price:** Rs 1995 **Vendor:** Nashsoft Systems **RQS#** 72033

Audit Audits file access, network usage and activity. **Price:** Rs 10,000 **Vendor:** Pioneer Micro System **RQS#** 72034

Menu Regulates network usage and access to DOS prompt and local drives. **Price:** Rs 8,000 **Vendor:** Pioneer Micro System **RQS#** 72035

Watch Monitoring tool to log all prompt commands. Disables access to system prompt, floppy and even local drive if required. **Price:** Rs 27,500 **Vendor:** Pyramid Business Systems **RQS#** 72036



Customizable network systems like LANshadow and Vinca StandyServer offer reliable server mirroring and backup

SOFTWARE NETWORKING

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

If only I were in Bill Gates' shoes

If only God were on Internet

If only laptops came free

If only networks could look after themselves

Compex.
Only from Apcom.

Because hubs and Ethernet cards still need care.

Compex hubs and Ethernet cards are brought to you by Apcom Advantage.

Apcom Advantage is a division of APCOM, India's largest technically qualified computer products distributor.

apcom ADVANTAGE

APCOM COMPUTERS LIMITED
8, Industrial Estate, Perungudi, Madras - 600 096. Tel: 044-4925438
Fax: 044-4926630. Chamiers Road: Ph: 457760, 458164 Fax: 434765

COMPEX

Enquiries solicited for channel p

Channel Partners: AHMEDABAD: • C.P.S. Peripherals Ph: 78567, Fax: 78136 • Ronak Enterprises Ph: 404615, Fax: 4
BANGALORE: • Computer Factory (I) Pvt. Ltd. Ph: 5566485, Fax: 5566485 • Digitech India Ph: 6631202, Fax: 6631202 BOMBAY: • Inter
Systems Pvt. Ltd. Ph: 8218742, Fax 8223647 CALCUTTA: • Leading Edge Technology & Consultant (P) Ltd. Ph: 4728435, Fax: 473946
Automation (P) Ltd. Ph: 292684 COCHIN: • Gentek Computer Services Pvt. Ltd. Ph: 350648 COIMBATORE: • Computer Factory
Ph: 438408, Fax: 432227 DELHI: • Micro Systems Enterprises Ph: 4622054, Fax: 4644297 • O.A. Compserve Pvt. Ltd. Ph: 5735697, Fax:
GOA: • Sparrow Micro Electronics Pvt. Ltd. Ph: 555804, Fax: 783409 HYDERABAD: • S M G Computers Pvt. Ltd. Ph: 313423 MADRAS:
Instruments Ph: 844090 • Sri Lakshmi System Products Ph: 8282272, Fax: 8281441 VADODARA: • Nexgen Ph: 300678, Fax:
VISAKHAPATNAM: • Coastal Trade Links Ph: 546838 Fax: 560270 **All the above enterprises have their own network of**

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Remote Aull-featured remote control and remote access software. **Price:** Rs 186,354 (100 Nodes) **Vendor:** Pyramid Business Systems **RQS#** 72037

ware MultiProtocol Router 3 Provides concurrent routing of TCP/IP, IPX, SNA, and AppleTalk. **Price:** Rs 43,780 **Vendor:** Kunhar Peripherals Pvt Ltd **RQS#** 72038

ware Connect 2 Communication server with inbound and outbound network access. **Price:** Rs 21,780 **Vendor:** Kunhar Peripherals Pvt Ltd **RQS#** 72039

rk Anywhere Allows mobile clients to access network resources when they are not connected to the network. **Price:** NA **Vendor:** Frontier Information Technologies Ltd, **RQS#** 72040

top Networks Network software that provides server-level III fault tolerance. **Price:** Rs 45,000..55,000 **Vendor:** Stride Systems **RQS#** 72041

ote PC Anywhere for DOS 5.0 Remote computing and communications software, which allows you to access your office PC when you're not in the office. **Price:** Rs 5,500 **Vendor:** Sonata Software Ltd **RQS#** 72042

ote PCAnywhere 2.0 Remote PC-to-PC computing solution for remote control, file transfer and general communications. **Price:** Rs 5,690 **Vendor:** Infosys Technologies Ltd **RQS#** 72043

ET for Windows 2.0 Networking solution that lets you install applications over other TCP/IP stacks. **Price:** Rs 14,690 **Vendor:** Priya International Ltd **RQS#** 72044

ack Data Recovery for NetWare Collection of NLMs used to recover from a data disaster. **Price:** Rs 22,000 **Vendor:** Stride Systems **RQS#** 72045

FS Pro 2.0 (TCP/IP and NFS) Network client software. **Price:** Rs 16,000 **Vendor:** Tata Consultancy Services **RQS#** 72046

CP Network Software for DOS TCP/IP software enabling PCs to share files and printers. **Price:** Rs 11,430 **Vendor:** Priya International Ltd **RQS#** 72047

SO 1.0 Decision-making tool for enterprise network. **Price:** Rs 40,000 **Vendor:** Tata Consultancy Services **RQS#** 72048

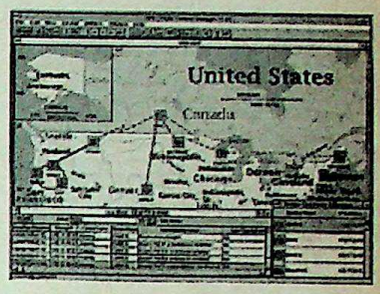
ndle Frye Utilities for Networks Has powerful tools for network administration, accessing related data, and exploring technical details. **Price:** Rs 19,058 **Vendor:** Pioneer Network Solutions Pvt Ltd **RQS#** 72049

te Remote access system for LANs. **Price:** Rs 7,900 **Vendor:** Byzan Systems Pvt Ltd **RQS#** 72050

ctrum Element Manager Network management system for all Cabletron products and SNMP compliant devices. **Price:** Rs 217,406 **Vendor:** PCS Industries Ltd **RQS#** 72051

nection Transport System 1.0 Allows organizations to interconnect distributed databases to transport data between them. **Price:** Rs 11,000 **Vendor:** Winsoft Technologies (I) Pvt Ltd **RQS#** 72052

ST FullPress Prepress interface server for managing digital publishing network operations. **Price:** $800..$25,000 **Vendor:** Blue Information Technology Ltd **RQS#** 72053



Network management systems like Spectrum Element Manager provide flexible control over remote network devices

OFFICE APPS

t Advance Mailer Utility for creating mailing labels. **Price:** Rs 250 **Vendor:** Kohli Software **RQS#** 72054

Flowcharter 4.0 Program for creating flowcharts and diagrams. **Price:** Rs 19,500 **Vendor:** Softek **RQS#** 72055

el Barcode label printing software to print user defined labels. **Price:** Rs 7000 **Vendor:** Square-D Electricals **RQS#** 72056

t Works Enterprise wide software for keeping track of hardware and software assets. **Price:** Rs 196,162 (100 Nodes) **Vendor:** Pyramid Business Systems **RQS#** 72057

Complete system for document archiving that includes hardware, software and accessories. **Price:** Rs 850,000 **Vendor:** Crescent Computers Pvt Ltd **RQS#** 72058

3.0 Software for automation of HRD department. **Price:** Rs 46,000 **Vendor:** Hexaware Infosystems Ltd **RQS#** 72059

ints Desk 2.0 Complaints handling and analysis system. **Price:** Rs 9,995 **Vendor:** Softplus Computer Services **RQS#** 72060

Flow 2 Tool for creating flowcharts, diagrams, schematics etc. **Price:** Rs 4,500 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 72061

PerfectOffice Combines WordPerfect, QuattroPro, Presentations, Infocentral, Envoy and Groupwise. **Price:** Rs 8,000 **Vendor:** Wipro Ltd **RQS#** 72062

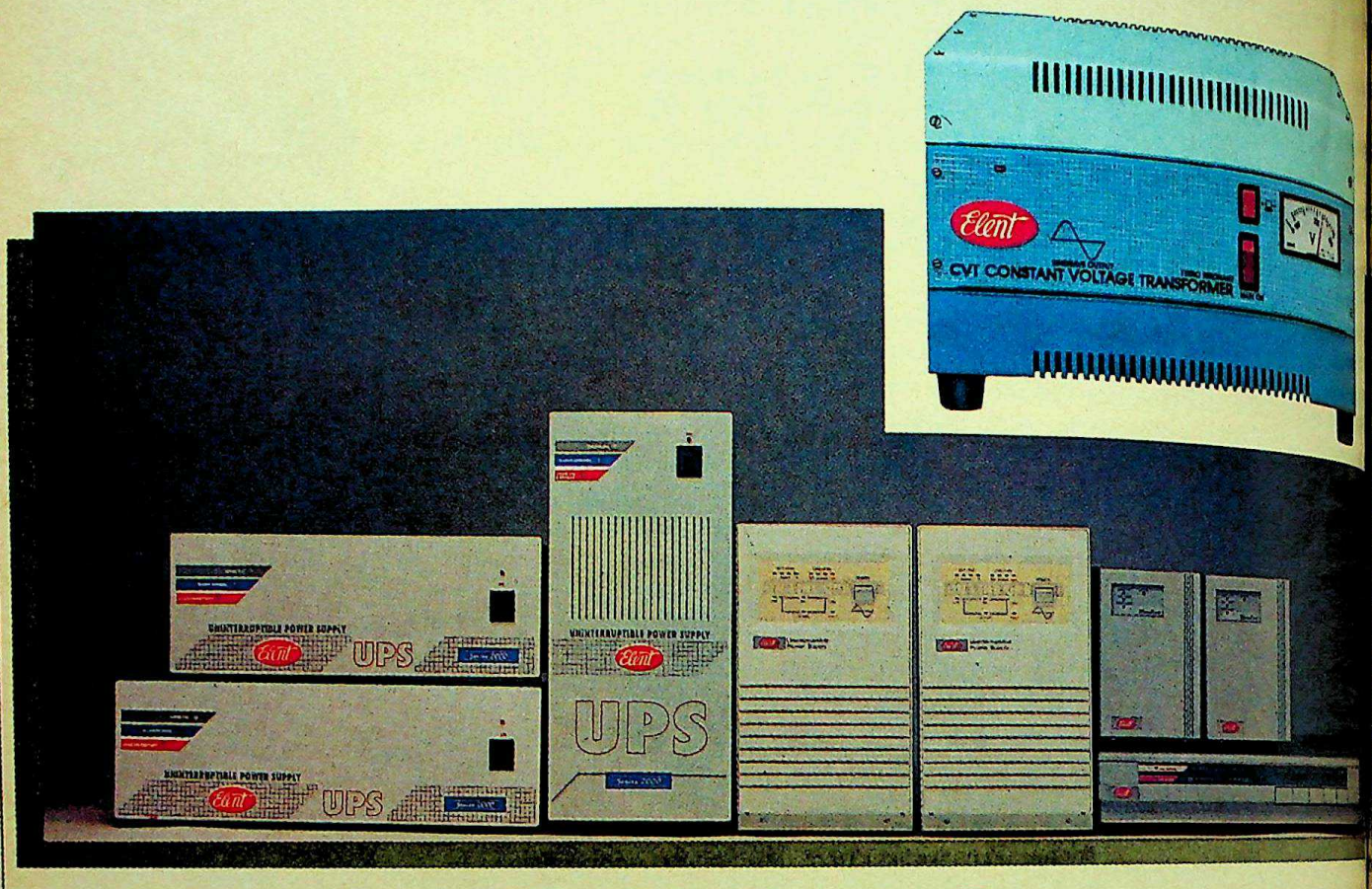
Automanager Workflow Solution for retrieving drawings and documents. **Price:** NA **Vendor:** Digital Electronics Ltd **RQS#** 72063

siness Presentation Manager Pack of business presentation software. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72064

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

If the state of main-line power is messing with your happiness...



Rely on Elent.

While computing don't let the state of main-line power dictate your state of mind. Let Elent's state-of-the-art range of Power Conditioning equipment -

HIGHEST QUALITY Elent

UPS & CVTs in a wide ra... take care of all the has... and let you carry on ... worry-free. Get Elent on ... side and ensure your happi...

ELECTRONIC ENTERPRISES

67 DSIDC Complex, Okhla Ph. I, New Delhi 20 Ph.: 6810515, 6811774, 6818608 Fax : 91-11-6818608 Grams : STABE...

Authorized Dealers:

NORTH •Chandigarh: 702395, 704138 •Faridabad: 289367, 289902,218696 •Hissar:76930, 79416 •Karnal:252769 •Shimla: 78438,204030 204026 •Palampur (H.P.):31059 •Jammu: 44773, 548854, 43547, 546805, 533154 •Srinagar:72528,52056 •Ambala:643122 •Amritsar:55470 548852 •Bhatinda:210701 •Jalandhar:227124,252975 •Ludhiana:31856,400765,475568,471402 •Patiala:71849 •Agra:52580,54760,51313 •Allahabad:609192 •Bareilly:78585, 473033, 478707, 470838 •Dehradun:28016 •Ghaziabad:717131, 714617,718612 •Gorakhpur:333598, 3... •Kanpur:319056,319916,210130,210993 •Moradabad:317769 •Muzaffarnagar:405123 •Saharanpur:3440 •Varanasi:57212,57254, 352717,35...

CENTRAL •Bhopal:555955,553030 •Gwalior:325965 •Indore:432902, 550649, 554080,494499,400455 •Jabalpur:20086, 26395 •Jhansi:44... 442207 •Raipur:535817, 533882 •Ratlam:20088, 31088 •Sagar:22234 •Satna: 3625,2097 •Ajmer:32988 •Alwar:71330 •Bhilwara:26216 •Chittorgarh: 42468, 40672 •Jaipur:366862, 369818 •Jodhpur:27958 •Kota:20952 •Udaipur :413311

EAST •Guwahati: 31250, 540845 •Jamshedpur: 428381 •Patna: 230007 •Ranchi : 205795 •Imphal: 310783 •Shillong:223949, 222847, 22... 221817 •Calcutta:298295, 297175 •Darjeeling:2040 •Siliguri:430146 •Berhampur (Orissa): 203187

WEST •Goa: 223712,228644 •Ahmedabad:6638575,460883 •Rajkot:42955 •Jalgaon: 28470 •Vadodara: 338039,341364, 557542 •Chandrapur: 32101, 32662 •Akola:40781, 28710.•Amravati:74105 •Bombay: 5554830, 5555218 •Nagpur: 526862 •Nasik:579510 •Pune: 3... 346690 •Kopargaon: 23206, 22168 •Ulhasnagar: 550401, 551402

SOUTH •Belgaum:32482 •Madras: 8256893, 8277729, 458664, 453512, 512808, 5230195 •Madurai:31615, 35533 •Pondicherry:36444, 3... •Salem:448271 •Tirupur:28790, •Trichy: 48400 •Port Blair (Andaman):30873 •Hyderabad:216850 •Vijaywada:72217,77248 •Visakhapatnam:547131, 53555 •Bangalore: 5591843, 8396561,5530791,5531841 •Mangalore:458852 •Cochin:368461 •Kollam: 204... 204115 •Coimbatore:231736,232087

For Dealers in Delhi, please contact our Office

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ss 100 Business Letters A collection of 100 business letters, forms and templates. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72065

...wcharter A program for designing flowcharts. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72066

...tter Writer Helps to improve letter writing skills. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 72067

...ail Manager Includes mailing kit with lots of options **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72068

...ervice Tracking & Management System Set of programs that help in service tracking and management. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72069

...readsheets Collection Collection of spreadsheet programs. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72070

...xt Editor's Collections Collection of programs for text editing and processing. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72071

...xt Processing Kit Set of utilities for text processing. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72072

...p 6.0 Data-entry software for entry/verification of large volumes of data. **Price:** Rs 7,500 **Vendor:** Dataflex Systems **RQS#** 72073

...ent Retrieval System Designed to classify, store and retrieve documents, journals and articles. **Price:** Rs 2,500 **Vendor:** Creative Computer Services **RQS#** 72074

...LOOK Offers quick searching and can store huge documents including dictionaries, addresses etc. **Price:** Rs 501 **Vendor:** Hanuman Prasad Biharilal **RQS#** 72075

Full text management system that instantly retrieves, stores and distributes information. **Price:** Rs ...5,000 **Vendor:** Blue Information Technology Ltd **RQS#** 72076

...or LAN (5-250 Users) Multiuser version of EDMS. **Price:** NA **Vendor:** Blue Information Technology ...td **RQS#** 72077

...Electronic Document Management System Run Helps in retrieval of information distributed by ...EDMS to remote non-networked sites. **Price:** Rs 1,500 **Vendor:** Blue Information Technology Ltd ...RQS# 72078

...n-the-Box Executive Business presentation software. **Price:** Rs 5,950 **Vendor:** Alpine Automation ...RQS# 72079

...cel 7.0 Microsoft's spreadsheet package. **Price:** $330 **Vendor:** Ultimedia System Associates **RQS#** ...72080

...ice 4.2 Standard Office suite—word processor, spreadsheet and presentation software. **Price:** Rs ...13,350 **Vendor:** Sonata Software Ltd **RQS#** 72081

...ice 95 Complete office suite for Windows 95. **Price:** Rs 18,010 **Vendor:** Sonata Software Ltd **RQS#** ...72082

...ice Professional 4.2 Office suite which includes a wordprocessor, spreadsheet, database and ...presentation software. **Price:** Rs 23,460 **Vendor:** Sonata Software Ltd **RQS#** 72083

...Editor 2.0 Powerful ASCII text editor. **Price:** Rs 3,150 **Vendor:** Infosys **RQS#** 72084

Enables document filing based on hierarchial storage. **Price:** Rs 25,000..45,000 **Vendor:** Robocom ...Business Systems Pvt Ltd **RQS#** 72085

...Strength 1.0 Software dealing in customer database maintenance. **Price:** Rs 800 **Vendor:** AS ...Software **RQS#** 72086

...Worx 1.1 Office automation package for data storage and retrieval. **Price:** Rs 1,940 **Vendor:** ...Scriptus Computer Services **RQS#** 72087

...per Ver.2.0 Stores and retrieves information, turns data into knowledge, creates database of both ...ext and graphics. **Price:** Rs 15,000 **Vendor:** Sonata Software Ltd **RQS#** 72088

...Provides documentation, mail merging, label printing etc. **Price:** Rs 1,500 **Vendor:** Divine ...Computers **RQS#** 72089

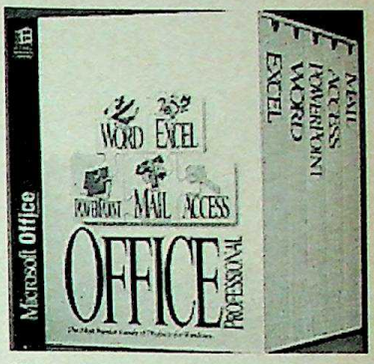
...Portfolio management package. **Price:** Rs 5,000 **Vendor:** Futech Computers **RQS#** 72090

...e Personnel Information Decision support system for personnel managers. **Price:** Rs ...15,000..22,000 **Vendor:** Decision Software India **RQS#** 72091

...Pro 6.0 Spreadsheet with notebook-like interface, intelligent graphs and formula composer. **Price:** ...NA **Vendor:** Wipro Ltd **RQS#** 72092

...ware Information delivery software. **Price:** Rs 300,000 **Vendor:** Tata Consultancy Services **RQS#** ...72093

...Has more than 50 features including signatures and photographs. **Price:** Rs 18,000..25,000 **Vendor:** Robocom Business Systems Pvt Ltd **RQS#** 72094



Though Microsoft Office leads the suites, there's competition from Lotus SmartSuite and, to a lesser extent, Corel PerfectOffice

SOFTWARE
OFFICE APPS

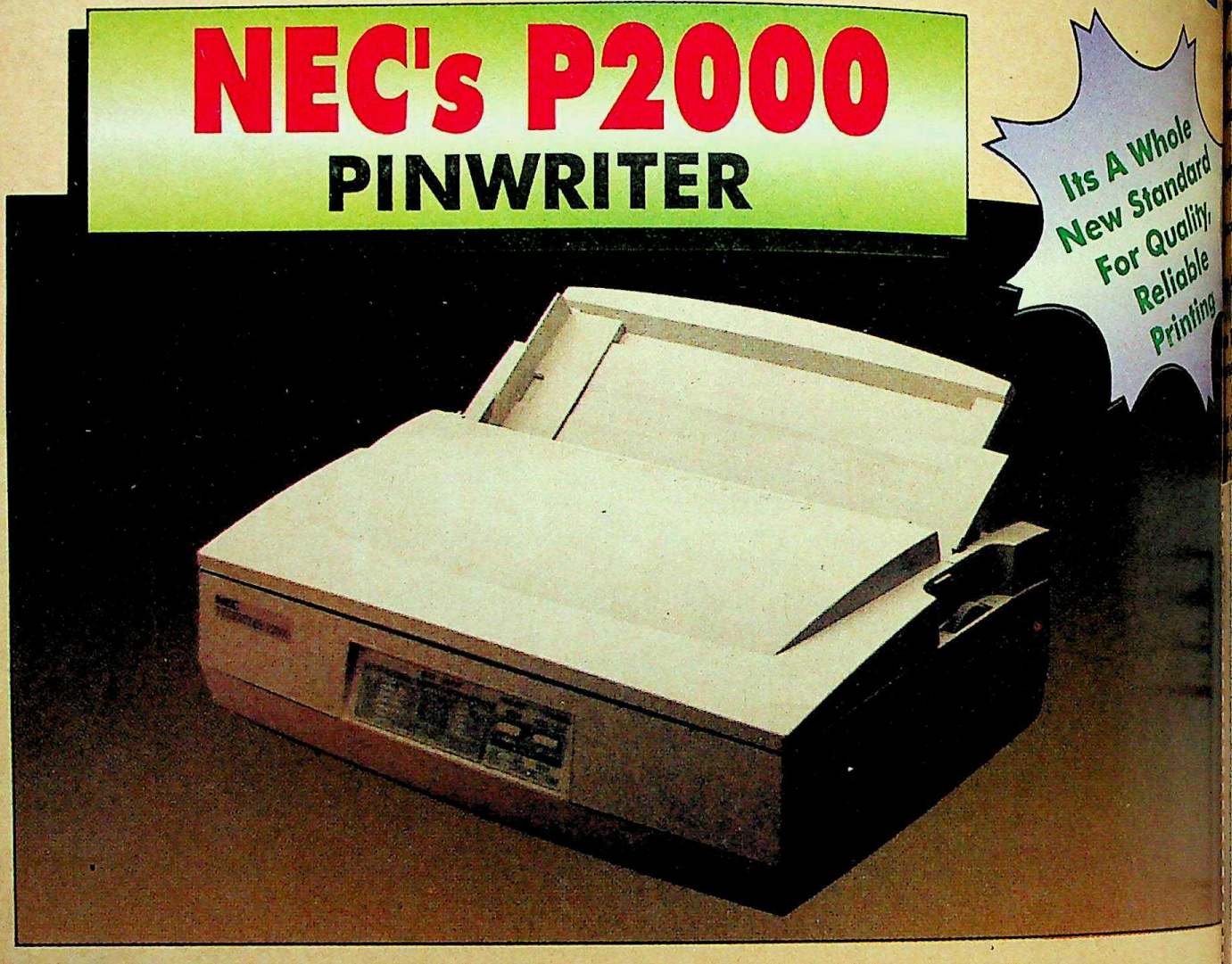
CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

YOU COULDN'T GET BETTER VALUE FOR MONEY !

NEC

NEC's P2000 PINWRITER



24 PIN QUALITY AT THE PRICE OF 9 PIN DMP AND MORE

Key Features

- High Print Speed
- 24-Pin Staggered Print Head
- "Plug & Play" For Windows' 95
- Small Footprint
- Font/Pitch Selection Control Panel
- 19 Character Sets
- Multiple Forms Handling
- Paper Parking & Tear-Off
- One Year Warranty
- 200 CPS @ HS Draft 12
- 80 Columns [360 DPI Resolution]
- Interface : IEEE-1284 Nibble Mode
- Lightweight : Real Desktop Printer
- Low Noise, Sturdy Performance
- PS Font Selection
- Push/Pull Tractor/Bottom Feed
- Cut Sheet Feeder Option
- Country-wide Service Support

NEC PINWRITER P2000 24-PIN Dot Matrix Printer

DIGITAL WORLD INDIA LIMITED

AUTHORISED DISTRIBUTORS :

DIGITAL WORLD INDIA LIMITED

97, Marol Co-op. Industrial Estate, Andheri-Kurla Road,
Andheri (East) Mumbai - 400 059.
Tel. : 838 1922 / 838 5686 / 834 4600 Fax : 838 1074

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

dsheet Kit Set of spreadsheet programs and utilities. **Price:** Rs 499 **Vendor:** Databank Systems RQS# 72095

are Workflow automation tool. **Price:** Rs 250,000..350,000 **Vendor:** Data System Services Pvt Ltd RQS# 72096

ss Planned! 1.1 Aid for the projects managers that combines the power of Windows and PERT/CPM chniques. **Price:** Rs 14,950 **Vendor:** Tata Consultancy Services **RQS#** 72097

ak Project Manager Tracks your projects with precision. **Price:** Rs 31,500 **Vendor:** Alpine Automation **RQS#** 72098

o Electronic document management system. **Price:** Rs 30,000..80,000 **Vendor:** Data System Services Pvt Ltd **RQS#** 72099

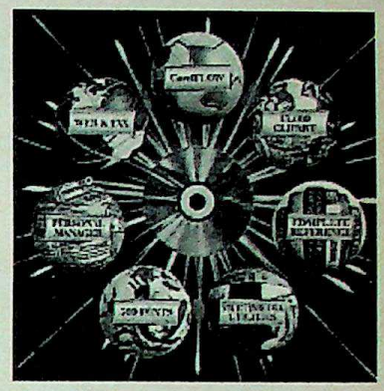
.0 Creates diagrams to convey ideas and plan processes to increase productivity. **Price:** Rs 8,410 **Vendor:** Datapro Infoworld Ltd **RQS#** 72100

Technical 4.0 **Price:** Rs 20,000 **Vendor:** Datapro Infoworld Ltd **RQS#** 72101

Project management system featuring time analysis, resource and cost. **Price:** Rs 49,500 **Vendor:** Schancliff Computer Solutions **RQS#** 72102

Comprehensive office management software. **Price:** Rs 5,000 **Vendor:** JJ Compusoft **RQS#** 72103

Utility for mail merging and data management. **Price:** Rs 5,000 **Vendor:** JJ Compusoft **RQS#** 72104



Beyond the standard suites are the other innovative combinations of software accessories, such as Corel's Office Companion

Rapid Reply Card **DIGITAL WORLD INDIA LTD**

☐ I want a live experience of **NEC P2000**.Please contact me at Telephone/Fax No.:

☐ **YES ! I WANT MY 24-PIN NEC PINWRITER FOR THE PRICE OF A 9-PIN PRINTER**

☐ NEC *PinWriter* **P2000** 24-Pin Dot Matrix Printer

Key Features:

- ☑ 24-Pin Staggered Print Head
- ☑ 200 cps @12 CPI
- ☑ 80 Columns [360 DPI Resolution]
- ☑ Plug & Play for Windows '95.
- ☑ Small Footprint
- ☑ Push / Pull Tractor & Bottom Feed
- ☑ Font/ Pitch Selection Control Panel
- ☑ Low Noise, Sturdy Performance
- ☑ PS Fonts Selection
- ☑ 19 Character Sets
- ☑ Multiple Forms Handling
- ☑ Lightweight : Real Desktop Printer

OFFER PRICE : Rs. 11,500 /-

☑ TICK THE REQUIRED BOX AND MAIL COUPON WITH CHEQUE/ D.D. DRAWN IN FAVOUR OF **DIGITAL WORLD INDIA LTD.**

❖ PRICES ARE ALL INCLUSIVE WITH FREE DELIVERY. ALL **NEC *PinWriters*** ARE COVERED BY ONE YEAR WARRANTY.

❖ INTRODUCTORY OFFER VALID UPTO **15th Aug '96 ONLY.**

[PAYMENTS MUST BE CLEARED BEFORE 15th Aug '96 TO AVAIL OF OFFER]

NAME : _____

ADDRESS: _____

_____ PINCODE: _____

C.S.T Billing Available

NEC

INTRODUCTORY OFFER !!!

gn 2.0 Windows compatible astrology package based on Chinese system. **Price:** Rs 1,500 **Vendor:** Computer Services **RQS#** 72117

e Sign 2.0 Astrological software which offers predictions based on Chinese astrology. **Price:** NA **Vendor:** Computer Services **RQS#** 72118

Act 1.0 Provides complete text of companies act and gist of other related case laws. **Price:** Rs 27,500 **Vendor:** Alp Hi-Tech Information **RQS#** 72119

ter Palmistry Software for astrologers. Available in all Indian languages. **Price:** 500; $500 **Vendor:** Shreeji Computer Services **RQS#** 72120

D Creator 2 Records CD-ROM, CD-Audio, Video-CDs and mixed mode disks. **Price:** Rs 11,000 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 72121

D Office Companion It contains business graphics, Internet browser, fax, PIM, electronic references and multimedia utilities. **Price:** Rs 7,500 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 72122

ve Disk optimisation software for SCO UNIX; improves hard disk performance 2-5 times. **Price:** Rs 13,000 **Vendor:** VXL Instruments **RQS#** 72123

Travel System Allows users to access tariffs of 9,000 hotels, cruises, car-hires, tours etc and can make online reservation of the same. **Price:** NA **Vendor:** Bound Travel Corporation **RQS#** 72124

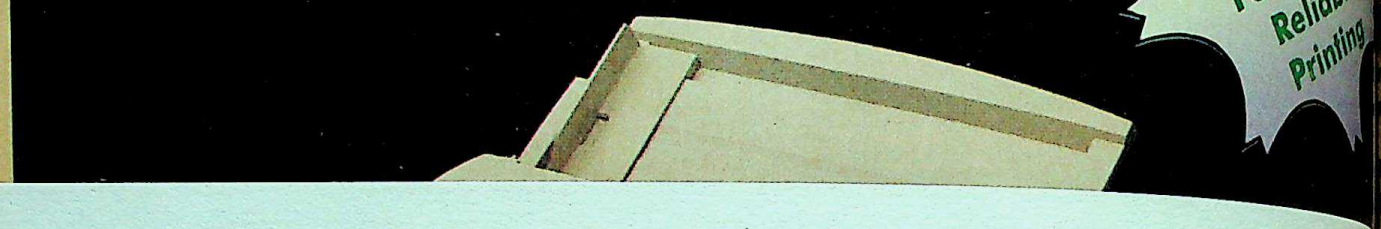
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YOU COULDN'T GET BETTER VALUE FOR MONEY !

NEC

NEC's P2000 PINWRITER



Its A Whole New Standard For Quality, Reliable Printing

AFFIX POSTAGE HERE

To,

DIGITAL WORLD INDIA LIMITED
97, MAROL CO-OP. INDL. ESTATE
ANDHERI - KURLA ROAD,
ANDHERI (E),
BOMBAY - 400 059.

- 24-Pin Staggered Print Head
- "Plug & Play" For Windows' 95
- Small Footprint
- Font/Pitch Selection Control Panel
- 19 Character Sets
- Multiple Forms Handling
- Paper Parking & Tear-Off
- One Year Warranty

- 80 Columns [360 DPI Resolution]
- Interface : IEEE-1284 Nibble Mode
- Lightweight : Real Desktop Printer
- Low Noise, Sturdy Performance
- PS Font Selection
- Push/Pull Tractor/Bottom Feed
- Cut Sheet Feeder Option
- Country-wide Service Support

NEC PINWRITER P2000 24-PIN Dot Matrix Printer

DIGITAL WORLD INDIA LIMITED

AUTHORISED DISTRIBUTORS :

DIGITAL WORLD INDIA LIMITED

97, Marol Co-op. Industrial Estate, Andheri-Kurla Road,
Andheri (East) Mumbai - 400 059.
Tel. : 838 1922 / 838 5686 / 834 4600 Fax : 838 1074

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

sheet Kit Set of spreadsheet programs and utilities. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72095

re Workflow automation tool. **Price:** Rs 250,000..350,000 **Vendor:** Data System Services Pvt Ltd **RQS#** 72096

s Planned! 1.1 Aid for the projects managers that combines the power of Windows and PERT/CPM techniques. **Price:** Rs 14,950 **Vendor:** Tata Consultancy Services **RQS#** 72097

k Project Manager Tracks your projects with precision. **Price:** Rs 31,500 **Vendor:** Alpine Automation **RQS#** 72098

o Electronic document management system. **Price:** Rs 30,000..80,000 **Vendor:** Data System Services Pvt Ltd **RQS#** 72099

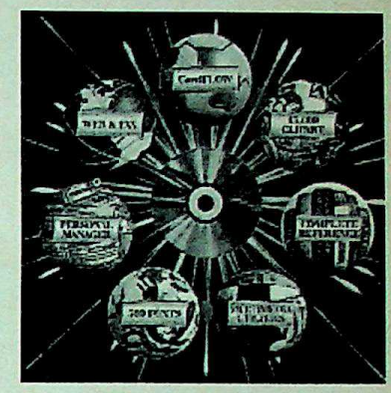
.0 Creates diagrams to convey ideas and plan processes to increase productivity. **Price:** Rs 8,410 **Vendor:** Datapro Infoworld Ltd **RQS#** 72100

Technical 4.0 **Price:** Rs 20,000 **Vendor:** Datapro Infoworld Ltd **RQS#** 72101

a Project management system featuring time analysis, resource and cost. **Price:** Rs 49,500 **Vendor:** Schancliff Computer Solutions **RQS#** 72102

Comprehensive office management software. **Price:** Rs 5,000 **Vendor:** JJ Compusoft **RQS#** 72103

k Utility for mail merging and data management. **Price:** Rs 5,000 **Vendor:** JJ Compusoft **RQS#** 72104



Beyond the standard suites are the other innovative combinations of software accessories, such as Corel's Office Companion

OTHERS

VIGYAN 1.0 Software based on Samudrik Sastra. Useful for astrologers, palmists. **Price:** Rs 500..500,000 **Vendor:** Shreenathji Electronics **RQS#** 72105

n 1.0 Samudrik Sastra-based software. **Price:** Rs 500..125,000 **Vendor:** Shreeji Computer Services **RQS#** 72106

Kundoobe 1.0 Software based on numerology and Samudrik Sastra. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72107

Copy System Useful for developers to provide copy protection for DOS-based applications. **Price:** Rs 5,000 **Vendor:** AK Computers **RQS#** 72108

logy Pack Collection of shareware on astrology, biorhythms and palmistry. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72109

GIS 3.0 Desktop mapping solution. **Price:** Rs 42,500 **Vendor:** Infotech Enterprises Ltd **RQS#** 72110

Desk View View all standard formats like MS-Word, MS-Excel, AutoCAD etc. **Price:** Rs 7,000 **Vendor:** I-HOPE **RQS#** 72111

Vidya Vakta 1.0 Software based on Samudrik Sastra. Useful in palmistry, face reading, signature analysis and numerology. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72112

T Tool for finding out intrinsic skills of people. **Price:** Rs 5,940 **Vendor:** Wizz O Tech **RQS#** 72113

Language 1.0 Caters specially to the interpretation of body language. Also offers personality analysis. **Price:** Rs 500..375,000 **Vendor:** Shreenathji Electronics **RQS#** 72114

Punch 2.0 Provides offline programming facilities for CNC machines. **Price:** Rs 45,000 **Vendor:** Processware Systems Pvt Ltd **RQS#** 72115

Cold 3.0 Allows compact storage of high-volume formatted computer output. **Price:** NA **Vendor:** Yethi Software (India) Ltd **RQS#** 72116

gn 2.0 Windows compatible astrology package based on Chinese system. **Price:** Rs 1,500 **Vendor:** Computer Services **RQS#** 72117

Sign 2.0 Astrological software which offers predictions based on Chinese astrology. **Price:** NA **Vendor:** Computer Services **RQS#** 72118

Act 1.0 Provides complete text of companies act and gist of other related case laws. **Price:** Rs 27,500 **Vendor:** Alp Hi-Tech Information **RQS#** 72119

Palmistry Software for astrologers. Available in all Indian languages. **Price:** 500; $500 **Vendor:** Shreeji Computer Services **RQS#** 72120

Creator 2 Records CD-ROM, CD-Audio, Video-CDs and mixed mode disks. **Price:** Rs 11,000 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 72121

Office Companion It contains business graphics, Internet browser, fax, PIM, electronic references and multimedia utilities. **Price:** Rs 7,500 **Vendor:** Multi Software (India) Pvt Ltd **RQS#** 72122

e Disk optimisation software for SCO UNIX; improves hard disk performance 2-5 times. **Price:** Rs 19,000 **Vendor:** VXL Instruments **RQS#** 72123

Travel System Allows users to access tariffs of 9,000 hotels, cruises, car-hires, tours etc and can make online reservation of the same. **Price:** NA **Vendor:** Bound Travel Corporation **RQS#** 72124

SOFTWARE
OTHER

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

IT'S NOT IF, IT'S WHEN

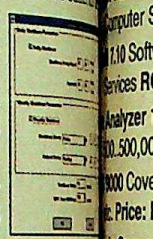
High-performance servers need high-performance power protection

APC Smart-UPS® provide clean, reliable power for systems like Compaq server

Power problems are the single largest [cause] of network data loss. Which is why [high-performance] computers like Compaq's [ProLiant] rely on APC. In fact, APC UPSs [protect] networks worldwide than any other [brand].

For a fraction of the cost of a [Compaq], you can have complete protection from [power] and data-damaging surges, sags and [spikes]. Smart-UPS employ the industry's most [advanced], reliable Line-interactive design and [Smart] brownout correction, which extends [battery] life.

During an extended power loss, [PowerChute] *plus* software automatically conducts a [graceful] system shutdown *before* the UPS's batteries are exhausted and, when power returns, reboots the system.



PowerChute *plus* also makes UPS management easy. You can schedule daily or weekly UPS self-tests, server shutdowns/reboots. From your workstation you can also manually conduct UPS tests, configure settings, shut down/reboot servers and [monitor] power problems. New FlexEvents allow [you to] preset responses to problems, including [notifying] users." Many network management [systems], Compaq's Insight Manager allow you to [access] valuable UPS information such as [temperature], load and runtime from UPSs on your [network].

Find out today how Line-interactive [Smart-UPS] and PowerChute plus management [software] deliver the power protection demanded by [high-] performance systems like Compaq [servers].

FREE Information on Smart-UPS

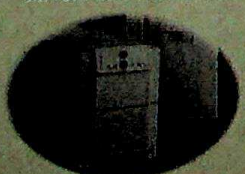
Mail or fax to Dept. [illegible]
Fax: (+91)44-434-[illegible]

Name _____
Title _____
Company _____
Address _____ State _____ Postal
City _____
Phone ( ) _____

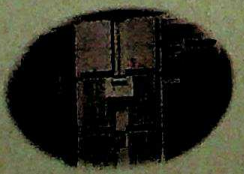
ProtectNet™
High-performance telephone and dataline surge suppressors.

Back-UPS® & Back-UPS® PRO
UPS for PC and advanced workstations

Smart-UPS® & PowerChute *plus*
Manageable UPS for servers and networks



Matrix-UPS™ & Accessories
Modular UPS for client/server datacenters



APC
AMERICAN POWER CONVERSION

THE WORLD'S MOST RELIABLE POWER [illegible]
5A CENTURY PLAZA, 560 ANNA SALAI, [illegible]
TEL: (+91)44-433-1124 / FAX: (+91)44-[illegible]
NEW! WEB POWERPAGES WWW.[illegible]
REQUEST INFORMATION VIA INTERNET: [illegible]

© Copyright 1998, APC. All Rights Reserved. Trademarks identified are the property of APC. Other marks used are the property of their respective owners.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Jumper Software Contains 500 shareware and freeware for various apps. **Price:** Rs 1,299 **Vendor:** Databank Systems **RQS#** 72125

rology Pack Set of astrological programs. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72126

nomy Pictures Contains a pack of astronomical pictures. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72127

mobile Mania Collection of automobile pictures including some antique ones. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72128

Cataloging System A set of programs to build product catalogues on disk. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72129

ology Tracker Comprehensive utility for genealogists. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 72130

th Watch A collection of health appraisal forms. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72131

ate Demo Collections Demonstration programs with pleasing graphics, animations and sounds. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72132

7.0 Software for checking daily predictions based on a person's date of birth. **Price:** Rs 1,000 **ndor:** Computer Services **RQS#** 72133

96 Diskette with updated information to assist you in buying a computer. **Price:** Rs 95 **Vendor:** YB Computer Info-Line **RQS#** 72134

1.5 CD Windows based numerology software with multimedia features. **Price:** Rs 950 **Vendor:** mputer Services **RQS#** 72135

7.10 Software for personality analysis based on numerology. **Price:** Rs 4,500 **Vendor:** Computer rvices **RQS#** 72136

Analyzer 1.0 Offers guidelines on dream science for psychiatrists, psychologists etc. **Price:** Rs ..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72137

000 Covers sample manual, procedures manual, work instructions form, calibration for ISO9000 c. **Price:** Rs 17,500..30,000 **Vendor:** EIAMS **RQS#** 72138

Corporate Directory Ideal for marketing organizations as a telemarketing tool. Also generates ling lists. **Price:** Rs 10,000..15,000 **Vendor:** CERC **RQS#** 72139

Products Finder 1.0 It contains information on all kinds of electronics products. Upgrades free. **ice:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72140

Numerology Ver.2.1 For day-to-day predictions as well as race, lottery numbers, share market **Price:** Rs 1,800 **Vendor:** Computer Masters **RQS#** 72141

Stores direct tax laws, acts, rules, circulars, case laws. Gives tax saving ideas, and tax culations. **Price:** Rs 15,000 **Vendor:** Srushti Compsoft Pvt Ltd **RQS#** 72142

der 1.0 Software for film industry based on simple objective questions,images, sketches etc. **ice:** Rs 500..250,000 **Vendor:** Shreeji Computer Services **RQS#** 72143

ink 4.4 Real-time, multi-platform application and technology enabler. **Price:** Rs 250,000 **Vendor:** tus International **RQS#** 72144

er 2.10 Software for checking astrologically suitable gems based on the subject's date and time rth. **Price:** Rs 4,500 **Vendor:** Computer Services **RQS#** 72145

a 1.0 Samudrik Sastra based software for palmistry. Includes personality analysis, predictions **e:** Price: Rs 500..5,000 **Vendor:** Shreeji Computer Services **RQS#** 72146

er 1.0 Software for signature analysis. **Price:** Rs 750..750,000 **Vendor:** Shreeji Computer rvices **RQS#** 72147

merologist 1.7 Numerology package that predicts personality, profession, health, lucky dates etc. **ice:** Rs 700 **Vendor:** Headline Computers **RQS#** 72148

dows Information database package giving corporate financial information on industries and folio researches. **Price:** Rs 100,000 **Vendor:** DART **RQS#** 72149

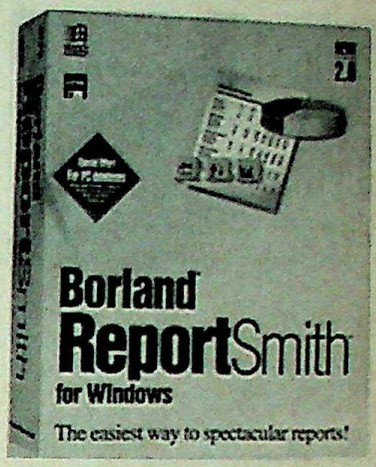
rsonality analysis software offering information on character and traits of a person. **Price:** NA **ndor:** Computer Services **RQS#** 72150

Decision Support System Collection of Indian corporate houses. **Price:** Rs 100,000 **Vendor:** rporate and Economic Research Centre **RQS#** 72151

Plus 1.0 Package for NRIs and financial investors. **Price:** Rs 500..50,000 **Vendor:** Shreeji mputer Services **RQS#** 72152

Lab Windows CVI (3.1) Useful for product presentation and analysis. **Price:** Rs 400,000 **ndor:** AIMIL Sales & Agencies **RQS#** 72153

1.0 Package with options for calculations, graphics, entertainment and varied typefonts. **Price:** 500 **Vendor:** Kanugovi Computer Centre **RQS#** 72154



Reporting is important enough in corporate information systems for there to be specialized reporting front-ends for database systems

SOFTWARE
OTHER

CC-0. Prof. Satya Vrat Shastri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

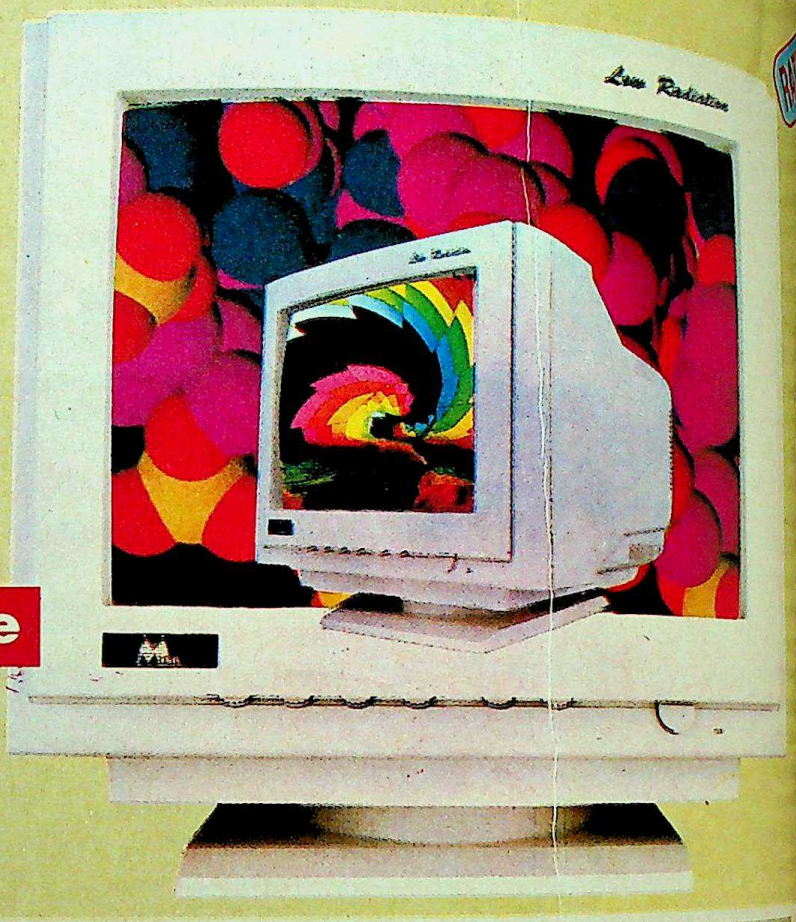
Better 10 years in the research lab than 5 minutes wasted on repair

SVGA COLOR MONITOR MODEL 1444 FS

FS

EPA POLLUTION PREVENTER

Price Rs. 11950/-
inclusive of octroi, local sale tax anywhere in India



We knew you'd agree

- Low Radiation
- 1024 x 768 Non Interlaced
- Full Screen Display
- Flicker Free Display
- Energy Efficient Display
- Super Contrast Screen
- Auto scan for Multi-Compatibility
- Ultra Fine DotPitch (0.28)
- Extra High Refresh Rate
- Dynamic Focus System
- Microprocessor Controlled
- Universal Power Supply

*** User's Choice Survey ' 95 PC Quest.**

NON - INTERLACED

PROFESSIONAL DISPLAY SYSTEM

Digi Sync

Mtek MICROTEK

Available at - **Delhi** - PULSE SYSTEMS - 6442360. CHALLANGER - 6435194. SABISA - 6418458. OMEGA 5728646 COMPUTER LINKS - 5592336 PA... J.D.COMMUNICATION - 2214755. EXPERT - 6466925. **Bombay** VESTRONICS - 3859276. VISUALAN - 3436111. SAMVIK. - 3857620 **Bangalore** - LINK - 3350389 Madras NATIONAL 8555564. S.S.S.SYS - 8240858. SUPREME - 848531. K.A SYSTEMS - 823266. **Ahemdabad** - MERGE - 6427099. **Allahabad** - MEGATECH - 644722. Agra - MITTAL - 25761. **Ahmednagar** - CITY COMPUTER **Ambala** - COMPUTER COMPONENT - 643285. **Aligarh** - AGGARWAL - 28854. **Amritsar** - R K. - 292926. **Aurangabad** - DEOGIRI - 534858. Bhopal - VENUS - 57824 NEURON - 75674. **Baroda** - MEDIATECH - 300423. **Belgaum** - INTECH - 26335. **Bhubhaneshwar** - ODC - 405980. **Bhillai** - ONIX - 357646. MOMAI - 381633. Coimbatore **Chandigarh** - IBM - 605839. GLOBAL SYSTEMS - 705163. **Chittorgarh** - COMPUTECH - 40035. **Cochin** - EXCEL - 316854. KOLUTHARA - 212425. Guwahati - DATAMATION **Dhanbad** - J.B.CONSULTANTS - 307113. **Dharamshala** - OMNI TECH - 22874. **Erode** - ZIGMA COMPUTER CORP. - 215664. **Faridabad** - CLIQUE - 363642. Indore - CENTRONIX BUSINESS - 331721. **Goa** - FOUNDATION-312177. **Ghaziabad** - TIMES - 754851. **Gorakhpur** - MICRODOT COMPUTERS - 340476 **Hubli** - LIBRA - 544986 Jabalpur - COMPUTER COMPUTER - 372993. C S INFOTECH - 514865. **Jamshedpur** - MICRO ELECTRONICS - 423481 **Jammu** - ACCESS COMP. -33488. BBC - 22795. Kanpur - COMPUTER - 30297. QUICK SERVE - 30037. **Jallandhar** - SYNDICATE - 227124. **Jhansi** - HARI COMPUTERS - 444507. **Kurukshetra** - COMP SHOPPE - 252769. Kotkapura - OASIS - AUTOMATION 312060. **Kota** - KOTA COMPUTERS - 22980 **Khanna** - WORLDWIDE - 22854. **Karnal** - ATROBHA - 251272. COMP WORLD - 24481. Moradabad - CREAM TRUST - 39361. **Lucknow** - SWYFTE - 210153. ACE DIGITAL 218409. RAM CHANDER & SONS - 280542. **Mandi** - DISHA - 42055. **Moga** - ETASI - 6424411. Noida - PARK NETWORK **Meerut** - HARDTRONIX - 640639. COMPUTER SHOPPE - 543221. DIGITECH - 564217. **Mussoorie** - INPUT - 631542. **Madurai** - AIMS - 656155. Panipat - PERIPHERALS - 6480954. **Nanded** - BUSINESS TO BUSINESS 35740. **Nagpur** - MAYUR - 535127. K.K. COMPUTERS - 526150. **Pune** - BLUE POINT POWER LINES - 44716. Raipur - COMP SPOT - 213153. **Rohtak** - COMPUTER MEDIA - 424361. Trichy - **Patiala** - NETWORK BUSINESS - 221432. **Patna** - PERIPHERAL ENGG - 227013. KONARK 655185. COMPUTER PLUS - 657787. **Shimla** - COMPUTER CARE - 424361. Trichy - COMPUTER SYS & SER - 315175. COMPUTER INDIA - 202020. **Shillong** - LIFELINE - 220280 **Saharanpur** - COMCON - 743440. **Surat** - SYSTEM CARE - 424361. Trichy - ASIAN COMP - 625231. **Secunderabad** - KOMPUSERVE - 849377. SAITRONICS - 843085. **Sangli** - VEETRAG - 75055. **Siliguri** - SILICON - 430332. **Surat** - SYSTEM CARE - 424361. Trichy - 760760. **Udaipur** - MUDRA - 527081. **Vishakhapatnam** - INNOVATIVE - 54508. CHIPCOM - 559538 **Varanasi** - EN AR EN COMPUTERS - 350379 M.S & COMPANY - 351533 355288 **Yamunagar** MICRO SOLUTIONS - 31256.

DEALERS ENQUIRIES WELCOME FROM UNREPRESENTED AREAS : - FAX TO : 011-5472907,5472659, 01792-33381,32710, 044-8556105 Parwanoo/Chandigarh 01792-33381,32710, 044-8556105, 080-6602143, 022-8392971

MICROTEK SERVICE CENTRES/DEPOTS: Delhi 011-5475365 Bombay 022-8392971 Bangalore 088-628176/660041 Madras 044-8556105

Incase of any difficulty please fax to 011-5472907, 5472659 (Head Office) 01792-33381,32710, 044-8556105, 080-6602143, 022-8392971

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Jyotish 1.0 Software for preparing horoscopes and predictions based on Indian astrology. **Price:** Rs 2,000 **Vendor:** Computer Services **RQS#** 72155

MapInfo 4.5 Windows-based desktop mapping system for presentation analysis and display of geographical information. **Price:** Rs 21,950 **Vendor:** Zyfax Sytems Pvt Ltd **RQS#** 72156

Oracle Professional 4 Data analysis software to access and analyze data throughout an organization using geography. **Price:** Rs 69,900 **Vendor:** Tata Elxsi **RQS#** 72157

Matrimonder Database application for matrimonial databanks. **Price:** Rs 50,000 **Vendor:** Computer Services **RQS#** 72158

Stock Technical analysis software which comes with 75 pre-programmed indicators and studies. **Price:** Rs 15,000 **Vendor:** Corporate and Economic Research Centre **RQS#** 72159

Fleet Monitoring Generates billss and analyzes reports for organizations with a large vehicle fleet. **Price:** Rs 45,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 72160

Pagan 1.0 Can relay alarm text from computers to pagers. **Price:** Rs 650,000. **Vendor:** Enexco Technologies India Ltd **RQS#** 72161

Shakti 1 Software for the film industry based on the Samudrik Sastra principles of face reading. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72162

Server 6.01 Captures incoming news from news agencies and provides utilities for news management. **Price:** Rs 16,950 **Vendor:** Impetus Computing Systems **RQS#** 72163

Quiz Soft 1.0 Objective-type question-based software for astrologers and numerologists. **Price:** Rs 500..50,000 **Vendor:** Shreeji Computer Services **RQS#** 72164

Image Prof. 6.0 Optical character recognition software. **Price:** Rs 40,000 **Vendor:** Sonata Software Ltd **RQS#** 72165

Vision ID Card System Digital imaging ID card design and production package. **Price:** Rs 30,000 **Vendor:** Pentafour Software Exports **RQS#** 72166

Personality 1.0 Software for personality analysis. Available in all Indian languages. **Price:** 500..$500,000 **Vendor:** Shreeji Computer Services **RQS#** 72167

Personality Analyzer 2.0 Useful for police departments, HRD, and personnel managers, employment exchanges and so on. **Price:** $500..5000 **Vendor:** Shreeji Computer Services **RQS#** 72168

UPSON II Interface between UPS and computer. Shuts down server in case of battery-low condition. **Price:** Rs 4,500..7,700 **Vendor:** Foresight Power Systems Ltd **RQS#** 72169

Sex 1.0 Menu driven astrology software to provide up-to-date information on sex of an unborn child. **Price:** Rs 2,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 72170

Color 1.0 Software based on the science of color. Helps in detecting mental attitude and brain powers. **Price:** 500..$500 **Vendor:** Shreeji Computer Services **RQS#** 72171

Vastu 1.0 Based on Ratna Vigyan. **Price:** Rs 100,000 **Vendor:** Shreenathji Electronics **RQS#** 72172

Data Select Optical character recognition software. **Price:** Rs 19,750 **Vendor:** Stride Systems **RQS#** 72173

Vastu Sastra 1.0 Software based on Samudrik Sastra and related areas. **Price:** Rs 500..500,000 **Vendor:** Shreenathji Electronics **RQS#** 72174

UPS Guard Maintains normal output voltage; indicates input power condition; automatically adjusts voltages between 150 V to 280 V; **Price:** Rs 1,200 **Vendor:** Tagore's Electronic Lab **RQS#** 72175

Brain 1.0 Software for brain and memory analysis. Useful for psychiatrists and psychologists. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72176

Match 7.10 Software for checking marriage compatibility based on Indian system of astrology. **Price:** Rs 2,000 **Vendor:** Computer Services **RQS#** 72177

Interest Pack Collection of utilities on family genealogy, travel, wisdom and jokes. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72178

Element Manager Powerful VET for all Cabletron products and SNMP compliant devices. **Price:** $17,406 **Vendor:** PCS Industries Ltd **RQS#** 72179

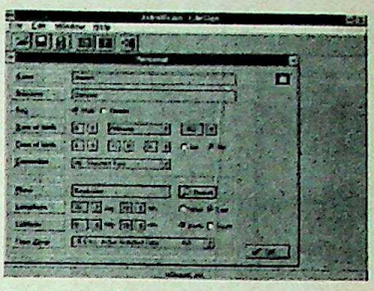
Muhurtha 2.10 Software for finding auspicious time (Muhurtha) based on Indian astrology. **Price:** Rs 2,950 **Vendor:** Computer Services **RQS#** 72180

Stock Maintains all stationary, accounting, issues, receipts, purchases, and consumption analysis in an organisation. **Price:** Rs 60,000 **Vendor:** Sysman Cornputers Pvt Ltd **RQS#** 72181

Yellow India Yellow Pages A database on Indian business houses. **Price:** Rs 2,500 **Vendor:** Super Media Ltd **RQS#** 72182

Swapan Vigyan 1.0 Software based on Svapan Vigyan for analysis of brains. Available in all Indian languages. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72183

Personnel Search Software data bank which helps in selecting personnel with ease. **Price:** Rs 3,500 **Vendor:** Shreeji Computer Services **RQS#** 72184



Programs for preparing horoscopes and astrological predictions remain ever popular, and not just in India

SOFTWARE
OTHER

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

FOR TOTAL PROTECTION

TRUST A COMMANDO

AJMER : 423453, 423542
ALLAHABAD : 608374, 600301
AMRITSAR : 548392
BHILAI : 355184
BHOPAL : 553185
CALCUTTA : 724865, 726733
CALICUT : 704171
CHANDIGARH : 40465
CUTTACK : 614292
DEHRADUN : 657119
DHANBAD : 302147
GHAZIABAD : 754851
GURGAON : 330378
GWALIOR : 322911
INDORE : 430194
JAIPUR : 601953, 565466
JALLANDHAR : 271872 / 3
JAMSHEDPUR : 426685
JODHPUR : 37586, 32585
KANPUR : 210130
KOTA : 421247
LUCKNOW : 218351, 218409
LUDHIANA : 456891
MEERUT : 540874, 540894, 642012
NOIDA : 8554656
PATNA : 651692
RAIPUR : 535070
RANCHI : 205306
SONEPAT : 40228
UDAIPUR : 526987
VARANASI : 351133, 355288

Because you need to protect the most critical part of your computing enironment: *your effort*. SAFEPOWER COMMANDO UPSs are being exceedingly recognized by their users in maintaining this trust. Isn't it time you too sought the Commando protection?

SAFEPOWER INTELLIGENT
OFF LINE RANGE
500VA, 1000VA, 1400VA

SAFEPOWER SLIMLINE
LINE INTERACTIVE RANGE
625VA

SAFEPOWER COMMANDO
LINE INTERACTIVE RANGE
280VA, 425VA, 650VA, 800VA

SAFEPOWER COMMANDO entry level 280 VA & 425 VA UPSs are upgradable to 650 VA to accommodate your enhanced power needs. The entire SAFEPOWER range comes loaded with features •150 V input voltage range •Long inbuilt battery back up • Power-fail warning & automatic shutdown with Safe Lite (optional)•Competent service team to provide the full level of the pre-announced service

SAFEPOWER IS ALSO AVAILABLE ACROSS ALL COUNTERS OF HCL FRONTLINE LTD.

RADIANT POWER SYSTEMS PRIVATE LIMITED
84, Khijrabad, New Friends Colony, New Delhi - 110065.Ph.: 6835523, 6919387, 6918908, 6911566.Fax: 6918908

All logos / trademarks appearing above are the property of their respective owners.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...nshi 1.0 Astrological package based on the Samudrik Sastra. Useful for astrologers and palmists. ...rice: Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72185

...yani 1.0 Software based on Samudrik Sastra, palmistry, face reading etc. **Price:** Rs 500..55,000 **Vendor:** Shreenathji Electronics **RQS#** 72186

...Based on vastu shastra. Available in all Indian languages. **Price:** Rs 500..50,000 **Vendor:** Shreeji Computer Services **RQS#** 72187

...**Maintenance** Tracks information of vehicles and stores registration details, fuel consumption etc. **Price:** Rs 5,000 **Vendor:** Syscon Computers Pvt Ltd **RQS#** 72188

...**Analyser 1.0** Helps in detecting personality. Useful for personnel departments, film industry etc. **Price:** Rs 500..500,000 **Vendor:** Shreenathji Electronics **RQS#** 72189

...row Software for annual forecast based on numerology. **Price:** Rs 2,000 **Vendor:** Computer Services **RQS#** 72190

PIM

...0 Personal information and time manager. **Price:** Rs 6,190 **Vendor:** Infosys Technologies Ltd **RQS#** 72191

...e 2.0 Personal information manager. **Price:** Rs 3,495 **Vendor:** Xpert Systems **RQS#** 72192

...'96 - 9999 A.D. PC-based appointment diary, with calculator, conversion tables and calendar. **Price:** Rs 499..599 **Vendor:** Unique Business Solutions **RQS#** 72193

...Utility with time manager, word processor and data manager. **Price:** Rs 1,500..8,000 **Vendor:** JJ Compusoft **RQS#** 72194

...**Reminder** Freeware birthday reminder program. **Price:** NA **Vendor:** Ultimedia System Associates **RQS#** 72195

...ant+ 1.0 Ideal for doctors. Includes appointments, certificates, reminders etc. **Price:** Rs 10,000 **Vendor:** CyberMed Solutions **RQS#** 72196

...96 Contact management system. **Price:** Rs 749..799 **Vendor:** Unique Business Solutions **RQS#** 72197

...System (C 96) System for managing contacts, generates phone and address books. **Price:** Rs ...000 **Vendor:** Landmark Software **RQS#** 72198

...**siness Executive Collection** Collection of programs for business executives and managers for handling day-to-day business activities and improving productivity. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72199

...**sktop Assistant** Collection of desktop aids including address librarian, noteware, desktop helper and more. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 72200

...**Little Realm Series** Comprehensive personal information manager. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72201

...**rsonal Finance Manager** Includes programs like Bank Expert, The Bill Drawer, Home Checkbook and more. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72202

...**rsonal Interest** A personal utility software. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72203

...**rsonal Organiser** Personal organiser. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72204

...Stores and manages company and personal information. **Price:** Rs 1,500 **Vendor:** Syscon Computers Pvt Ltd **RQS#** 72205

...Desk Personal information manager. **Price:** Rs 1,495..2,225 **Vendor:** Unique Business Solutions ...QS# 72206

...o Organizes your calender, phone book, projects, to-dos and all other information into a single ...werful system. **Price:** Rs 7,000 **Vendor:** Gebbs India Ltd **RQS#** 72207

...**Executive 1.1** Personal information manager with an address database, phone number diary, ...culator, calendar and mail merge. **Price:** Rs 2,500 **Vendor:** Creative Computer Services **RQS#** ...208

...**Desk 5.0** Personal information manager. **Price:** Rs 2,495 **Vendor:** Softplus Computer Services ...QS# 72209

...e Plus Has features such as personal account, payments, journals, appointments, follow-ups, ...ephone calls, things to do etc. **Price:** Rs 2,999 **Vendor:** Desk Computer Systems **RQS#** 72210

...'s Pack Collection of useful tools like notepad, appointment reminder and chequebook manager ...r executives and managers. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72211

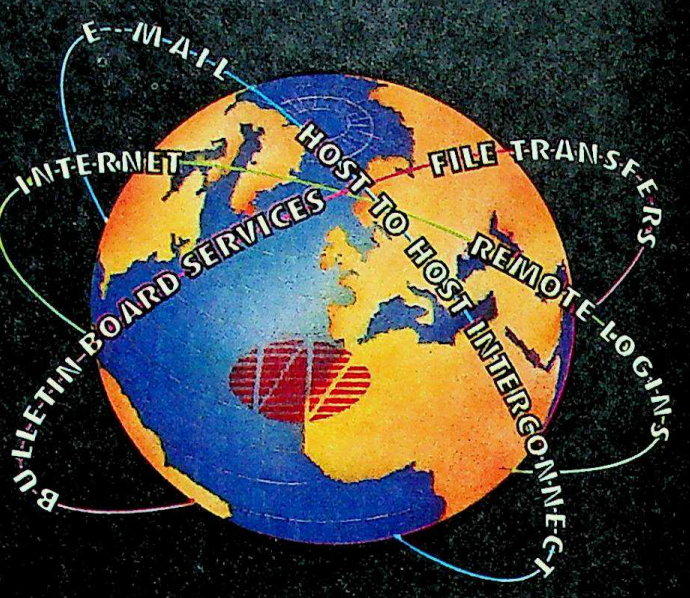
...**Contacts Manager** Personal information manager that maintains a database of meetings and ...ntact persons. **Price:** Rs 250 **Vendor:** Kohli Software **RQS#** 72212

...nizer 1.0 Personal information manager with six modules for report writing, time management ...d so on. **Price:** Rs 2,500 **Vendor:** Quill Publishers **RQS#** 72213

Personal information packages for Windows are an often underrated, but critical, application, especially for notebook users

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

CC-0. Vidya Sagar Foundation Chennai and eGangotri



AS IN LIFE, IN TECHNOLOGY TOO, IT PAYS TO MOVE IN THE RIGHT CIRCLES.

The information revolution has filtered into the bloodstream of Indian society.

Today, we at **Worldwide**, are trying to shape its future by manufacturing and marketing a wide range of MODEMS, ideally suited to Indian conditions.

Born from the marriage of **Worldwide's**, state-of-the-art manufacturing facilities to its dedicated DSIR recognised R & D team, these MODEMS have varied speed capabilities and are available in both the dial-up and leased line versions.

Worldwide MODEMS inbuilt user-friendly features find use in varied applications like the **Internet, Bulletin Board Services, File Transfers, Remote Logins** and **Host- to-Host Interconnect.**

Worlwide's product repertoire also includes TELE INFORMATION PROCESSING SYSTEMS and VIDEO CONFERENCING SYSTEMS to ensure timely access to vital information and enhanced customer service, ultimately leading to business advancement.

Our Modems today are,

Making Headlines (Times of India, Indian Express),

Influencing Fashions (Grasim, Reliance),

Speeding Technology (Onward Technologies Ltd., DoT, Railways),

Moving the SENSEX (NSE, BSE, OTCEI).

Aptly summing up our Corporate Vision of ***CONNECTING PEOPLE. BRIDGING DISTANCES.***

WORLDWIDE
TECHNOLOGIES LTD

MUMBAI : Tel. : 6121177 / 6121331 / 6118196. Fax : 6118195. **MADRAS** : Tel. : 8522006/8524289. Fax : 8524619. **CALCUTTA** : Tel. : 2426063.
DELHI : Tel. : 6443033 / 6443725. Fax : 6464469. **BANGALORE** : Tel. : 5591615 / 5593075. Fax : 5591615. **SECUNDERABAD** : Tel. : 813568.

● HIGH SPEED MODEMS ● IVRS (Interactive Voice Response System) ● VIDEO CONFERENCING SYSTEMS ● REMOTE ACCESS

CC-0. Mumukshu Bhawan Varanasi Collection. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...tment Advisor 1.0 Software for investors. Covers all the schemes of LIC, UTI, NSC, GIC etc. Upgrades free. **Price:** Rs 500..5,000 **Vendor:** Shreeji Computer Services **RQS#** 72214

...stment Management System Portfolio management package for individual investors. Keeps track of investments in shares, debentures, FDs, NSC etc, and gives investment advice. **Price:** Rs 2,500 **Vendor:** Creative Computer Services **RQS#** 72215

...PITAL 3.3 Personal accounting and portfolio management software featuring new or rights issue, reports on capital gains etc. **Price:** Rs 5,850 **Vendor:** Kruti Systems **RQS#** 72216

...i-Bahi 1 Personal accounting system with multi-level security of data entry within a flexible period. **Price:** Rs 5,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 72217

...ney Mint 2.0 Personal portfolio management system for investors. Tracks shares, debentures for primary and secondary markets. **Price:** Rs 2,950 **Vendor:** Optimal Computer Consultants Pvt Ltd **RQS#** 72218

...book Tracks information on confidential transactions. **Price:** Rs 1,950 **Vendor:** Malpani Soft Pvt Ltd **RQS#** 72219

...deshik Maintains address book or directory. **Price:** Rs 999 **Vendor:** Bharat Computers **RQS#** 72220

...anizer Information manager for organizing appointments, addresses, reminders. Has a text editor, memopad, mailmerge, labels, world times and STD/ISD codes. **Price:** Rs 1,250 **Vendor:** Exnora Infosys **RQS#** 72221

...sonal Accounting System Offers multiple file consolidation facility, generates interest calculation, bank reconciliation, balance sheet etc. **Price:** Rs 1,000 **Vendor:** Landmark Software **RQS#** 72222

...sonal Diary Used for storage and retrieval of addresses, telephones, STD codes, dates, meetings etc. **Price:** Rs 1,400...2,400 **Vendor:** BIT Computers **RQS#** 72223

...sonal Memo Banker 1.01 Utility to keep track of your bank accounts. Password protected and encrypted for security. **Price:** Rs 1,200 **Vendor:** ETComm & Software Services **RQS#** 72224

...sonal Resources Planner for Windows Features include appointments, to-do-list, cards, accounts, portfolio management etc. **Price:** Rs 3,699..4,599 **Vendor:** RDK Compu Data Techniks **RQS#** 72225

...ne+Aid Telephone index-cum-dialing software. **Price:** Rs 2,700 **Vendor:** Tender Care **RQS#** 72226

...ver Mail Password-protected personal information manager. **Price:** Rs 700 **Vendor:** Headline Computers **RQS#** 72227

...ssworks Star Collection Suite of utilities to manage finances. **Price:** Rs 1,600 **Vendor:** Zon Marketing **RQS#** 72228

...sma Managing Directors Set 2.0 Features day planner, work allotment, daily appointments, reminder, and letter tracking. **Price:** Rs 5,500 **Vendor:** Raychan Sysmatics **RQS#** 72229

...siplan EP2 Manage appointments, to-do-lists, accounts, address book, editor, mail-merge, holidays, etc. **Price:** Rs 999..1,899 **Vendor:** RDK Compu Data Techniks **RQS#** 72230

...art Desk User-friendly personal information manager cum office utilities software. **Price:** Rs 2,650 **Vendor:** Electrocom Software **RQS#** 72231

...art Executive Enter information on appointments, calls, projects etc. **Price:** Rs 2,000..5,400 **Vendor:** Robocom Business Systems Pvt Ltd **RQS#** 72232

...TRACKER for WINDOWS A set of applications to help enhance your marketing and service activities. **Price:** Rs 11,000 **Vendor:** Datasoft Application Software India Ltd **RQS#** 72233

...lephone Directory Password protected personal phone directory which stores phone and pager numbers, addresses etc. **Price:** Rs 550 **Vendor:** Deep Computers **RQS#** 72234

...tal Plan 2.5 Personal information management system. **Price:** Rs 2,050 **Vendor:** Headline Computers **RQS#** 72235

...racle Keeps track of appointments, birthdays, anniversaries, to dos and expenses in a user-friendly diary format. **Price:** Rs 2,000 **Vendor:** SiLicon Interfaces **RQS#** 72236

...S-Organizer Personal information manager with over 25 productivity tools and features. **Price:** Rs 1,995 **Vendor:** Unique Business Solutions **RQS#** 72237

...me! 1.0 Provides timesheets and weekly reports and graphical analysis of activities in the organization. **Price:** Rs 495..9,995 **Vendor:** SiLicon Interfaces **RQS#** 72238

SYSTEM SW

...herent A UNIX-clone, 32-bit multitasking operating system. **Price:** Rs 7,140 **Vendor:** CIStems Software **RQS#** 72239

...ps 90 Distributed computing solution for power systems management. **Price:** Rs 400,000 **Vendor:** CDAC **RQS#** 72240

...SOview/X Complete GUI-based, cross-platform, pre-emptive multitasking environment. **Price:** Rs 12,490 **Vendor:** Unison Computer Systems **RQS#** 72241

OS/2 Warp has had the features and stability that Windows has struggled with for years, but IBM's OS never did take off on the desktop

SOFTWARE
SYSTEM SW

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The new

Sportster Vi with personal voice mail. Guaranteed to leave the competition speechless.

You've heard a lot of modem-talk. So isn't it time you heard a modem talk? The new Sportster Vi 14,400 bps faxmodem from USRobotics with Personal Voice Mail, which accepts and digitally records your incoming voice messages.

The Vi also signals alphanumeric pagers, supports caller ID, automatically detects incoming fax calls and delivers fax on demand. Plus, with its new VoiceView protocol by Radish Communications Systems, you can actually send data during an ordinary voice call.

The Sportster Vi, like all USRobotics products, features award winning quality which has made USRobotics the largest selling modems in the world. The USRobotics range not only includes modems (external and internal), but other access products like PCMIA, network managed systems and ISDN products.

USRobotics is brought to you by Microsense - who offers and supports everything in modems, communication software and other access products.

For more details about the Sportster Vi modem or other models in the USRobotics range, do the obvious. Talk to us.

U.S.Robotics from MICROSENSE

USRobotics, the USRobotics logo and Sportster are the registered trademarks and Sportster Vi is a trademark of U.S. Robotics Inc. of USA. VoiceView is a registered trademark of Radish Communications Systems Inc. USA.

Microsense Computers Pvt. Ltd. • Bombay: 808, Embassy Centre, Nariman Point, Bombay 400 021. Tel: (022)2872948, 2831489, 2825441, 2836642. Fax: 2870
Email: bomaad90@giasbm01.vsnl.net.in • **Delhi:** 1, Community Centre, East of Kailash, New Delhi 110 065. Tel: (011)6410134, 6465855, 6470619-20. Fax: 6
Email: DELAAB30@giasdl01.vsnl.net.in • **Madras:** 5/D, J.P. Towers, 7/2, Nugambakkam High Road, Madras 600 034. Tel: (044)8276469, 8256529, 8233080-81. Fax: 8
Email: MDSAAA33@giasmd01.vsnl.net.in • **Secunderabad:** 2nd Floor, Emerald House, Sarojinidevi Road, Secunderabad 500 003. Tel: (040)845008,846266, 844781. Fax: 8
Email: bomaad63@giasbm01.vsnl.net.in • **Bangalore:** 209, 2nd Floor, Richmond Tower, Richmond Road, Bangalore 560025. Tel: (080)2210816, 2218037, 2273538-9. Fax: 2
Email: bomaad64@giasbm01.vsnl.net.in • **Calcutta:** AD, 161, Salt Lake City, Calcutta 700064. Tel: (033)3213791, 3213870. Fax: 3376290. Email:CALAAA36@giasbm01.vsnl.net.in

Dealer/OEM Enquiries Welcome

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

DOS 6.22 Latest version of DOS. **Price:** $55 **Vendor:** Ultimedia System Associates **RQS#** 72242

DOS 6.22-RUP Latest version of DOS: retail upgrade for licensed users. **Price:** Rs 2,230 **Vendor:** Sonata Software Ltd **RQS#** 72243

Windows 3.11 Peer-to-peer OS that allows sharing of resources connected to the network. **Price:** Rs 6,070 **Vendor:** Sonata Software Ltd **RQS#** 72244

Windows 95 32-bit OS with GUI, built-in networking, Internet support. Supports long filenames. **Price:** Rs 5,500 **Vendor:** Tata Unisys **RQS#** 72245

Windows 95 Upgrade Retail upgrade for Windows 95. **Price:** Rs 5,110 **Vendor:** Sonata Software Ltd **RQS#** 72246

Windows NT Server 3.51 Fault tolerant OS with 32-bit file access, networking capabilities and multiple processor support. **Price:** Rs 28,000 **Vendor:** Beta Information Technologies **RQS#** 72247

Windows NT Workstation 32-bit OS which can act as a client to NT server. **Price:** Rs 19,280 **Vendor:** Sonata Software Ltd **RQS#** 72248

Monitor SCO UNIX system analyzer. Identifies system bottlenecks and checks system performance. **Price:** Rs 16,000 **Vendor:** VXL Instruments **RQS#** 72249

NetWare 4.1 Network operating system that provides directory services, multiprotocol routing, network management, security and print services. **Price:** Rs 35,040 **Vendor:** Onward Novell Software **RQS#** 72250

Object Trieve X_Open ISAM file manager, which supports BLOBS up to 2 GB. **Price:** Rs 1,800 (DOS), 40,000 (UNIX) **Vendor:** Coromandel Software **RQS#** 72251

OS/9 Operating System (Real Time Operating System) Provides multitasking, priority-driven pre-emptive scheduling and fast contex switching. **Price:** NA **Vendor:** BPL Telecom Ltd **RQS#** 72252

SCO ODT **Price:** Rs 46,800 **Vendor:** Sonata Software Ltd **RQS#** 72253

SCO Open Server Enterprise System Has a five-user base limit. **Price:** NA **Vendor:** Sonata Software Ltd **RQS#** 72254

SCO Open Server Enterprise System Server Rel 5.0 High-end, business critical server. **Price:** Rs 76,700 **Vendor:** Tata Unisys Ltd **RQS#** 72255

SCO OpenServer Host System UNIX server operating system for Intel-processor-based platforms. **Price:** NA **Vendor:** Sonata Software Ltd **RQS#** 72256

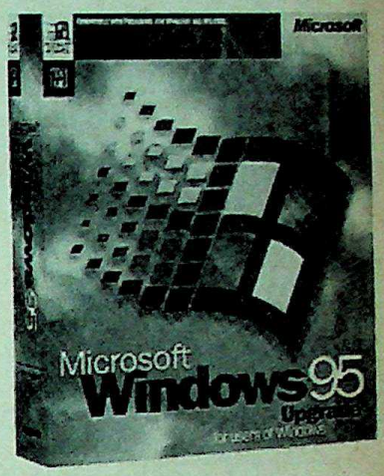
SCO OpenServer Release 5 UNIX server for business critical computing for Intel processor based platforms. **Price:** Rs 79,000 **Vendor:** Hexaware Infosystems Ltd **RQS#** 72257

Solaris 2.5 Powerful and scalable UNIX operating environment for Intel x86/PowerPC platforms. **Price:** Rs 58,275 **Vendor:** Tata Consultancy Services **RQS#** 72258

Spectrix Realtime Operating System UNIX for real-time applications. Compatible with off-the-shelf UNIX, Win NT products. Supports DOS and Win apps also. **Price:** NA **Vendor:** Dharma Computers **RQS#** 72259

Tarantella PC-X server and terminal emulator for Microsoft Windows. **Price:** Rs 27,000 **Vendor:** Sonata Software Ltd **RQS#** 72260

Tarantella PC-X server which lets you use your Win PC to run UNIX and X-Windows programs on a remote host. **Price:** Rs 15,990 **Vendor:** Unison Computer Systems **RQS#** 72261



Windows 95 is Microsoft's marketing coup, and its giant leap from Windows 3.1 toward the Mac's elegance and plug-and-play ease of use

UTILITIES

APC Powerchute Plus Advanced UPS power management and diagnostic software. Available for almost all OSs. **Price:** Rs 3,700 **Vendor:** American Power Conversion **RQS#** 72262

Anti Crook Software solution to prevent piracy. **Price:** NA **Vendor:** URA Soft **RQS#** 72263

Data Saver Tool to undelete files directly from the free list. **Price:** Rs 15,000 **Vendor:** Barve Software **RQS#** 72264

Hasp Protects applications in DOS, Windows and LAN environments.Restricts number of installations and concurrent owners. **Price:** Rs 20,000..55,000 **Vendor:** Stride Systems **RQS#** 72265

Infotrace Captures data from the EPABX and generates various usage reports. **Price:** Rs 7,500 **Vendor:** Softchip Consultants **RQS#** 72266

InstallSweep 95 Uninstaller for Win apps that tracks unused DLLs and duplicate files, and cleans INI files. **Price:** Rs 1,990 **Vendor:** Unison Computer Systems **RQS#** 72267

Compression And Archive Set Collection of compression software including PKlite, PKZIP 2.0hg, AUTOLZE, Arcstate, Lzdata and PKZMenu. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72268

Crypto 3.0 Multi-level encryption package that encrypts files to an undecipherable set of datastreams. **Price:** Rs 1,500 **Vendor:** Chenab Information Technologies **RQS#** 72269

Cryptor 3.1 Data encryption package based on DES algorithm. Object linkable libraries also available. **Price:** Rs 4,000 **Vendor:** Proficient Computer Services **RQS#** 72270

SOFTWARE UTILITIES

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

IN CASE OF A VIRUS ATTACK
LET LOOSE THIS STEALTH BOMBER

Quick Heal is a powerful, state of the art anti-viral package that offers solutions for both DOS and WINDOWS as well as for Novell Netware.

Take a look at some of its invincible features :

- Employees latest, anti stealth techniques to combat stealth viruses. No virus escapes through its SCAN NET.
- Any user can adopt to it in a couple of minutes.
- Scans any floppy in just 2 clicks from any application under Windows.
- A watchdog facility ensures that no virus spreads in the system.
- Automatic scanning of hard disk as per the schedule.
- Stores snapshot of your system's vital areas and compares with snapshot during every boot-up.
- Can re-build damaged partition table and Boot sector.
- Can rebuild infected files, even from unknown viruses
- Special features of Novell Netware users.
- Cleans an infected server very easily. Backed by strong countrywide service support, Quick Heal offers a comprehensive, reliable, user-friendly solution to any virus menace.

Also available QUICK HEAL NLM.

NCS NATIONAL COMPUTER SYSTEMS

HEAD OFFICE : PANSARE BUILDING, AKURDI, PUNE - 411 035, PH : (0212) 37588, FAX : 455767, 84382 **BRANCH :** 3, COMMERCIAL BUILDING, 23, NETAJI SUBHAS ROAD, CALCUTTA-700001, PH : (033) 2209693, 2205259

LIST OF DEALERS : • **Aurangabad :** Flairbit Systems, Ph : 485728. **Ahmedabad :** Kamavati Computers, Ph : 6749679. **Bangalore :** Cat Computers, Ph : 662175, Computek India Ltd. Ph . 2237940 / 22250 20. **Calcutta :** Compu Graphics, Ph : 2206668, Mangalam International, Ph : 2425238. **Coimbatore :** Skil Forte, Ph : 440510 / 394190. **Delhi :** Modi Peripherals Pvt. Ltd., Ph : 6461229 / 6431016. **Hyderabad :** Primus Information Systems, Ph : 241980. **Indore :** Base Computers, Ph : 534017 / 431898. **Jalgaon :** Amruta Computers, Ph : 29460. **Kolhapur :** Real Time Computers, Ph : 663662. **Latur :** Reliable Computers, Ph : 40558, **Madras :** Datacomm Consultant, Ph : 830862. **Nasik :** Hitech Computers, Ph : 579104. **Nagpur :** The Compu Shop, Ph : 523187 / 526761. **Patna :** Cygnet, Ph : 200201, 239714. **Raipur :** Shiva Computex. **Ranchi :** Softaid, Ph : 315175 / 203022. **Rourkela :** Unitech Engineers, Ph : 893127. **Surat :** Fast Software Services, Ph : 612886, **Ujjain :** Digitronix, Ph : 54042. **Vijaywada :** Dhruva Systems, Ph : 477414.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Select File Utilities Collection of file utilities for effective systems maintenance. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72271

Best Systems Utilities Collection of system maintenance utilities. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72272

Compression/Archive Manager Compression utilities including AIN Archiver, Zip-disk, Zip-tool etc. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72273

Database Utility Pack Utility programs for dBASE, Clipper, FoxPro etc. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 72274

Disk Utilities Set of disk utilities for effective disk management. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72275

Dot-Matrix Kit Helps to take care of your DMP. Includes fonts, utilities, maintenance programs etc. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72276

Floppy/Tape Tool Kit Tools for management of floppy disk and tape drive systems.Includes backup utilities. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 72277

Hard Disk/CD-ROM Manager A collection of tools for hard disk and CD-ROM management. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72278

Hardware Technician System maintenance utility for hardware technicians. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72279

Menu and Shells Set of programs for creating menus and shells. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72280

Mix Bag Utility Set of useful utilities for effective system utility and maintenance. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72281

Printers Apprentice Ideal software toolkit for printers. Includes laser printer add-ons, font managers etc. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72282

Screen Saver Kit Collection of screen savers for DOS and Windows. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72283

Screen Utilities Creates screen-effects. Good for presentations and demos. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72284

System Manager Collection of system management tools for hardware technicians. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72285

Window Utilities Collection of utilities for Windows apps. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72286

Windows Icon Library Icon management package to create, modify and edit icons. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 72287

Windows Manager Windows utilities like ClipWind, Delta, Diskman etc. **Price:** Rs 799 **Vendor:** Databank Systems **RQS#** 72288

Windows Mixed Bag Utilities Set of routines for common use with Windows. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 72289

Windows NT Tool Kit A set of programs and utilities for Windows NT. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72290

Windows Overload Collection of Win apps, utilities, tool kits, graphics etc. **Price:** Rs 1,499 **Vendor:** Databank Systems **RQS#** 72291

Windows Starter Kit Helps in management and maintenance of MS Windows. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72292

Linkware It provides bi-directional access to CNC machine part programs from a PC. **Price:** Rs 37,500 **Vendor:** Creative Micro Systems **RQS#** 72293

TAR TAR for DOS. Offers SCSI, QIC and LAN support, error recovery, automatic data compression etc. **Price:** Rs 22,000 **Vendor:** Barve Software **RQS#** 72294

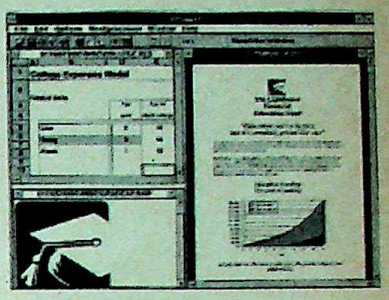
Tincture Utility to detect and correct corrupted xBASE DBF files. **Price:** Rs 1,490 **Vendor:** Bellman Data **RQS#** 72295

1.0 Directories editor and file management utility. **Price:** Rs 249 **Vendor:** Winoj Softwares **RQS#** 72296

Utilities Pack Set of useful disk utilities that include 2Format, 3D Menu, Align and 400Disk. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72297

Matrix Printer Kit Collection of programs to enhance dot matrix printer performance, includes fonts and print controllers. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72298

DON 3.0 Utility for E.X. with features like compressed backup, export to spreadsheets, budgeting, depreciation, LIFO and FIFO stock valuation etc. **Price:** Rs 1,800 **Vendor:** Supreme Technologies **RQS#** 72299



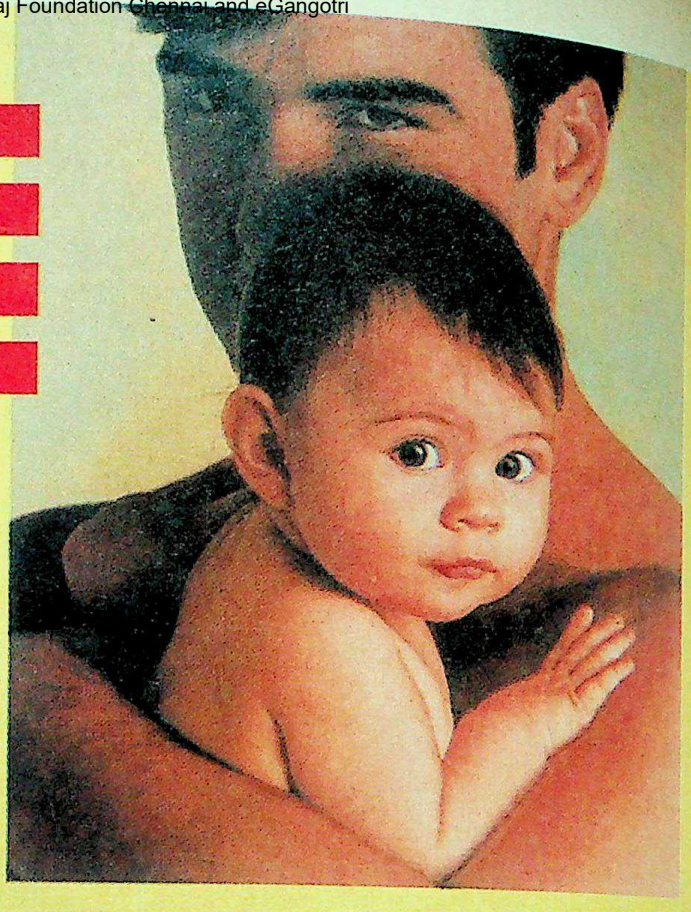
KEYview is a viewer and print utility for file attachments to any e-mail in Windows, regardless of the originating application

SOFTWARE UTILITIES

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

TRUST OUR **UPS**
TO NEVER LET YOUR
PRECIOUS ONE
DOWN



CELL POWER ELECTRA

PROTECTS YOUR COMPUTER DATAS LIKE NO OTHER UPS

CELL POWER ELECTRA Intelligent UPS systems are now available in a wide range :

UA SERIES INLINE UPS : High In-rush current type, built with LINE INTERACTIVE, SMART BOOST Design for extended voltage operations and increased battery life.

HU/TU SERIES ONLINE UPS. True on-line sine wave, microprocessor-controlled, high frequency 20/50 KHZ SPWM, designed with Electronic Short Circuit Protection.

Above all, POWER-MONITORING SOFTWARE - compatible, COMPOSITE INDICATIONS BUZZER facility and other unmatched features make it the ultimate choice for absolute protection of your computer and its data.

250 VA - 120 KVA Capacity
In technical collaboration with **Cellpower, Taiwan**

CELL POWER ELECTRA
INTELLIGENT UPS

For further details/demonstration call ...

SPACEAGE ELECTRO OFFIQUIPMENTS (P) LTD.

H.O. 16, G. C. Avenue, Calcutta-13, Ph.: 27-5975/5761, Fax : 91-33-262106

BRANCH : Bangalore - No.30/1,4th Floor, Room No.15,S.J.Towers, Mission Road, Bangalore - 560 027,Tel No.223 3622/6766/2953 Fax: 227 1759. **Hyderabad :** Room No.414, Raghavratna Towers,Chirag Ali Lane,Hyderabad,Tel No.203664. **Guwahati :** C/o. P. N. Pharma Marketing Services (P) Ltd., Compound of Assam Silicate Glass & Chemical House, A. K. Deb Road, Fatashil (Ambari) Guwahati-2, Ph. 524972/73 Fax: 524863.

AUTHORISED DISTRIBUTORS : Bombay - Apex Enterprise, Ph. 3895548/49 Fax :022-3891338. **Madras** - Digital Power Systems, Ph. 4831426/425197,Fax: 040-6413361(Hyd) **Bhubaneswar** - Lalani International, Ph. 402013/5178 **Fax: 0674-400599. Bangalore** - Simprotec Computers Pvt.Ltd. Tel.No.557 3257/554 8473

AUTHORISED DEALERS : Bombay - Chhadva Computer, Ph. 5135953. Mahavir Electronics, Ph. 8747169. **Ranchi** - Ranjan Electronics & Electricals, Ph. 317802. **Bhubaneswar** - Nu-Tech Computers, Ph. 408199, **Jamshedpur** - Paramount Commercial, Ph. 28743. **Madras** - Zeron Electronics (P) Ltd. Ph. 4833790/2013. **Dhanbad** - Bharat Enterprise,Ph. 462516. **Bangalore** - Fox Technology, Gold Stroke Computers, Dell Technologies. **Vellore** -Integrated Softwares. **Vizag** -Computer Terminus, Ph. 552223. **Guwahati** - Seema Agency Ph. 540235. **Dibrugarh** - Gigabyte Computers, Ph. 21656. **Patna** - Computer Plus, Ph. 657787.**Hyderabad** - Futech Systems, Ph. 295896. **Siliguri** - International Bose Computers Ph. 434412. **Gangtok** - Focal Point, Ph. 23245. **Vijaywada** - Mehr Computers, Ph. 479597. **Berhampur** - Digital Electronics & Computers.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Though disk space and memory are both cheap, utilities that optimize them—and other system resources—remain popular

Encryptor 2.2 Encryptor program which is fast, secure and compact. **Price:** Rs 500 **Vendor:** Programware Computer Company **RQS#** 72300

Utilities Pack Set of file utilities including file finder, disk scan, backup and print utilities. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72301

Cabinet Utility for classification, storage and retrieval of office correspondence. **Price:** Rs 2,500 **Vendor:** Creative Computer Services **RQS#** 72302

Pack Useful set of fonts, utilities and other font-generation programs for laser printers. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72303

Armor for Windows Access control software for Windows. Protects groups, icons, programs, data files, Windows settings etc. **Price:** Rs 3,800 **Vendor:** IT Secure **RQS#** 72304

Unitype Ver.1.7/ Add on kit for Windows based apps, supports over 175 languages, including right to left reading languages. **Price:** Rs 19,000 **Vendor:** Micrographics **RQS#** 72305

Hurricane A utility designed to speed up Windows apps by freeing up memory and resources. **Price:** Rs 3,600 **Vendor:** IT Secure **RQS#** 72306

Digital Signature Authentication Software Offers digital signature encryption and authentication utilities. **Price:** NA **Vendor:** Trans-Tel Communications **RQS#** 72307

Speedprint Helps in improving print quality of graphics on DMPs, inkjets, and laser printers. **Price:** Rs 1,500 **Vendor:** Software India Corporation **RQS#** 72308

Backup 1.0 Small, menu-driven backup and restore program that can selectively compress files on the fly. **Price:** Rs 700 **Vendor:** Programware Computer Company **RQS#** 72309

FAXview for Windows Allows users to view print files received as e-mail attachments. **Price:** Rs 900 **Vendor:** Priya International Ltd **RQS#** 72310

Shredder 2.0 Electronic analog of standard office paper shredder that wipes out files for good. **Price:** Rs 600 **Vendor:** Programware Computer Company **RQS#** 72311

LAN Programs And Utilities Collection of shareware for LANs in Novell NetWare and NetWareLite. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72312

Print Manager Comprehensive printer and job status manager. **Price:** Rs 15,000 **Vendor:** Barve Software **RQS#** 72313

IT Auditor Protects corporate data by providing detailed audit trails, software metering, hardware asset protection, intruder detection, and real time alerting. **Price:** Rs 35,000 **Vendor:** IT Secure **RQS#** 72314

Volume Optimizer Optimizes SCO file systems for faster performance. **Price:** Rs 15,000 **Vendor:** Barve Software **RQS#** 72315

MagnaRAM 2 Increases Windows memory to speed up system. **Price:** Rs 1,990 **Vendor:** Unison Computer Systems **RQS#** 72316

Darshak 1 Complete desktop viewer for all types of files. **Price:** Rs 1,490 **Vendor:** Infotrend Services **RQS#** 72317

Diskshield Protects data from being copied or misused by unauthorised users. **Price:** Rs 1,995 **Vendor:** Nashsoft Systems **RQS#** 72318

NetTools Centrally controlled and secure Windows desktop. **Price:** Rs 166,738 (100 Nodes) **Vendor:** Pyramid Business Systems **RQS#** 72319

Norton Backup 3.0 Fast backup software, which supports high-speed tape controllers. **Price:** Rs 2,550 **Vendor:** Infosys **RQS#** 72320

Norton Commander 5.0 DOS shell profile management program. Supports e-mail and PC-to-PC file transfer. **Price:** Rs 3,150 **Vendor:** Infosys **RQS#** 72321

Norton Desktop 3.0 Provides a complete range of Windows utilities and productivity tools. **Price:** Rs 4,390 **Vendor:** Infosys **RQS#** 72322

Norton Disklock 3.0 Password-protected security and file locking and encryption program. Provides multi-level protection. **Price:** Rs 4,390; Rs 19,190 (10 users) **Vendor:** Infosys **RQS#** 72323

Norton Utilities 8.0 Set of tools for data protection and recovery. **Price:** Rs 6,050 **Vendor:** Infosys Technologies Ltd **RQS#** 72324

Perfect Backup And Store UNIX data management and backup program. Runs in both character and X-Windows environments. **Price:** Rs 22,000 **Vendor:** Barve Software **RQS#** 72325

PKware Products PKzip, PKlite and data compression libraries. Can compress ASCII and binary files. No run time royalties. **Price:** Rs 13,200..16,800 **Vendor:** Stride Systems **RQS#** 72326

Platinum SQL Spy Automates the monitoring of Windows-based database servers. **Price:** $995..6,995 **Vendor:** Ashok Leyland Information Technology Ltd. **RQS#** 72327

Platinum TSreorg Reorganizes tablespaces, including defragmentation and data partitioning. **Price:** Rs Site specific **Vendor:** Ashok Leyland Information Technology Ltd. **RQS#** 72328

SOFTWARE UTILITIES

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

YOUR DREAM COMPUTE

has a MODEM and an INTERNET CONNECTI
a CD-ROM DRIVE, SOUND and COL
lots of RAM and HARD DISK spa
WINDOWS 95, a fast PENTIUM/133 insi
and LOOKS that demand DESIGNER LABE

and you won't find it in your offic

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ality Enhancer Gives laser-like printing with access to 25 different fonts on a DMP. Interfaces with Wordstar, Lotus 1-2-3, dBASE etc. **Price:** Rs 4,950 **Vendor:** Alpine Automation **RQS#** 72329

ine Telephone Call Analysis Connects EPABX system to the computer and generates various types of usage reports. Can be interfaced to a billing system. **Price:** Rs 10,000..14,000 **Vendor:** Decision Software India **RQS#** 72330

& Memory management software. **Price:** Rs 4,290 **Vendor:** Unison Computer Systems **RQS#** 72331

2.0 Intelligent COPY program that distributes files into floppies of different capacities. **Price:** Rs 700 **Vendor:** Programware Computer Company **RQS#** 72332

ifier 95 RAM doubler that can increase the size of computer memory and make it work faster. **Price:** Rs 3,600 **Vendor:** MicroWorld **RQS#** 72333

Q Recovery from disk corruption. **Price:** Rs 2,000 **Vendor:** Pioneer Micro System **RQS#** 72334

Airbag Reconstructs UNIX and XENIX from a hard disk. Recovers almost everything that one could imagine. **Price:** Rs 15,000 **Vendor:** Barve Software **RQS#** 72335

1.0 System reporting tool. **Price:** Rs 3,000 **Vendor:** Programware Computer Company **RQS#** 72336

er LAN Workstation For managing Windows desktop, software assets, inventory distribution and metering. **Price:** Rs 304,051 (100 nodes) **Vendor:** Pyramid Business Systems **RQS#** 72337

key/Safekey Plus 1.00 Menu-driven multi-user file security package. **Price:** Rs 2,200..3,800 **Vendor:** Esskay Software Solutions **RQS#** 72338

k Real time fact finder. Supports performance statistics, point-to-point tests, optimal NetWare configuration. **Price:** Rs 4,900 **Vendor:** Byzan Systems Pvt Ltd **RQS#** 72339

gate Software Data protection and storage management for desktops and LANs. **Price:** Rs 31,000 **Vendor:** Sowswe Electronics Pvt Ltd **RQS#** 72340

ster 1.0 Replaces Program Manager to reduce clutter and organizes files and programs as folders. **Price:** Rs 1,990 **Vendor:** Unison Computer Systems **RQS#** 72341

Express Helps in enterprise-wide software distribution using scripting language. **Price:** Rs 93,177 (100 nodes) **Vendor:** Pyramid Business Systems **RQS#** 72342

Meter Enterprise-wide software license metering system. **Price:** Rs 73,561 (100 nodes) **Vendor:** Pyramid Business Systems **RQS#** 72343

net 1 Ensures orderly shut down of networks during power failure with a quick and easy reboot on power on. Warning messages can be broadcast to users. **Price:** NA **Vendor:** Tata Liebert Ltd **RQS#** 72344

net 2 UPS monitoring and network crisis management software. Allows scheduling of UPS diagonistics and battery tests. **Price:** NA **Vendor:** Tata Liebert Ltd **RQS#** 72345

rdog Data Security System Provides security cover against deliberate data destruction, unauthorized access and virus attacks. **Price:** Rs 2,500 **Vendor:** Ampersand Consultants **RQS#** 72346

ndBlaster Utilities Collection of SoundBlaster programs and utilities. Needs sound card. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72347

ster 5.0 Recovers data from damaged hard disks and floppy disks and formats Track 0 bad floppies. **Price:** Rs 3,990 **Vendor:** Stride Systems **RQS#** 72348

ta Instant Replay Allows real time screen capture. It is aimed at computer training programs. **Price:** NA **Vendor:** Tata Elxsi **RQS#** 72349

stem Utilities Set of system screens and utilities. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72350

pe Tell Monitors every backup tape and lets you know which tape you are overwriting. Also keeps a log of activities. **Price:** Rs 15,000 **Vendor:** Barve Software **RQS#** 72351

y Check Does bit-level verification of backup media. Prevents false file verifications. **Price:** Rs 15,000 **Vendor:** Barve Software **RQS#** 72352

ing Tools for Windows Tools to make Windows shake but not fall. **Price:** Rs 26,500 **Vendor:** Beta Information Technologies **RQS#** 72353

Secret Security software that can password-protect data on floppies. **Price:** Rs 3,000 **Vendor:** Charly Computers **RQS#** 72354

X 2 UNIX/UNIX 2 DOS 2.1 Software for automated transfer of files between UNIX and DOS machines through dial-up, leased line or public data network connections. **Price:** Rs 4,000..7,500 **Vendor:** Winsoft Technologies (I) Pvt Ltd **RQS#** 72355

Self for UNIX Optimizes ADA compilers and related tools and helps in fixing the related codes. **Price:** $7,500..3,000 **Vendor:** Object Oriented Interactive Software **RQS#** 72356

Base 4.1 Finds views, red lines and prints raster images of documents. **Price:** Rs 20,000 **Vendor:** HOPE **RQS#** 72357

ual Workshop for C++ Product suite for C/C++. Available for x86. Includes Proworks/VisualProWorks teamware. **Price:** Rs 115,000 **Vendor:** Tata Consultancy Services **RQS#** 72358

Disk space doublers are clearly effective, but RAM doublers have been controversial in their effectiveness

SOFTWARE UTILITIES

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

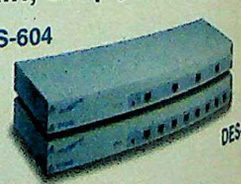
You DON'T Have to Bring Down the Entire Structure

Just to Improve Your Network's Bandwidth

Solving your network's congestion problem doesn't require tearing down the whole infrastructure. Like replacing your 10BASE-T cables and adapters with higher-bandwidth hardware. With D-Link switching hubs, you can add devices to get immediate performance gain, simply and economically.

Plug-and Play Solution
Our 10BASE-T switching hubs provide the quickest way to boost your workgroup's bandwidth. You'll get full-duplex transmission that opens up all bottlenecks at the most competitive prices.

DES-604



10/100Mbps Switches
Our SNMP-managed devices not only accelerate your performance across Ethernet ports, but also integrate with 100Mbps Fast Ethernet. You'll get easy expansion, and very flexible network management.

DES-2205

D-Link
Commitment to Connectivity
D-Link(India) PVT. LTD.

Goa Factory: TEL:0834-783393-4 FAX:0834-783395
Bangalore(South Region): TEL:080-6628751 FAX:080-6603583
Bombay (West Region): TEL:022-6172478/6112696 FAX:022-6172476/6113503
Delhi (North Region): TEL:011-6217074 FAX:011-6851530
Calcutta (East Region): TEL:033-2214317/2214318 FAX:033-221117

D-Link is a registered trade mark of D-Link Corporations. Specifications are subject to change without notice.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...rd 2.5 Gives a 80-column display of a directory on screen and printer with options to group files. **Price:** Rs 600 **Vendor:** Programware Computer Company **RQS#** 72359

...eProbe 4 Helps in diagnozing the source of hardware configuration problems. Also optimizes Windows setup. **Price:** Rs 2,990 **Vendor:** Unison Computer Systems **RQS#** 72360

...ite Knight On-the-fly encryption and decryption system prevents unauthorized printing or transfer of important data files. **Price:** Rs 1,800..9,000 **Vendor:** URA Soft **RQS#** 72361

...dows Utilities Pack Set of Windows utilities. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72362

VERTICAL APPS

...MD DC IBM AS/400 software to automate distribution centers and warehouse management. **Price:** Rs 600,000 **Vendor:** Ampersand Software Applicatons **RQS#** 72363

...AP 6.01 Password-protected application for media operations, database, ad budgeting, monitoring etc. **Price:** NA **Vendor:** Mediaware Infotech Pvt Ltd **RQS#** 72364

...ld de Hotel Management Package specially designed for star hotels. **Price:** Rs 70,000 **Vendor:** Apollo Computers **RQS#** 72365

...TA 5.0 Child health management package which deals with vaccination, clinical history etc. **Price:** Rs 4,500..8,000 **Vendor:** Computer Software Services **RQS#** 72366

...MS 1.0 Controls aircraft maintenance and upkeep. **Price:** Rs 30,000 **Vendor:** Indiana Software Labs **RQS#** 72367

...SM Mrp-II Contains all the MRP II features. **Price:** Rs 300,000..600,000 **Vendor:** Ami Sanag Micromation Ltd **RQS#** 72368

...SM Preps-II 1.0 Customizsed package for offset printing shops. **Price:** Rs 200,000...300,000 **Vendor:** AMJ Sanag Micromation Ltd **RQS#** 72369

...cEye Menu-driven DBMS for eye surgeons. **Price:** Rs 11,000 **Vendor:** Ace Computers **RQS#** 72370

...ccSys Portfolio management software, keeps track of investments, personal accounts and computation of income as per Income Tax Act. **Price:** Rs 5,950 **Vendor:** Accura Computer Services **RQS#** 72371

...tics Online ticket reservation system, which allows for issue, advance booking and cancellation of tickets. **Price:** Rs 30,000 **Vendor:** Integrated Data Systems **RQS#** 72372

...kash Handles operations of air cargo agents—from printing AWB to CSR statements, including invoicing and House Airway Bill. **Price:** Rs 15,000 **Vendor:** Softlink Services **RQS#** 72373

...cy 1.0 Multi companies system for steel rolling industries to generate online finance with books, invoicing and inventory. **Price:** Rs 12,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 72374

...asoft For management of shrimp aqua culture. **Price:** Rs 300,000 **Vendor:** PC India **RQS#** 72375

...gy Ver.1.0 Online software for hospital dispensary to manage administration of finance, X-ray reports and balance sheet. **Price:** Rs 15,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 72376

... Hotel management software consisting of modules for front office, restaurant, stores and accounting. **Price:** NA **Vendor:** Frontier Information Technologies Ltd **RQS#** 72377

...dit Help 2.0 Audit planner for chartered accountants with modules for banks, companies and tax audits. **Price:** Rs 4,999 **Vendor:** Hi-Tech Info Systems **RQS#** 72378

...to Deal 1.0 Dealer management software with sales, service, spares and accounts modules. **Price:** Rs 35,000 **Vendor:** Brainwave (India) Pvt Ltd **RQS#** 72379

...tomobile System 1.0 Automobile workshop system which manages all workshop operations from job card maintenance to billing and inventory. **Price:** Rs 9,000 **Vendor:** AS Software **RQS#** 72380

...ion ERP Software 9.0 Integrated family of client-server apps for manufacturing, planning, distribution and financial management. **Price:** Rs 4,230,000 **Vendor:** Tata Consultancy Services **RQS#** 72381

...S Has modules for handling orders, FA, objections, bad deliveries and physical movement of shares. **Price:** Rs 80,000 **Vendor:** Nucleus Software Offshore Pvt Ltd **RQS#** 72382

...nics 2000 Suite Bank automation suite. **Price:** Rs 2,500,000 **Vendor:** Infosys Technologies **RQS#** 72383

...k Branch Manager Includes almost all departments of co-operative banks. **Price:** Rs 125,000 **Vendor:** Mangalya Soft-Tech Ltd **RQS#** 72384

...ster for Windows Bank automation software developed specificaly for co-operative banks. **Price:** Rs 65,000 **Vendor:** Internet Systems **RQS#** 72385

...king Software Bank management software which allows for maintenance of account transactions, general ledger, customer history and interest calculations. **Price:** Rs 32,500 **Vendor:** Integrated Data Systems **RQS#** 72386

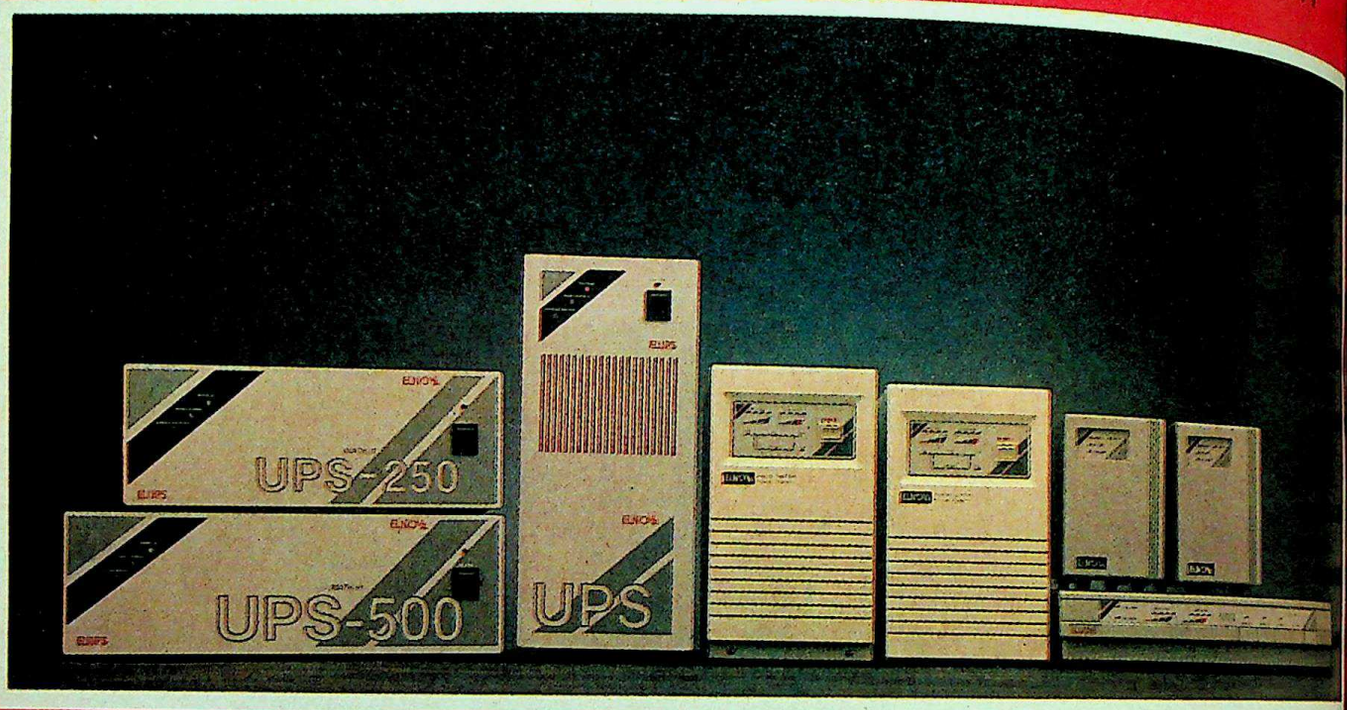
...tkoft 2.0 Banking automation software supporting online transactions, loans and deposits, and RBI forms. **Price:** Rs 175,000 **Vendor:** Processware Systems Pvt Ltd **RQS#** 72387

Sophisticated online transaction features coupled with ease of use have brought bank automation programs into the domain of mainstream apps

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Every year intelligent computer users save thousands of man & machine hours...



Rated on
TOP
PC Quest
Users' Survey 94-95
and again in
Users' Survey **95-96**

Record UPS Units sold
Apr.'95 - Mar.'96 : **6282**

by selecting and installing a UPS system that's proved its credentials as the best for **easy computing in tough power conditions,** time and again.
Join the Elnova UPS users' fraternity.
Call the Authorized Elnova Dealer nearest to you and equip your computer before power plays truant again.

ELNOVA
ELNOVA LIMITED
B-165 Okhla Inustrial Area, Phase I, New Delhi 110 020
Tel.: 6810172, 6810569 Fax:91-11-6811667

Specially for COMPUTERS **UPS** *Specially for Indian Power Conditions*

For Government Organisations: Available through Super Bazar, Connaught Place, New Delhi on rate contract :Contact or
Registered Sole supplier: M/s. Hearwell Electronics Pvt. Ltd. Ph: 6980853, 6981154,6989949, 6982937, 6989386 Fax: 91-11-68

Authorized Dealers:

NORTH •AGRA - 50555 •AJMER - 421230 • ALLAHABAD - 644330 •BAREILLY - 455085 •BHILWARA - 27625 •BIKANER - 6
•CHANDIGARH - 705998 •GHAZIABAD - 712839 •GORAKHPUR - 336152 •GURGAON - 8340003 •HARDWAR - 450489 •JAIPUR - 37
•JALANDHAR - 260998 •JAMMU - 49053 •JODHPUR - 35830 •KANPUR - 319916,312544 •KOTA - 24556 •LUCKNOW - 226576, 2
•LUDHIANA - 23800 •MUSSORIE - 631055 •MUZAFFARNAGAR - 403274 •PANIPAT - 51877 •ROORKEE - 74340 •RUDRAPUR - 6
•SHIMLA - 72552 •SRIGANGANAGAR - 31415 •UDAIPUR-525610, 414543 • VARANASI - 356338,350379

EAST •BERHAMPUR - 206317 •BHUBANESHWAR - 406180 •CALCUTTA-2387904, 3345156 •DHANBAD-307113 • GANGTOK - 2
•GUWAHATI - 565048, 543077, 543415 •IMPHAL - 220555, 220795 •ITANAGAR - 33376 •JAMSHEDPUR-423481 •PATNA-659453, 2
•RANCHI-315175 •SHILLONG - 220244 •TINSUKIA-20310

WEST •AHMEDABAD - 5507021 •AURANGABAD - 24637 •BARODA - 333193 •BOMBAY - 3436456 •GOA - 22468,22637
• KOLHAPUR - 625665 •MIRAJ - 350910 •NASIK - 70757 • PUNE - 356818, 358618 •RAJKOT - 55426 • SANGLI - 76348 •SURAT - 64
•THANE - 5361023 •ULHASNAGAR - 541225

SOUTH •BANGALORE-3374825 •BELGAUM - 26335 •COCHIN - 310182 •COIMBATORE - 444017 •HYDERABAD - 761609, 64
•HUBLI - 372106 •MADRAS - 4941719, 4345634 •MANGALORE - 440921 •VIJAYWADA - 477077 •VIZAG - 547131 • TRIVANDRUM - 4
CENTRAL •BHILAI/DURG - 323427 •BILASPUR - 21030 •BHOPAL - 582782 •GWALIOR-331721 •INDORE-531889 •JABALPUR - 2
•JHANSI-444507 •NAGPUR-520777 •RAIPUR - 535011

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Prints bills of lading for 75 different shipping lines and also generates reports for brokerage etc. **Price:** Rs 7,500 **Vendor:** Softlink Services **RQS#** 72388

Fund Operations Management 1 Windows-based software that manages operations of benefit fund companies. **Price:** Rs 35,000 **Vendor:** Infonet **RQS#** 72389

Funds Software for automation of all operations of benefit funds. Covers all operational and MIS requirements. **Price:** Rs 30,000..45,000 **Vendor:** Softsolutions **RQS#** 72390

1.0 Portfolio management package for NRIs. Available in all Indian languages. **Price:** Rs 500..50,000 **Vendor:** Shreeji Computer Services **RQS#** 72391

Lading Package for shipping and forwarding industry. **Price:** Rs 15,000 **Vendor:** ICM Computers **RQS#** 72392

Bank Management Helps manage donors, recipients, blood inventory, distribution and various reports. **Price:** Rs 28,000 **Vendor:** Picadilly Computers (India) Pvt Ltd **RQS#** 72393

Sugar 2.0 Software for doctors. Stores patient details like symptoms, medicines and doses prescribed. Generates lists and prints prescriptions. **Price:** Rs 4,995 **Vendor:** M + Software **RQS#** 72394

Chip 2.0 Investment portfolio manager with an integrated financial accounting module. **Price:** Rs 7,000 **Vendor:** Jaya Computers & Softwares **RQS#** 72395

Superfast Software with four modules for estimation and cost control, financial accounting, flat sales and client billing. **Price:** Rs 39,000 **Vendor:** Microware System & Software Pvt Ltd **RQS#** 72396

-LIC 2.50 Displays policy details of each policy holder, policy status, instalments due, due policies and lapsed policies. Performs interest calculation. **Price:** Rs 3,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 72397

Tracks pending service calls, standby machines, pending work, AMC/ASC details, customer lists and contract details. **Price:** Rs 4,000 **Vendor:** Gold Strokes Computers Pvt Ltd **RQS#** 72398

MIS for computer training institutes, which handles enquiries, enrollments and fee collection installments. **Price:** Rs 3,500 **Vendor:** Gold Strokes Computers Pvt Ltd **RQS#** 72399

Market 1.0 Indian software for the share market. Available in all Indian languages. **Price:** Rs 500..125,000 **Vendor:** Shreenathji Electronics **RQS#** 72400

Exporters Software for cashew exporters. Available in all Indian languages. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72401

Pillar Offers comprehensive solutions for hotels and hospitality management. **Price:** Rs 75,000 **Vendor:** Gowtham Computer Consultancies **RQS#** 72402

Patient billing program for hospitals and nursing homes, with OPD ticketing, discharge summary, statistics, financial reports, etc. **Price:** Rs 9,000..20,000 **Vendor:** VM Meditech Services **RQS#** 72403

3.0 Integrated ERP manufacturing software system. **Price:** Rs 120,000...200,000 **Vendor:** Cadus International **RQS#** 72404

Software for chit companies. Covers all operational and MIS requirements. **Price:** Rs 15,000..25,000 **Vendor:** Softsolutions **RQS#** 72405

Pro Shoe manufacturing and inventory management system—analyses worker performance and leather wastage on day-to-day basis. **Price:** Rs 15,000 **Vendor:** Accountronics **RQS#** 72406

Management System Software for small and medium sized clinics. Handles patient registration, patient history, in- and out-patient, clinic test results **Price:** Rs 25,000 **Vendor:** Infonet **RQS#** 72407

Complete online reports system for pathological laboratories. **Price:** Rs 6,800 **Vendor:** Headline Computers **RQS#** 72408

onent Master 1.0 Software for component dealers and service engineers. **Price:** Rs 500..250,000 **Vendor:** Shreeji Computer Services **RQS#** 72409

iner Tracking System Keeps track of containers—from import stuffing to destuffing. Generates the freight and cargo manifests, and other reports. **Price:** Rs 40,000 **Vendor:** Softchip Consultants **RQS#** 72410

ective Action Helps in identification and elimination of problems related to product quality, services, productivity, profit and other factors. **Price:** Rs 75,000 **Vendor:** Infonet **RQS#** 72411

of Quality System Helps in registering, managing and analyzing all data related to cost of quality for top and middle management for analysis and decision-making. **Price:** NA **Vendor:** Infonet **RQS#** 72412

Process and information monitoring system. Helps users share information within and between plants. **Price:** Rs 10,000 **Vendor:** Decision Plus Systems Inc. **RQS#** 72413

Advertisment Planner Collection of software for advertisement and media planning. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72414

Among the range of medical apps are several Indian ones, for specialized areas such as pediatrics

SOFTWARE
VERTICAL APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BDPS

Your Bridge to a Promising Career in INFORMATION TECHNOLOGY

LONG TERM COURSES :

- PG /Master's Diploma in Computer Applications
- Diploma in Software Commercial Applications
- 'A' / 'O' Level Courses

SHORT TERM COURSES :

- C & Unix, C++, Visual C++, Oracle, Delphi, Visual Basic, Windows 95, LAN, DTP, RDBMS, PowerBuilder, MultiMedia, Ms-Office, AutoCAD, Lotus SMARTSUITE, Hardware Maintenance, Hardware and Software Installation.

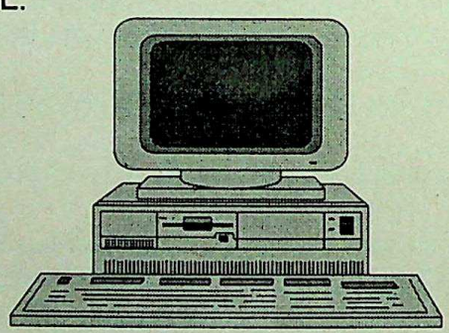
SPECIAL COURSES : ●Diploma in Computerised Air-Ticketing & Travel Management.
●Diploma in Personal Secretary.

Salient Features :

⌘ Accredited for 'O' Level Courses by DOEACC (Govt. of India)
■ Accredited for 'A' Level Courses by DOEACC (Govt. of India)
● Authorised Training Centre for SCO UNIX, Lotus SMARTSUITE & Corel Draw
● National dealer for Microsoft Products & Solution Provider
⌘ Approved by Army Head Quarters, New Delhi.
■ Approved partner for COREL.

For Details Contact :

BDPS LIMITED



82 CENTRES ALL OVER INDIA

H.O : Kathoke Bhavan, Dadar X Road,
Dadar East, BOMBAY - 400 014.
Ph : 4112281 / 4113937 Tele Fax : 4112040

⌘■● 338, 3rd Floor, Chandralok Complex,
(Lift No. 3), S.D. Road, Paradise,
SECUNDERABAD - 3. Ph : 847283 / 810

Branches :

●**BANGALORE** Ph : 2264489, **BARODA, BHUBANESHWAR, DINDUGAL,** ⌘●**GUNTUR** Ph: 230588, **GUWAHATI,**● **KOTI** (Hyd) Ph: 4733398 / 506851, ●**DILSUKHNAGAR (Hyd)** Ph : 4064173, ●**CHANDANAGAR (Hyd)** Ph: 284391, **MEHDIPATNAM (Hyd), NAGPUR** Ph:531371, **JAMSHEDPUR,** ●**KURNOOL** Ph: 23785, **KALYAN,** ⌘● **MOUNT ROAD (Madras)** Ph: 8525175, ●**TAMBARAM (Madras)** Ph : 2367391, **MADURAI,** ●**MANGALORE,**● **NELLORE** Ph : 29392, **PANJIM (Goa), PUNE** Ph : 641266, **SILCHAR, SHILLONG, TRICHUR, TIRUNELVELI,**● **TIRUPATI, TRICHY,** ⌘●**VIJAYAWADA** Ph: 66969, ⌘●**VISAKHAPATNAM** Ph : 69820 **& 50 FRANCHISE CENTRES**

BDPS always one step ahead

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Automobile Extravaganza Software for automobile management. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72415

Crime Investigator Software for criminal investigation. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72416

Departmental Store Manager Maintenance program for departmental stores and retail outlets.Includes software like QuickRegister, TradeShow, Retail, Solution etc. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72417

Home of Remedies A collection of different modalities of medication. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72418

Hospitals General Utility Collection A set of software for doctors, medical practitioners, hospitals and dentists. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72419

Hotel Management Software for hotels and restaurants. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72420

House Keeper's Assistant Collection of interactive programs on housekeeping practices. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72421

Legal Assistant Package for lawyers and attorneys. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 72422

Library Manager Library management software. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72423

Medical Journal Collection A collection of medical journals from all over the world. **Price:** Rs 199 **Vendor:** Databank Systems **RQS#** 72424

Property Manager A real estate management software. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 72425

School Management School management program for attendance, general management and more. **Price:** Rs 749 **Vendor:** Databank Systems **RQS#** 72426

Scout Guide Program for scout management. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72427

Share Broker Collection of portfolio and investment management software. Ideal for share brokers. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72428

Teacher's Assisstant Tool kit for teachers containing utility programs and grade sheet managers. **Price:** Rs 349 **Vendor:** Databank Systems **RQS#** 72429

Travel Kit Program for travellers and tourist departments. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72430

Writer's Editor An editor for writers and novelists. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72431

Street 1.0 Useful software for share markets. Offers complete market analysis. Upgrades free. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72432

ba For Schools Codeless FA package for school and college management. Handles student information, dues, remuneration, paper-setting, etc. **Price:** Rs 6,000 **Vendor:** Dhruba Software **RQS#** 72433

mond Industry System 1.0 Windows-based software for the diamond industry to handle their manufacturing, imports, exports, payroll and stocks. **Price:** Rs 75,000 **Vendor:** Zyfax Sytems Pvt Ltd **RQS#** 72434

master 1.1 Includes 24-hour recall, recommended diet and other standard diet details. **Price:** Rs 4,500 **Vendor:** Logic Computers **RQS#** 72435

r's Desk 5.01 Ideal for clinical physicians and hospitals. **Price:** Rs 5,000..15,000 **Vendor:** Ratandeep Surgical Hospital **RQS#** 72436

re Kit Clinic management software with patient and medicine database. Stores case histories of patients with password security. **Price:** Rs 10,000 **Vendor:** Greysoft Computers **RQS#** 72437

mentor General purpose documentation software useful for exporters and importers. **Price:** Rs 1,490 **Vendor:** Headline Computers **RQS#** 72438

4.5 Export documentation management system for merchants manufacturers and exporters. Covers pre-shipment and post-shipment documents and duty drawback. **Price:** Rs 12,000..8,000 **Vendor:** Optimal Computer Consultants Pvt Ltd **RQS#** 72439

Software product that carries out-billing, accounting and stock maintenance with multilevel security. **Price:** Rs 10,000 **Vendor:** Integrated Data Systems **RQS#** 72440

TY WORKSTATION Gives live quotes of various stock exchanges, news, and comparison of scrip prices. **Price:** Rs 150,000 **Vendor:** DART **RQS#** 72441

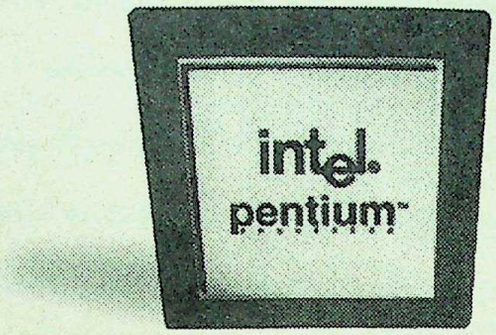
Databases and search and index tools have engendered a diverse range of apps for alternative medicine

SOFTWARE
VERTICAL APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Begin With Twin intel® Advantage



and

motherboard

Experience the amazing power of **pentium™** processor
And the high performance of motherboard made by **intel**

Now available from Priya at a special package price !

FEATURES

- WINDOWS 95 - ready
- High performance PCI local bus
- Flash BIOS for future up-gradability
- Level-5 Over Drive Ready
- Plug and Play
- PCI enhanced IDE on board
- On board 2 serial, 1 parallel port and FDD controller.
- EDO DRAM Support.

THE PRIYA GROUP

PRIYA INTERNATIONAL LTD., THE AUTHORISED DISTRIBUTOR FOR INTEL, CONTINUOUSLY BRINGS YOU HIGH END, HI-TECH PRODUCTS AT RIGHT PRICES. ADD TO THAT THE BENEFIT OF PRIYA'S SERVICE, PRODUCT WARRANTY, TECHNICAL SUPPORT AND THE ASSURANCE OF GENUINE QUALITY. AND YOU HAVE BEST OF BOTH THE WORLDS.

Now stocks available from our local outlets also.

Priya GROUP

TRUE VALUE FOR YOUR MONEY

Priya International Limited

P.O. Box 10109, Podar Chambers, 4th Floor, 109, S. A. Brelvi Road, Bombay 400 001.
Tel.: 266 3611, 266 3676, 266 3900, 266 0596, 266 2764, 266 4026 • Telex: 011-85495 PRIA IN • Fax.: 91-22-266 4154, 266 3783, 285 4037

Branch Offices: **Bangalore:** Tel.: 91-80-2214027, 2214395 Telex: 0845-8211 PRIA IN Fax: 91-80-2274105 • **Calcutta:** Tel.: 91-33-2422379, 2422379, 2428015 Fax: 91-33-2423086, 2424884 • **Delhi:** Tel.: 91-11-3314512, 3310413 Telex: 031-65072 PRIA IN Fax: 91-11-3719107 • **Madras:** Tel.: 91-44-4349031, 4349597 Fax: 91-44-4340093 • **Secunderabad:** Tel.: 91-40-813120, 814215 Telex: 0425-6334 PRIA IN Fax: 91-40-813549

**The Logos and Trade Marks shown above are of their respective owners.*

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WS Manages batchwise inventory with multiple stock points, invoicing,sales/purchase order processing, receivables and payables, financial accounting **Price:** Rs 8,950 **Vendor:** Compex Systems **RQS#** 72442

Share 2.0+ Portfolio management software which manages sale and purchase, dividend, interest, and company reports. **Price:** Rs 5,600 **Vendor:** Shyam Computers **RQS#** 72443

Share A/C Share broker accounting software with mouse support. Generates comprehensive reports and graphs. **Price:** Rs 10,000 **Vendor:** Addy Computers **RQS#** 72444

o Intelligent infertility management software for gynaecologists. **Price:** Rs 11,800 **Vendor:** VM Meditech Services **RQS#** 72445

te 3.1 for DOS Estimation software for architects and promoters. **Price:** Rs 9,250 **Vendor:** Trinity Systems **RQS#** 72446

Documentation Generates all types of reports required by an exporter. **Price:** Rs 5,000..15,000 **Vendor:** Navrang Software **RQS#** 72447

Master 2.0 Export documentation package that covers all documents needed from start to despatch. **Price:** Rs 2,999 **Vendor:** Whizkids Software **RQS#** 72448

x Total automation package for garment and textile exporters. **Price:** Rs 75,000 **Vendor:** Softsolutions **RQS#** 72449

.00 Food and beverages control and management system for hotels. **Price:** Rs 12,500 **Vendor:** Ultimedia System Associates **RQS#** 72450

AK Software for portfolio management. **Price:** Rs 8,500 **Vendor:** Span Sales International **RQS#** 72451

ST MAN Vehicle management system for truck owners. **Price:** Rs 15,000 **Vendor:** Accountronics **RQS#** 72452

e Helps automation of forex operations at different branches of a bank. **Price:** Rs 1,000,000 **Vendor:** Softsolutions **RQS#** 72453

cial Toolbox Provides financial functions essential for financial analysis apps. **Price:** Rs 60,000 **Vendor:** Cranes Software International **RQS#** 72454

es 1.3 Share management package for registrars and share transfer agents. Generates all statutory reports. **Price:** Rs 40,000..80,000 **Vendor:** Frontier Information Technologies Ltd **RQS#** 72455

Software for garment exporters—from order receipt to despatch, post and pre-shipment documentation. **Price:** Rs 55,000 **Vendor:** Softchip Consultants **RQS#** 72456

ex Software for garment (textile and leather) exporters. **Price:** Rs 500,000 **Vendor:** PC India **RQS#** 72457

Pass Front-end gate pass generation and enquiry system for transporters. It keeps track of arrival, delivery and agency records. **Price:** Rs 25,000 **Vendor:** Trisira Mindware **RQS#** 72458

al Sales Agent DSS for market analysis and sales accounting for airlines. **Price:** Rs 30,000 **Vendor:** Zon Marketing **RQS#** 72459

ion Menu-driven tool for obstetricians for computerized analysis of histories and examinations, automated follow-up visits, etc. **Price:** Rs 11,800 **Vendor:** VM Meditech Services **RQS#** 72460

EMAN Hospital management system which maintains records on patients' history, appointments of duty doctors and visiting doctors. **Price:** Rs 10,000 **Vendor:** Accountronics **RQS#** 72461

ELIER 3 Integrated hotel management software, includes modules on food and beverages, banquets, accounts and optional EPABX interface. **Price:** Rs 150,000 **Vendor:** Data Devices **RQS#** 72462

S Deals with everything from employee recruitment onwards. **Price:** Rs 30,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 72463

path Win Software designed for homoeopathic doctors incorporating patient management, analysis and diagnosis. **Price:** Rs 12,950 **Vendor:** PN Exports **RQS#** 72464

al Management Hospital management software, which allows for the creation of patients' records and pharmacy stock maintenance. **Price:** Rs 12,000 **Vendor:** Integrated Data Systems **RQS#** 72465

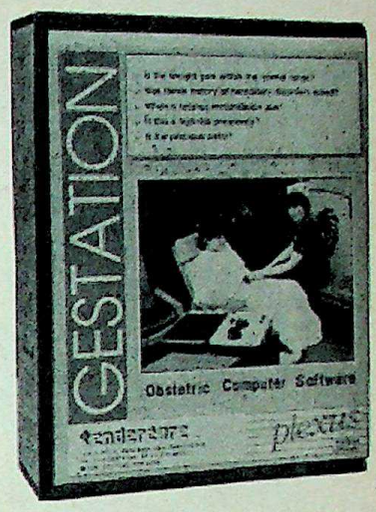
al Management System Software for 200 bed hospital. **Price:** Rs 100,000..400,000 **Vendor:** Al Soft **RQS#** 72466

ital+ 1.0 Integrated hospital information management system. Includes admission, billings, discharge summary and so on. **Price:** Rs 40,000 **Vendor:** CyberMed Solutions **RQS#** 72467

are Hospital administration management software, with OPD and IPD records, bed status, billing transfers, MIS reports, etc. **Price:** Rs 20,000 **Vendor:** VM Meditech Services **RQS#** 72468

en 1.0 Intregrated hotel management software with accounting and inventory modules. **Price:** Rs 15,000..17,500 **Vendor:** Meeraa Systems **RQS#** 72469

Management System General purpose software for hotel, reservations, billing and guest database etc. **Price:** NA **Vendor:** Ram Mohan **RQS#** 72470



An application aimed at obstetricians, for recording and analyzing case histories

SOFTWARE
VERTICAL APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CAN I CREATE MUSIC WITHOUT USING A SOUND CARD?*

PC Quest. A friend that' s as close as your system. It offers you a forum to exchange points and counterpoints, reach out to online solutions to your problems, share information and of course get to know all about what the market offers you. PC Quest. It' s unmissable!

THE PERSONAL COMPUTING MAGAZINE
PC QUEST

THE USER'S VERY OWN MAGAZINE

*Authentic Reader Query

Cyber Media India Ltd. 701, Meghdoot Bldg.,
Nehru Place, New Delhi-19. Ph. : 6476664, 6416315

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Management System Ver.3.10 Provides guest reservationcheck-in/out, guest billing, room service, guest history etc. **Price:** Rs 14,900 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 72471

Resource Management System Integrated payroll management sytstem. **Price:** Rs 59,950 **Vendor:** Bitech **RQS#** 72472

touch Software package for human resource management covering personnel and recruitment appraisal. **Price:** Rs 32,000 **Vendor:** Ashok Leyland Information Technology **RQS#** 72473

Investment management package which manages shares, stock market transactions, transfers, redemptions, delivery and badla trading. **Price:** Rs 9,950 **Vendor:** Cybersoft **RQS#** 72474

Patient Base 1.0 Software for psychiatrists and research institutes. **Price:** Rs 4,995 **Vendor:** ION Software Solutions Pvt Ltd **RQS#** 72475

Ophthalmology software with OPD management, history, visual acuity and diagnosis, prescriptions, appointment and surgery scheduling. **Price:** Rs 11,800 **Vendor:** VM Meditech Services **RQS#** 72476

Helps in finding equivalents of an IC with given specifications. **Price:** Rs 500..100,000 **Vendor:** Shreeji Computer Services **RQS#** 72477

Software for custom house agents and companies importing material. Produces bill of entry, shipping bills and other documents and reports. **Price:** Rs 15,000 **Vendor:** Softlink Services **RQS#** 72478

Hospital management package addressing medium to large hospitals. **Price:** Rs 500,000..6,000,000 **Vendor:** Kale Consultants Pvt Ltd **RQS#** 72479

Online hotel automation software. **Price:** Rs 400,000 **Vendor:** CG-VAK Software & Exports Ltd **RQS#** 72480

Factory Management Info System Package for manufacturing units. Consists of MRP, production planning, inventorycontrol, QC, sub-contract, sales, purchase, financial and human resource management modules. **Price:** Rs 2,00,000 **Vendor:** Brainwave (India) Pvt Ltd **RQS#** 72481

Hospital Information System 3 Software for managing hospital registrations, billing, enquiry, medical records, etc. **Price:** Rs 90,000 **Vendor:** Amrita Institute Of Computer Technology **RQS#** 72482

2.5 on DOS/Windows Back office solution for share brokers. **Price:** Rs 13,500..27,000 **Vendor:** CG-VAK Software & Exports Ltd **RQS#** 72483

ell 2.0 Software specially designed for agents, investors, NRIs, brokers and tax consultants. **Price:** Rs 500 **Vendor:** Shreeji Computer Services **RQS#** 72484

aster 1.0 Software on capital issues. Offers all rules and regulation related to capital issues. **Price:** Rs 29,700 **Vendor:** Alp Hi-Tech Information **RQS#** 72485

1.0 Online package to manage finance and inventory for the yarn industries. **Price:** Rs 15,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 72486

3.0 Income Tax software. **Price:** Rs 13,500 **Vendor:** Keypro Plus **RQS#** 72487

ent For LIC agents and development officers to track policy details, policy holders, premiums and commisions. **Price:** Rs 5,000 **Vendor:** Cadus International **RQS#** 72488

ide 1.0 Software for LIC agents. Informs users about all LIC schemes. Upgrades available free. **rice:** Rs 500 **Vendor:** Shreeji Computer Services **RQS#** 72489

aster Software for LIC agents, with calculator, letter writer. Genrates commissions, premiums and olicies. **Price:** Rs 6,000 **Vendor:** Hi-Tech Info Systems **RQS#** 72490

ws 2 Useful for LIC agents, NRI investors, share brokers etc. Upgrades free. **Price:** Rs 500 **Vendor:** Shreeji Computer Services **RQS#** 72491

M 3 Online menuless system for LIC agents. Generates multiple reports. Password-protected. **rice:** Rs 7,000 **Vendor:** Headline Computers **RQS#** 72492

ocesse 2 Comprehensive system for LPG distributors. **Price:** Rs 15,000 **Vendor:** Processware Systems **RQS#** 72493

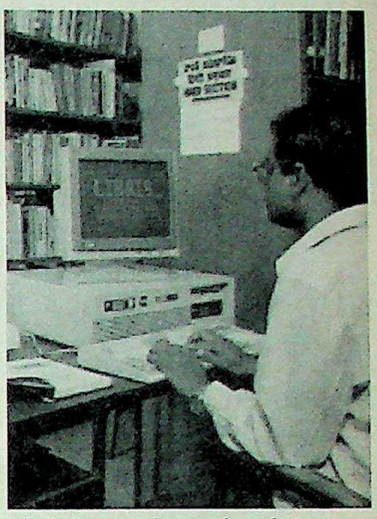
2.0 Menu-driven system for computerization of pathological labs to print reports, manage online financial accounts and MIS reports. **Price:** Rs 7,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 72494

Personal Case & Citation Info System Provides personal case management, bill and receipts. Retrieves case information—acts, laws, books, section, etc. **Price:** Rs 4,500 **Vendor:** CSAT Systems Pvt Ltd **RQS#** 72495

Pack Software for lawyers and others in the legal profession to help manage documents. **Price:** Rs 499 **Vendor:** Databank Systems **RQS#** 72496

3.0 Library management product catering to different coding structures. **Price:** Rs 60,000 **Vendor:** Lyerman Computers Pvt Ltd **RQS#** 72497

Library management software covering acquisitions, cataloguing, circulation and periodicals. **Price:** Rs 30,000..95,000 **Vendor:** Frontier Information Technologies Ltd **RQS#** 72498



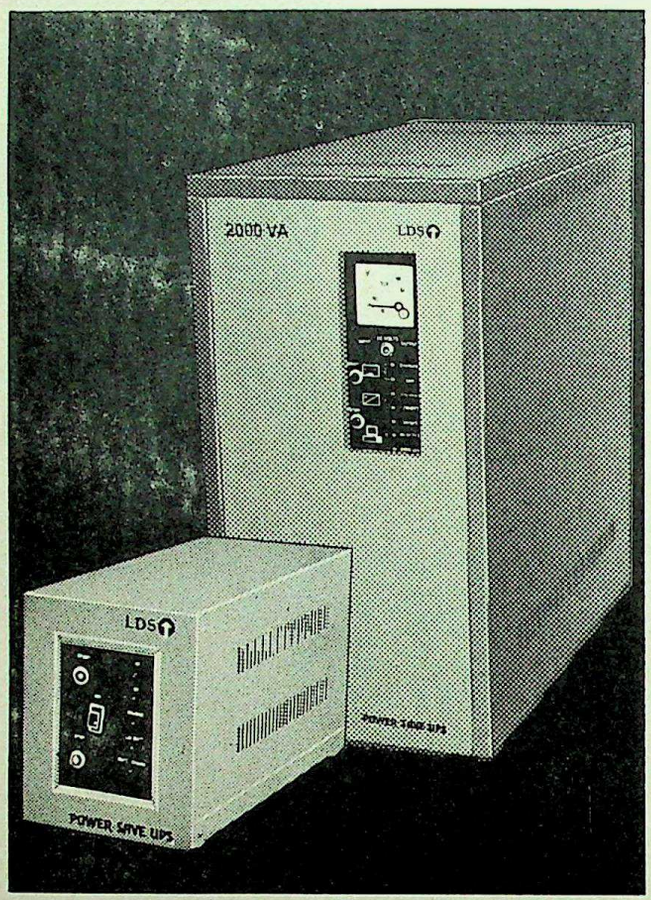
Libris is a package aimed at automating most library procedures, available on a range of platforms

SOFTWARE
VERTICAL APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHILE OTHERS WERE MAKING HIGH DECIBLE NOISE, WE WERE BUSY CONSOLIDATING & REFINING OUR PRODUCT NOW WE ARE OUT BUBBLING WITH CONFIDENCE TO OFFER OUR RANGE OF POWER CONDITIONING EQUIPMENTS



LDS

- OFF LINE UPS SYSTEMS
- ON LINE UPS SYSTEMS
- FAX UPS
- DOMESTIC INVERTERS
- SERVO VOLTAGE STABILIZER

LINEAR & DIGITAL SYSTEMS PVT. LTD.

C - 202 / 1, Mayapuri, Phase - II, New Delhi - 64
Tel: 011-5400406, 5137474, Fax: (91) - 11 - 5794617

AVAILABLE AT : **AMRITSAR** : 225043, 52012, 271042, **BANGALORE** : 3355178, 3380219, **BARODA** : 426528 **CHANDIGARH** : 693516,695516, **GURGAON** : 331342, **LUCKNOW**: 229982, 52116, 52838, **NEW DELHI** : 5792324, 5791044

DEALERS ENQUIRIES SOLICITED

An Integrated House of Power Conditioning Equipments

IMMIGRATION TO

CANADA

The best place to live in the world

CANWEST, in association with **ALLIANCE CANADA INC.,** a full service internationally Canadian Immigration consulting firm and the services of The **ACE CENTRE,** Mississauga providers of a range of immigration settlement effectively assist you in immigrating under the **PROFESSIONAL, SELF EMPLOYED, BUSI FAMILY SPONSORSHIP** categories. **ALLIA** successfully maintained a record of excellence in immigration matters and has excelled in providing services to its clientele worldwide. At present for more than 400 professional/skilled occupations

ACE CENTRE Services

At last a place that has it all!!

The **Ace Centre** provides an active database (updated several times each business day) from in your field of expertise with positive leads to also covering services such as airport pickup, arrangements, extensive **job search** and An excellent information base on skills in demand giving you an opportunity to 'hit the ground running' arrive in Canada. Please contact us at **CANWEST** the services. **ACE CENTRE** is not an Employment

CANWEST assures **REASONABLE CHARGES** appointments and high quality of professional please note that we offer **FULL MONEY GUARANTEE** if visa denied. Though, certain conditions may apply. Note that Canadian Immigration exception to Right of Landing fee is non-refundable. written **NO SUCCESS-NO FEE** policy. For information, please contact our principal consulting Canada or any of the following offices near you :

INDIA OPERATIONS
CANWEST Immigration Services Pvt. Ltd.
C-52, Nizamuddin East, II Floor,
New Delhi-110013, INDIA
Tel: (011) 461-9840
Tel/Fax: (011) 463-8333
ASHTON Consultancy Services
C-154, Defence Colony, N.D.-24
Tel: 462-4107 Fax: 463-6211,

BOMBAY OFFICE:
NIAGARA Immigration Services
Tel: (022) 204-1056
Tel/Fax: (022) 2042933

CANADIAN HEAD OFFICE
ALLIANCE (A.L.) CANADA
Suite 401, Sussex Centre
50 Burnhamthorpe Road (West)
Mississauga, Ontario L5B 3C2
CANADA
Tel: (905)-566-9000, Fax: (905)-
E-Mail: NMVL14A@prodigy.com

BANGALORE OFFICE:
IMMIGRA CANADA
Tel: (080) 222-1100
Fax: (080) 221-7573

OFFICES IN DUBAI, SRI-LANKA, PHILIPPINES, HUNGARY

Your Success Is Our Responsibility

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...r Files patient records, diagnosis, prescription, fees and surgery details. Prints prescriptions, ...gisters, certificates, bills, letters and labels. **Price:** Rs 7,000 **Vendor:** Prit Computers **RQS#** 72499

...Enterprise resource planning software for planning and monitoring utilization of manufacturing and ...terial resources of organizations **Price:** Rs 2,800,000 **Vendor:** Mastek Ltd **RQS#** 72500

...AG 1.9 Software for medical diagnostic lab management. Supports patient reports (CTSCAN; USG, ...-ray, pathology). Customization charges extra. **Price:** Rs 15,000 **Vendor:** Big Infotech **RQS#** 72501

...**Leather Industries** Monitors the flow of semi-finished products between various processes. An ...ventory control system is also integrated. Reports include order status and rejections. **Price:** Rs ...4,950 **Vendor:** Bitech (Bhari Information Technology Systems Pvt Ltd) **RQS#** 72502

...S 3.0 Automates share departments. Handles multi-company online share transfer and transmission, ...letion, transposition, duplicate certificates. **Price:** Rs 25,000 **Vendor:** IICP **RQS#** 72503

...000 Combines MRP II techniques with ISO 9000 quality control tools for creating a manufacturing ...ckage. **Price:** Rs 930,000 **Vendor:** Crescent Software Solutions **RQS#** 72504

...Improving customer service level, reducing inventory, wastage and improving productivity. **Price:** ...s 45,000 **Vendor:** Mangalya Soft-Tech Ltd **RQS#** 72505

...**terial Resource Planning** Customized material resource planning package. **Price:** Rs 50,000 ...**Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 72506

...**ster 1** Vehicle management software keeps track of maintenance and spares and is targeted at ...ge companies and defence organizations. **Price:** Rs 10,000 **Vendor:** Processware Systems Pvt ...Ltd **RQS#** 72507

...lution for custodial operations for Indian investment strategies. Addresses securities safekeeping, ...rporate actions etc. **Price:** Rs 1,500,000 **Vendor:** Datacons **RQS#** 72508

...S Manufacturing automation package targeted at organizations manufacturing discrete goods. ...ice: Rs 600,000 **Vendor:** Basawa Technologies **RQS#** 72509

...ganik Software for psychological assessment of personality, ability, intelligence, interest and ...tivational factors. **Price:** Rs 10,000 **Vendor:** PSY-COM Services **RQS#** 72510

...g Information System Marketing information system with customer information and the relevant ...tistics. **Price:** Rs 1,200 **Vendor:** Winners Commuter Services **RQS#** 72511

...map 2.2 Business geographic system developed for Indian needs. **Price:** Rs 150,000 **Vendor:** ERA ...Software Systems **RQS#** 72512

...Health 4.0 **Price:** Rs 10,000..30,000 **Vendor:** Frontier Information Technologies Ltd **RQS#** 72513

...ealth Comprehensive hospital information system for diagnostic laboratories, nursing homes and ...spitals. **Price:** NA **Vendor:** Frontier Information Technologies Ltd **RQS#** 72514

...l Requirement Planning Takes customer orders and bill of materials, gives an estimate of gross ...quirements according to the materials issued, links it to inventory and materials under receipt. ...ice: Rs 400,000...10,000,000 (Depending on the number of users and modules reqd) **Vendor:** Al ...ft **RQS#** 72515

...31 Accounting software for jewellers featuring over-the-counter sales with order booking, inventory ...ntrol, reports on item-wise stock etc. **Price:** Rs 19,000 **Vendor:** Kruti Systems **RQS#** 72516

...re 6.01 Media operations, media database, media billing reports. **Price:** NA **Vendor:** Mediaware ...Infotech Pvt Ltd **RQS#** 72517

...l Pack Assortment of software for doctors, medical practitioners, clinics and hospitals. **Price:** Rs 499 ...**Vendor:** Databank Systems **RQS#** 72518

...re Industrial health-care software with employee's medical history, treatment, hospitalisation and ...ck leave records, etc. **Price:** Rs 30,000 **Vendor:** VM Meditech Services **RQS#** 72519

...n 2 Front office and back office hotel management software, with online transfer of reservation, ...ecking, checkout, and other features. **Price:** Rs 16,000 **Vendor:** Integrated Consultants **RQS#** ...2520

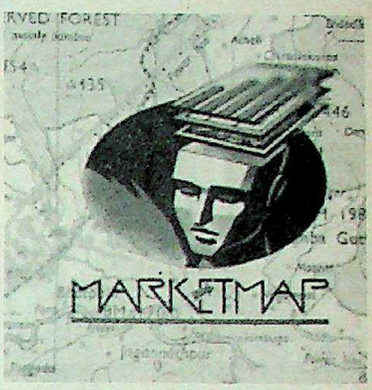
...d 1.10 For societies to keep track of member-based funds such as old age fund etc. Basic data ...out members can also be computerized. **Price:** Rs 18,500 **Vendor:** Lath Consultants **RQS#** 72521

...1 Software designed to detect the types of memories useful to doctors, police officials etc. **Price:** ...s 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72522

...Comprehensive package addressing all facets of mutual fund automation. **Price:** Rs 1,000,000 ...Vendor: Datacons **RQS#** 72523

...Foundry software that works independently or with AutoCAD. **Price:** Rs 100,000 **Vendor:** Macmet ...ia **RQS#** 72524

...ctor Manages clinic data like panel of doctors, medicine stocks and dispensing appointments, ...ment details, case-histories, visits and other vital information. **Price:** Rs 35,000 **Vendor:** Micro ...Specialties Consultancy (I) Pvt Ltd **RQS#** 72525



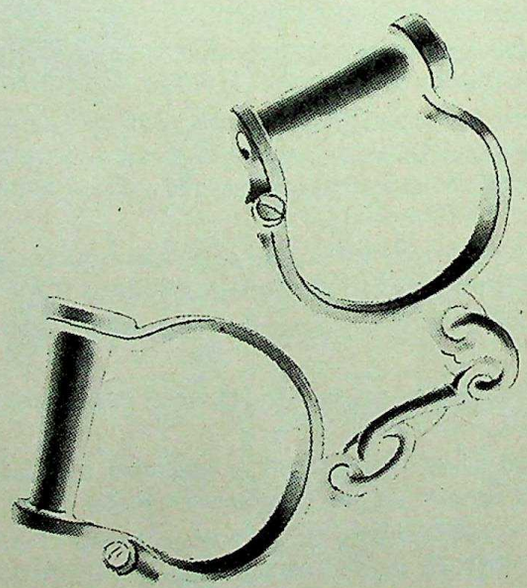
Going beyond basic GIS, packages like Marketmap 2.2 have integrated essential geography with the needs of sales and marketing

SOFTWARE
VERTICAL APPS

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

COPY SOFTWARE ILLEGALLY AND YOU COULD GET THIS HARDWARE ABSOLUTELY FREE.



Software Piracy isn't just a crime. It is a shame. Because most people, who do it are not even aware that it is illegal. The Copyright Act in India has now been amended. If you copy any software that is protected by Copyright, you could face a criminal suit, be imprisoned for three years and also pay a fine of Rs. 2 lakhs.

NASSCOM

So get the facts straight. For information about the legal software, contact NASSCOM – National Association of Software and Service Companies Anti–Piracy Hotline at (011) 6114971. After all, in a court of law, ignorance is one thing, you won't be able to plead. Software Piracy is an offence.

NATIONAL ASSOCIATION OF SOFTWARE AND SERVICE COMPANIES
 # 109, Ashok Hotel, Chanakyapuri, New Delhi-110 021

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Exhibition Tracks information on products, services, exhibitors, contact-persons and answers user queries. **Price:** Rs 10,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 72526

HRD Manages employees' service records, leave calculations, LTC management, medical reimbursement, MIS reports etc. **Price:** Rs 55,000 **Vendor:** Micro Associates Consultancy (I) Pvt Ltd **RQS#** 72527

Home Paediatrics management software with automated immunization, follow-ups, milestones, growth chart, etc. **Price:** Rs 11,800 **Vendor:** VM Meditech Services **RQS#** 72528

Automation package for educational institutions with payroll, library and store management, financial accounting, register, fees, testing, result processing, and personal organizer. **Price:** Rs 7,000 **Vendor:** Ultimedia System Associates **RQS#** 72529

Ops Operations optimisation software that addresses the operations planning of a transport organization. **Price:** Rs 60,000 **Vendor:** C-DAC **RQS#** 72530

Maker 1.0 User-friendly software for NRI investors. Upgrades free. **Price:** Rs 500..50,000 **Vendor:** Shreeji Computer Services **RQS#** 72531

Market 1.0 Comprehensive share management software targeted at brokers, sub-brokers etc. **Price:** Rs 500..150,000 **Vendor:** Shreenathji Electronics **RQS#** 72532

Multiplier 1.0 For NRI investors. Upgrades free. **Price:** Rs 500..100,000 **Vendor:** Shreeji Computer Services **RQS#** 72533

Fund Advisor 1 Helps in complete analysis of mutual funds. Useful for consultants, brokers etc. Upgrade free. **Price:** Rs 500 **Vendor:** Shreeji Computer Services **RQS#** 72534

1.0 Software designed exclusively for NRIs. Includes all schemes of LIC, GIC, UTI etc. Upgrade free. **Price:** $500..5000 **Vendor:** Shreeji Computer Services **RQS#** 72535

man 1.2 Online MIS software includes circulation, advertising, jobwork, payroll and financial accounting for newspaper industry. **Price:** Rs 45,000 **Vendor:** Softman Consultancy Services **RQS#** 72536

is 4.2 helps in computerizing library activities in universities. **Price:** Rs 30,000 **Vendor:** Nirmal Institute Of Computer Expertise **RQS#** 72537

ack 1.0 Software for maintaining clinical history of orthopaedic patients. **Price:** Rs 8,500 **Vendor:** Logic Computers **RQS#** 72538

ACC Online software for inventory, invoicing and financial accounting.Specially developed for pharmaceutical wholesalers. **Price:** Rs 9,950 **Vendor:** Softman Consultancy Services **RQS#** 72539

Portfolio management system for share transaction management. **Price:** Rs 1,250 **Vendor:** Cybersoft **RQS#** 72540

1.0 Menu-driven codeless payroll package which keeps track of employee information with periodic reports. **Price:** Rs 7,500 **Vendor:** Vinayaka Systems & Software Pvt Ltd **RQS#** 72541

1.0 Reports: I.T certificate, address book, policy register, due lists, dial directory, mode wise due list, commission list, bonus intimation, commision receivable. **Price:** Rs 8,000 **Vendor:** Parth Computer **RQS#** 72542

b 1.0 Patient investigation management software for pathological labs. Prints results and has many MIS reports. **Price:** Rs 4,000 **Vendor:** Computer Software Services **RQS#** 72543

n Computerizes the functioning of payroll in banks and medium organizations. **Price:** Rs 60,000 **Vendor:** Sysman Computers Pvt Ltd **RQS#** 72544

Payroll System Maintains pay register of multiple companies and multiple locations. **Price:** Rs 7,000 **Vendor:** Divine Computers **RQS#** 72545

S Windows based personnel management system covers all personnel activities from recruitment to resignation. **Price:** Rs 3,50,000 **Vendor:** Basawa Technologies **RQS#** 72546

S on Foxpro Personnel management system available as a single user package or multi-user under Novell Netware. **Price:** Rs 20,000..50,000 **Vendor:** Basawa Technologies **RQS#** 72547

95 Comprehensive personal information and planning system. Includes performance appraisals, loans, perquisites etc. **Price:** Rs 75,000 **Vendor:** Faculties India System Services **RQS#** 72548

Machinist Integrated design manufacturing software for 2.5 axis milling, 3axis surface machining, 2..4 axis wire EDM, 2 axis turning. **Price:** Rs 3,25,000 **Vendor:** Tata Elxsi **RQS#** 72549

Information System Suitable for HRD departments. Stores employee details, performance appraisals, salary increments, promotions history, training needs and participation, queries on employee details and MIS reports **Price:** Rs 20,000 **Vendor:** Pragati Software Pvt Ltd **RQS#** 72550

agement System Software with quality control, maintenance management, shop floor MIS and inventory modules for medium to large process manufacturing industries. Available on PowerBuilder. C/S implementation. **Price:** Rs 400,000 **Vendor:** Infonet **RQS#** 72551

e Software for maintenance management.Includes inventory stock scheduler. Based on a C/S nfironment. **Price:** Rs 55,000 **Vendor:** Hexaware Infosystems Ltd **RQS#** 72552

Branch automation apps are in demand across platforms today, with Indian banks finally taking the computerization plunge

SOFTWARE VERTICAL APPS

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

To reach out to

Nepal

try shouting from the Everest.

Or
advertise through us.

Today Nepal is a booming multi-crore I.T. market. A market that's being eyed upon by transnational and major Indian companies alike. For hardware and software. Networking and AMCs. Peripherals and Training. Today it makes perfect sense to be in Nepal. *And PC Quest, with its experience, focus and approach, is all set to take you there.*

THE PERSONAL COMPUTING MAGAZINE

PC QUEST NEPAL

Your ideal route to I.T. Nepal.

TO BOOK YOUR ADVERTISEMENTS CONTACT ANY OF THE FOLLOWING:

DELHI RACHNA: PH. 6416315, 6476664 FAX. 6411692; **BANGALORE** BHAUMIK: PH. 2861511, 2862971; **MUMBAI** CHANDAN: PH. 6427910, 6450050/51 FAX. 6403986; **MADRAS** ANIL: PH. 459498 FAX. [illegible]
HYDERABAD KRISHNA: PH. 848121 FAX. 816960; **CALCUTTA** PARTHA: PH. 2471285, 406492 FAX. [illegible]

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

AS Total branch automation solution for banks. **Price:** Rs 500,000 **Vendor:** Kale Consultants Pvt
RQS# 72553

CAS Automation software for co-operative banks. **Price:** Rs 1,000,000..5,000,000 **Vendor:** Kale Consultants Pvt Ltd **RQS#** 72554

io Advisor 1.0 User-friendly package which gives you advice on share market for over 10,000 companies. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72555

lio Analysis 2.0 For share investors. Helps in analyzing technical reports and projecting share prices. **Price:** Rs 500..13,000 **Vendor:** Shreeji Computer Services **RQS#** 72556

lio Manager Portfolio management system which allows share holdings to be classified in various ways. Has tax management functionality. **Price:** NA **Vendor:** BIT Computers **RQS#** 72557

Integrated on-line factory automation system. Includes finance, marketing, production and personnel. **Price:** Rs 1,800,000 **Vendor:** Datacons **RQS#** 72558

k Software for producing voter's identity cards using video camera. Supports multi-lingual data entry. **Price:** Rs 35,000 **Vendor:** Modular Systems **RQS#** 72559

ta 1.0 Talent detecting software based on simple objective questions. Useful for training institutes. **Price:** Rs 500..50,000 **Vendor:** Shreeji Computer Services **RQS#** 72560

um 1.0 Software for share brokers, sub-brokers, and related professionals. Upgrades free. **Price:** 500..500 **Vendor:** Shreeji Computer Services **RQS#** 72561

5.0 Menu-driven package that helps in maintaining complete patient records and child health care routines. **Price:** Rs 11,500 **Vendor:** Tender Care **RQS#** 72562

Man Keeps track of personnel data cards of all employees in any organization. It has excellent query features. **Price:** Rs 60,000 **Vendor:** Sysman Computers Pvt Ltd **RQS#** 72563

1.0 For share brokers, financial analysts and allied professionals. Upgrades free. **Price:** $500..5000 **Vendor:** Shreeji Computer Services **RQS#** 72564

ine Auto Spares Management Specialized retail management system for auto spares shops. **Price:** Rs 20,000..30,000 **Vendor:** Decision Software India **RQS#** 72565

ine Car Rental Management Specialized software for car rental businesses. **Price:** Rs 18,000..26,000 **Vendor:** Decision Software India **RQS#** 72566

ine Hospital Management Integrated online, modular hospital management system consisting of out-patient, in-patient, pharmacy and laboratory management modules. **Price:** Rs 70,000..100,000 **Vendor:** Decision Software India **RQS#** 72567

ine Hotel Management Integrated online, modular system for managing hotels. **Price:** Rs 50,000..95,000 **Vendor:** Decision Software India **RQS#** 72568

ine Restaurant Management Integrated, online, modular system for managing a restaurant. **Price:** Rs 25,000..35,000 **Vendor:** Decision Software India **RQS#** 72569

Integrated hospital management system. **Price:** Rs 35,000 **Vendor:** Zon Marketing **RQS#** 72570

2.3 Generates forms for salary, PF, bonus, loan statements and other parameters. **Price:** Rs 6,500 **Vendor:** Square Services **RQS#** 72571

-Pro Share accounting system for companies and share transfer agents. Includes new-issue management, signature scanning and statutory reports, and ROC returns. **Price:** Rs 16,000 **Vendor:** Quark Technology Pvt Ltd **RQS#** 72572

tal office automation software for regional offices of a bank. **Price:** Rs 350,000 **Vendor:** Softsolutions **RQS#** 72573

a College Administration Handles courses, fees, attendance, and student information with a special mail-merged report to parents. **Price:** Rs 23,500 **Vendor:** Raychan Sysmatics **RQS#** 72574

a Library Administration 2.0 Maintains memberships details, data on books including stocks, issues and return. **Price:** Rs 7,500 **Vendor:** Raychan Sysmatics **RQS#** 72575

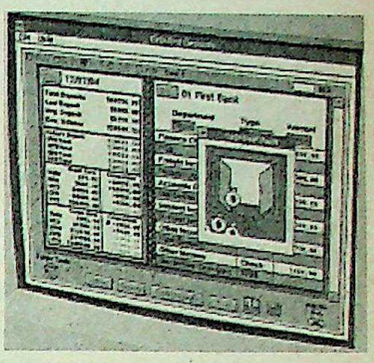
Clinical laboratory reporting system, including paediatric standards, user definable reports and features. **Price:** Rs 5,200 **Vendor:** VM Meditech Services **RQS#** 72576

Takes care of share and debenture issues, generates folio numbers, certificates, distinctive numbers, new issue management. **Price:** Rs 36,000 **Vendor:** RDK Compu Data Techniks **RQS#** 72577

r to an Issue Category -2. Generates stock exchange, ROC, and postal reports. **Price:** Rs 35,000 **Vendor:** Mangalya Soft-Tech Ltd **RQS#** 72578

Reporting system for all imaging modalities, such as ultrasound, X-ray and CT-scan with inventory and statistics. **Price:** Rs 4,800 **Vendor:** VM Meditech Services **RQS#** 72579

-share-transfer package with imaging and signature verification modules. Takes care of mergers, splitting dividend, warranty calculation and signature retrieval. **Price:** Rs 99,000 **Vendor:** Pentafour Software Exports **RQS#** 72580



Though most Indian banking apps are character-mode and run off UNIX at the back end, a range of Windows-based packages exist

SOFTWARE
VERTICAL APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ONLY PROS

Or why CA-OpenROAD is your best bet when it co

Before you make a crucial decision that will affect your organisation's functioning for life, it's only fair that you take a good look at all the options that are available to you. Fact by fact. Feature by feature.

Features	Power Objects	Power Builder 4.0	SQL Windows 5.0	CA-Open Road
Openness (RDBMS Support)	Restricted to ORACLE	Most RDBMS's	Most RDBMS's	Most RDBMS's
Organisation	ORACLE.	SYBASE	GUPTA (or CENTURA!)	COMPUTER ASSOCIATES
Turnover	$ 3.0 Billion	$ 0.9 Billion	Less than $0.2 Billion	$ 3.5 Billion
Windows Support	MS Windows 3.1	MS Windows 3.1	MS Windows 3.1	MS Windows 3.1 MOTIF X Windows

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ZERO CONS

mission-critical solutions.

After going through these
, surely you will want to know
e about CA-OpenROAD
e-vis others.

All you have to do is fill in the
pon alongside and rush it to us for
tailed comparison.

For a comparative note on FORMS 4.5, Power Builder 4.0, SQL Windows 5.0 and CA-OpenROAD, mail/fax this coupon to Bharti Sinha at Mastek Ltd., Plot No.76, Street 14, M.I.D.C., Marol, Andheri (East), Bombay-400 096. Tel: 8374669/8212240. Fax: 8212242.

Name: ----------

Company: ----------

Designation: ----------

Address: ----------

Tel: ---------- Fax: ----------

PCQ

Ingres

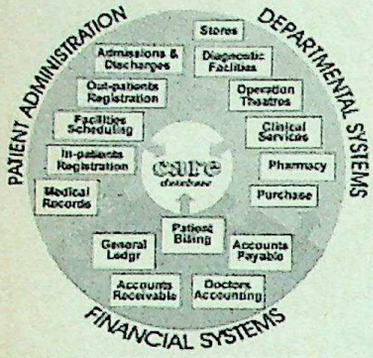
MASTEK

Mission-Critical Solutions.

Avenues M 213 96 RI

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri



Hospital management software is a critical application area that Indian medicare has been slow to adopt, except for limited billing apps

SOFTWARE
VERTICAL APPS

SHIP-FA Integrated package for shipping agencies with all the standard features of accounting plus voyage wise accounting. **Price:** Rs 18,000 **Vendor:** Syscon Computers Pvt Ltd **RQS#** 72580

San-Pharma 2.0 Package for pharmacists. Includes drugs list, calculator, telephone diary and **Price:** Rs 4,000 **Vendor:** Sanjivini Computers **RQS#** 72582

Sats Share Transfer System Can be used for in-house share transfer. **Price:** Rs 20,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 72583

Scheduler School timetable preparation software—automatic allocation, part time teachers, class, and various others. **Price:** Rs 9,500 **Vendor:** Synergy Consultancy Services **RQS#**

School 1.1 School management for managing student information tracks, fees paid or payable by students, salary statement of employees, etc. **Price:** Rs 15,500 **Vendor:** Lath Consultants **RQS#** 72585

SchoolMan 4.0 Online system for schools. Generates student records, result preparation, fee management, employee records, and payroll. **Price:** Rs 7,000 **Vendor:** Supra Computers **RQS#** 72586

Scrip Watch Corporate database of 4,000 Indian companies with financial data for last five years a fortnightly updates. **Price:** Rs 60,000 **Vendor:** Corporate and Economic Research Centre **RQS#** 72587

Scrip Watch Windows Total information package for share brokers and portfolio researchers co industry information. **Price:** Rs 40,000 **Vendor:** DART **RQS#** 72588

Seafrate Software package to store and retrieve freight rates for seabound cargo. **Price:** Rs 7,50 Softlink Services **RQS#** 72589

Semiconductor Advisor 1.0 Offers a full range of semiconductors including block diagrams, flow graphs etc. **Price:** Rs 500..255,500 **Vendor:** Shreenathji Electronics **RQS#** 72590

Semiconductor Analyzer 1.0 Software for service engineers. Free upgrades available. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72591

Semiconductor Master 1.0 Software for service engineers, research scholars etc. Deals with semiconductors. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72592

Service Information System Monitors the utilization of service engineers. **Price:** Rs 55,000 **Vendor:** School Of Computer Studies **RQS#** 72593

Service Management Service management software that plans, schedules and monitors vehicle maintenance and accounts. **Price:** Rs 7,500 **Vendor:** Brainwave (India) Pvt Ltd **RQS#** 72594

Servisys Software for total branch computerization of the service branches of a bank. **Price:** Rs 7 **Vendor:** Softsolutions **RQS#** 72595

Sevo Automation solution for the service branches of a bank. **Price:** Rs 250,000 **Vendor:** Kale Co Pvt Ltd **RQS#** 72596

SharESS Share debenture and fixed deposit management system which includes management of dividends, share parameters. **Price:** Rs 350,000 **Vendor:** Basawa Technologies **RQS#** 72597

Sharacct 2.1 Shares allotment records and share transfer management system for a public limited company. **Price:** Rs 18,550 **Vendor:** Jenish Software Consultancy **RQS#** 72598

Share Management System Share management system which handles issues, transfers and annual returns and dividend management. **Price:** Rs 20,000 **Vendor:** Gurjar Computing **RQS#** 72599

Share Market Advisors 1.0 Share management software for NRI investors. Upgrades free. **Price:** Rs 500..5,000 **Vendor:** Shreeji Computer Services **RQS#** 72600

Share Market Analyzer 1.0 Software for analyzing share market. Covers all schemes of LIC, UTI, G mutual funds etc. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72601

Share Mon 2.0 Customizable package for monitoring the sale, purchase and outstandings of share transactions. **Price:** Rs 10,500 **Vendor:** Somay Systems **RQS#** 72602

Share Port Share management package with stock analysis. **Price:** Rs 1,000 **Vendor:** Prism Cons Pvt Ltd **RQS#** 72603

Share Transfer 1.3 Package for handling share transfer and registry. Includes dividend calculations mail-merge. **Price:** Rs 18,500 **Vendor:** Shyam Computers **RQS#** 72604

Share Transfer Agent Keeps track of transfered shares. Fully open design to meet MIS requirement Supports multi-companies ideal for transfer agent. Also bar-code compatible. **Price:** Rs 12,00 **Vendor:** Mangalya Soft-Tech Ltd **RQS#** 72605

Share Transfer Package Comprehensive software which handles share management of all listed companies. **Price:** Rs 35,000 **Vendor:** Softsolutions **RQS#** 72606

Sharebrokers Pack Shareware for stock and portfolio management. **Price:** Rs 499 **Vendor:** Datatech Systems **RQS#** 72607

Shareholder Details Generates share holder details as required by Registrar of companies. **Price:** Rs 15,000 **Vendor:** ASCII Computers **RQS#** 72608

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...man Computerizes the whole share department of any co-operative bank. **Price:** Rs 60,000 **Vendor:** Sysman Computers Pvt Ltd **RQS#** 72609

...soft 9.1 Multi-exchange, multi-user FA package for share brokers. Compatible with NSE systems. **Price:** Rs 30,000 **Vendor:** Allsoft Computer Consultants **RQS#** 72610

...Expo Shipping and export documentation package. **Price:** Rs 25,000 **Vendor:** Wye Enterprises **RQS#** 72611

...y **Portfolio Analysis 2.0** Software for portfolio analysis, targeted at financial sectors. Upgrades free. **Price:** Rs 500..13,000 **Vendor:** Shreeji Computer Services **RQS#** 72612

...Master 1.0 Helps in signature analysis. Useful for banks. Available in all Indian languages. **Price:** Rs 500..500,000 **Vendor:** Shreeji Computer Services **RQS#** 72613

...ture Analyzer 1.0 Based on graphology and is very useful for banks and recruitment agencies. **Price:** Rs 500..50,000 **Vendor:** Shreeji Computer Services **RQS#** 72614

...t Signature storage retrieval and verification system. **Price:** Rs 30,000 **Vendor:** Square-D Electricals **RQS#** 72615

...tar Signature storage and retrieval system. Stores signatures, thumb impressions and photographs. Uses efficient image compression. **Price:** Rs 15,000 **Vendor:** Charly Computers **RQS#** 72616

...m Bilingual banking software system exclusively developed for the rural and urban banking sector. **Price:** Rs 250,000 **Vendor:** Square-D Electricals **RQS#** 72617

...are Computerized share processing software integrated with signature data scan, store, retrieve and display software. **Price:** Rs 60,000 **Vendor:** Square-D Electricals **RQS#** 72618

...Bank Retail banking application software. Calculates interest on bank accounts. **Price:** Rs 36,000 **Vendor:** Accountronics **RQS#** 72619

...MRP For a manufacturing company, especially in the pharmaceutical sector. **Price:** Rs 650,000 **Vendor:** ACS Technologies Ltd **RQS#** 72620

...tDeal CS Portfolio management software package. **Price:** Rs 30,000 **Vendor:** Ashok Leyland Information Technology **RQS#** 72621

...Fund Software for mutual fund management. **Price:** Rs 500,000 **Vendor:** Ashok Leyland Information Technology Ltd **RQS#** 72622

...School School automation package with modules for fee receipt and accounting. **Price:** Rs 22,000 **Vendor:** Prit Computers **RQS#** 72623

...rist Complete online library system for lawyers. Password protected. **Price:** Rs 6,800 **Vendor:** Headline Computers **RQS#** 72624

...ney Software for total automation of authorized currency exchanges. **Price:** Rs 25,000..40,000 **Vendor:** Softsolutions **RQS#** 72625

...t 2.0 Inventory system for textile machinery. Supports issues, receipts, pending orders and cash receipts. **Price:** Rs 4,500 **Vendor:** Logic Computers **RQS#** 72626

...re for Banking Operations Covers requirements of urban cooperative banks including savings banks. **Price:** Rs 600,000...18,000,000 (depending on the number of users and modules reqd) **Vendor:** Al Soft **RQS#** 72627

...re for Schools For financial accounting, payroll, in schools, various reports. **Price:** Rs 3,500..4,500 **Vendor:** Navrang Software **RQS#** 72628

...m Comprehensive on-line hospital administration and management system. **Price:** Rs 50,000 **Vendor:** Faculties India System Services **RQS#** 72629

...e Management System Spares distribution management software, which maintains optimum stock with automatic generation of indents and expedites supplies. **Price:** Rs 7,500 **Vendor:** Brainwave (India) Pvt Ltd **RQS#** 72630

...ist for Windows Hospital management software. **Price:** Rs 50,000 **Vendor:** Internet Systems **RQS#** 72631

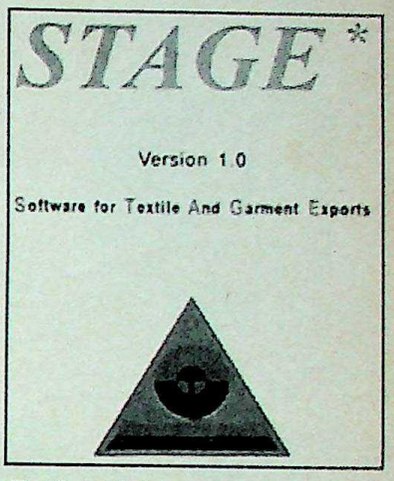
...Goods management system for a road transporter. **Price:** NA **Vendor:** Internet Systems **RQS#** 72632

...k Specially designed package for covering functional aspects of a spinning mill. **Price:** NA **Vendor:** Peacock Software **RQS#** 72633

...1.0 Software for textile and garment exports. Windows based multiuser versions available. **Price:** ...4 **Vendor:** Eco Tech **RQS#** 72634

...1.0 Software for brokers and sub-brokers. Generates all statutory reports for SEBI, income tax, service tax, MIS and accounting. **Price:** Rs 12,500..14,500 **Vendor:** Spring Time Softwares Pvt Ltd **RQS#** 72635

...ux For supermarkets and retail outlets. **Price:** Rs 40,000 (DOS), 120,000 (25 users) **Vendor:** Cactus International **RQS#** 72636



Textile and garment makers are a major potential consumer of PC apps, though there are as yet few relavant integrated apps for them in India

SOFTWARE
VERTICAL APPS

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

CONNECT INDIA

THE COMMUNICATIONS EXPO FOR THOSE WITH A MISSION.

The rapid growth in the Indian Communications industry is a clear pointer to the potential India holds. But how do you reach out to this growing market? How do you interact with the vast segment that could use your products & services?

Presenting CONNECT INDIA '96 for you to display and interact with the Indian buyers & users of Telecom, Datacom & Officecom products and services. Right in the throbbing capital of the nation. During the pleasant month of September. Meet the cream of Indian business - top executives, administrative heads, Government functionaries and policy makers.

This second show of CONNECT INDIA comes to you from the IETE-CYBEREXPO combine. IETE is an advisory body to the Government of India & the proponent of the National Telecom Policy for 1992-93. CYBEREXPO is the organizer of the much sought after PC EXPOs and CSI exhibitions.

Taj Palace, New D
September 29 - October 1,

CONNECT INDIA

CYBEREXPO
A Division of Cyber Media (India) Ltd.

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS
IETE

PREMIUM STALL POSITIONS AVAILABLE

Contact the office nearest you: **DELHI** YOGESH: PH. 6416315, 6476664 FAX. 6411692; **BANGALORE** BHAUMIK: PH. 2868238 FAX. 2862971; **MUMBAI** CHANDAN: PH. 6427910, 6450050/51 FAX. 6403986; **MADRAS** ANIL: PH. 8252828; **HYDERABAD** KRISHNA: PH. 848121 FAX. 816960; **CALCUTTA** PARTHA: PH. 2471285, 406493 FAX.

CC-0. In Public Domain. Panini Kanya Maha Vidyalaya Collection. Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...Factory management software for production scheduling, multi-level bill of materials, ...C,inventory control and purchase. **Price:** Rs 25,600 **Vendor:** Proactive Information Systems **RQS#** 72637

...ty Gold It makes application of SPC to any process simple. Features include real-time monitoring, ...configurable chart displays etc. **Price:** Rs 42,500 **Vendor:** Abcon Information Systems **RQS#** 72638

...RO Production control and cost analysis system for leather manufacturers. **Price:** Rs 12,000 **Vendor:** Accountronics **RQS#** 72639

...Tax Deduction at Source TDS software, can be linked to payroll. **Price:** Rs 10,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 72640

...rdwell 3.1 Patient database management system which is applicable for X-ray or ultrasonography clinic or pathology lab. **Price:** Rs 6,500 **Vendor:** Saransh Technologies **RQS#** 72641

...T 4.5 For societies receiving foreign donations. Supports all financial reports including those required under FCR Act and by Home Ministry. **Price:** Rs 18,500 **Vendor:** Lath Consultants **RQS#** 72642

...LE 5 Time-table software for schools, with customized and automatic features for assignment, distribution, allocation, etc. **Price:** Rs 9,500 **Vendor:** Significant Software Solutions **RQS#** 72643

...A comprehensive software for placement agencies. **Price:** Rs 20,000 **Vendor:** Pragati Software Pvt Ltd **RQS#** 72644

...Super 96S Software for tax practitioners. Helps in tax computations and preparation of returns. Covers IT Act and Wealth Tax Act. **Price:** Rs 6,500 **Vendor:** Premier Computers and Consultancy Services **RQS#** 72645

...k Tea plantation management system—consists of interlinked modules on financial accounting, inventory control, budgeting, payroll etc. **Price:** Rs 65,000 **Vendor:** Interactive VITA Pvt Ltd **RQS#** 72646

...ss 1.0 Integrated operational support system for PSTN, cellular and pager service operators. **Price:** NA **Vendor:** QED Software Systems **RQS#** 72647

...s Software for textile processing and printing industry. Maintains inventory and costing of all processes. **Price:** Rs 18,000 **Vendor:** Accountronics **RQS#** 72648

...ta Quota management software for textile and garments exporters. **Price:** Rs 7,500..12,000 **Vendor:** Softsolutions **RQS#** 72649

...ker Branch automation software for banks, with graphical MIS tools, signature verification and passbook printing. **Price:** NA **Vendor:** Hiranandani Developers Pvt Ltd **RQS#** 72650

...der Integrated package for construction companies.Modules for FA,inventory control, costing and ...e, loan and site administration. **Price:** NA **Vendor:** Hiranandani Developers Pvt Ltd **RQS#** 72651

...ye Analyzes stock price movement using sophisticated charting tools such as moving averages, ...chastics etc. **Price:** Rs 50,000 **Vendor:** Faculties India System Services **RQS#** 72652

...ble Generator for Schools 1.0 Menu based system for generating school time tables. **Price:** Rs ...200 **Vendor:** Aritra Chakravarty **RQS#** 72653

...r 3.0 Share transfer system for on-line updation of transfers. ROC and MIS reports, warrants and ...alling labels **Price:** Rs 20,000 **Vendor:** Sacred Step Data Network & Infotech Ltd **RQS#** 72654

...1.0 Designed for online truck movement monitoring. Optional accounting module. **Price:** Rs ...5,000..22,500 **Vendor:** Meeraa Systems **RQS#** 72655

...4000 Software for inter-banking financial transactions. **Price:** Rs 25,000 **Vendor:** Transmatic ...ystems Ltd **RQS#** 72656

...ack Comprehensive package, ideal for travel agents and tour operators. **Price:** Rs 10,000 **Vendor:** ...C India **RQS#** 72657

...de 1.0 Software guide specially designed for UTI agents. Covers all UTI schemes. Upgrades free. ...rice: Rs 500 **Vendor:** Shreeji Computer Services **RQS#** 72658

...r 4.0 Share transfer system for share holders. Provides covering letters, annual reports, splitting and consolidation of certificates etc. **Price:** Rs 25,000 **Vendor:** VJ Infosystems Ltd **RQS#** 72659

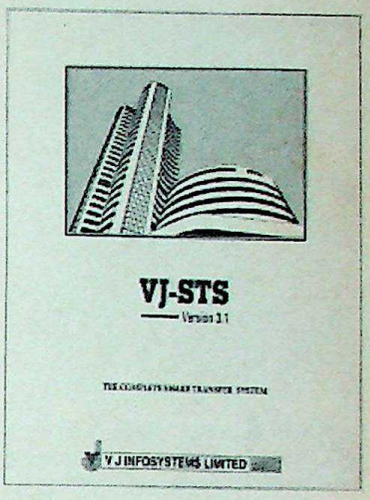
...em 1.0 Hotel management software that manages room billing, restaurant billing, accounts etc. ...rice: Rs 12,000 **Vendor:** Root Computers **RQS#** 72660

...Insurance Software for insurance valuers. Generates spot inspection, damages, estimates and other respective reports. **Price:** Rs 4,000 **Vendor:** Syscon Computers Pvt Ltd **RQS#** 72661

...Sales & Stock The product starts at the proforma invoice stage: booking ofvehicles, amounts received, remittances to bank,purchase invoices, stock updation, allotments, online invoices and other reports. **Price:** Rs 35,000 **Vendor:** School Of Computer Studies **RQS#** 72662

... Geographical information system with SQL database. **Price:** Rs 305,000 **Vendor:** Inventa Software ...QS# 72663

... Share issue and management package. Has scanner support, for signature verification. **Price:** ...20,000 **Vendor:** Divergent Information Technologies Pvt Ltd **RQS#** 72664



Applications such as share transfer systems are a natural for PC platforms

SOFTWARE
VERTICAL APPS

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

WHAT ARE YOU DOING THURSDAY NIGHT, 10.30?

(WE'LL DROP-IN AT YOUR PLACE.)

COMPUTERS FOR YOU

THE DQ TV PRESENTATION EVERYONE IS SITTING UP TO WATCH

ON DD METRO CHANNEL
EVERY THURSDAY AT 10.30. P.M.

In this viewer-friendly programme,
learn for yourself the amazing benefits
computers are providing in every walk of life !

And then there's always the **quiz** for you to win attractive prizes!

CORRECT ANSWERS TO THIS QUIZ WILL ENTITLE YOU TO FIRST PRIZE: MODEM (1 No.), SECOND PRIZE: WINDOWS 95 TUTORS (2 Nos.), THRID PRIZE: DUMMIES BOOKS (15 Nos.), AND 100 FULL YEAR'S SUBSCRIPTIONS TO DATAQUEST!!

DQ TV

PROGRAMME SPONSORED BY:

WORLDWIDE TECHNOLOGIES LTD.

ORACLE

APTECH

CHECK LOCAL LISTINGS FOR TELECAST TIMINGS. ALL LOGOS, TRADEMARKS APPEARING ABOVE ARE PROPERTY OF RESPECTIVE OWNERS.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Designed for professional portfolio managers, managing multi-currency investment portfolios of large net-worth clients, etc. **Price:** Rs 99,999 **Vendor:** RDK Compu Data Techniks **RQS#** 72665

Package for export documentation management. Handles exports from order stage to realisation. **Price:** Rs 7,500 **Vendor:** Softlink Services **RQS#** 72666

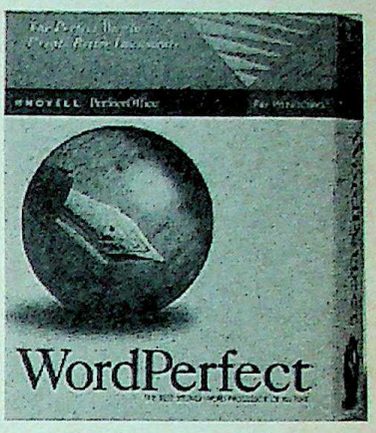
Software for managing back-office requirements of stock brokers. Allows interface with all existing screen-based trading systems in India. **Price:** Rs 40,000..50,000 **Vendor:** Mastek Ltd **RQS#** 72667

2.0 Windows based multiple exchange software addressing the automation needs of stock brokers. **Price:** Rs 45,000 **Vendor:** Zyfax Sytems Pvt Ltd **RQS#** 72668

1.0 Designed for money-changers. With it automation of various over-the-counter operations can be done. **Price:** Rs 45,000 **Vendor:** Zyfax Sytems Pvt Ltd **RQS#** 72669

1.0 Windows based system for shipping agencies. Different modules include global container tracking, import and export of cargo bills etc. **Price:** Rs 50,000 **Vendor:** Zyfax Sytems Pvt Ltd **RQS#** 72670

2.0 Export/Import documentation and management system. **Price:** Rs 18,000 **Vendor:** Micro Vision **RQS#** 72671



Though Word rules the Windows word processor market, WordPerfect is making a comeback

WORD PROCESSOR

Multilingual word processor with transliteration and spell checker for Hindi, Marathi and Gujarati. **Price:** Rs 4,000 **Vendor:** C-DAC **RQS#** 72672

Multilingual Collection A collection of multilingual word processors. **Price:** Rs 299 **Vendor:** Databank Systems **RQS#** 72673

Word Processors Collection A collection of word processors. **Price:** Rs 899 **Vendor:** Databank Systems **RQS#** 72674

cript Bilingual word processor with mouse interface, 85 fonts, supports all printers, TTF and ATM fonts. **Price:** Rs 4,800 **Vendor:** Softview **RQS#** 72675

P Multi-lingual word processor. **Price:** Rs 10,000 **Vendor:** C-DAC **RQS#** 72676

++ Bilingual word processor for English to Malayalam transliteration. With customized key mapping from three options. **Price:** Rs 2,800 **Vendor:** The Softhouse of Information Technology **RQS#** 72677

Word 6 Word processor. **Price:** $330 **Vendor:** Ultimedia System Associates **RQS#** 72678

Script 2 Bilingual and trilingual word processor. Can be used as an Indian language text editor by DTP users. **Price:** Rs 4,000 **Vendor:** Infonet **RQS#** 72679

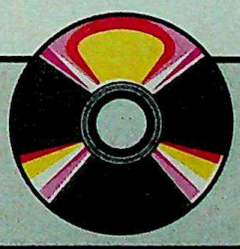
Wordsworth Bilingual word-processor to print DTP-quality English and Indian language scripts on a DMP. **Price:** Rs 10,000..25,000 **Vendor:** Computer Vision Laboratories **RQS#** 72680

Write Windows based word processor for Indian language scripts with scalable fonts. **Price:** Rs 10,000 **Vendor:** Computer Vision Laboratories **RQS#** 72681

Perfect 6.1 A word processing software with grammar check, file finder, fonts, and powerful graphics handling capabilities. **Price:** Rs 13,950 **Vendor:** Wipro Ltd **RQS#** 72682

PC QUEST

PCQ LABS PRODUCTS DATABASE



The Definitive Guide to Personal Computing Products

The PCQ Labs Products Database will help vendors make product details available to a wider audience. This database will become the most complete and comprehensive reference directory available for personal computing products.

To make sure that this database includes your product, complete the form on page 223 (or a photocopy) in this issue, and mail it to us. Make sure you include a product brochure, a good visual, the specification and the list price.

The PCQ Labs Products Database will be published in print form in the July issue of PC Quest, and will also be available via the Internet and on CD-ROM.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

IT Majors flag off CSI-96.

Can you afford to be left out ?

Certainly not. For, **CSI-96** is the IT Exhibition where the action is. What with major IT companies like Compaq, Intel, Wipro, Digital, Citil etc already having confirmed participation. Not without reason.

For, the 1st time in India **CSI-96** brings forth focussed pavillions for Manufacturing, Banking & Finance, Media, Communications, Internet, Home PC and one for Spectrum.

Add to this, **CSI - 96** is the largest User event of ' 96, ensuring a large number of qualified visitors from across industries. Thus enabling specialists, EDP managers & decision mak interact with you and strike lucrative deals. That's not all, **CSI-96** offers seminars & confer in synergy with the exhibition focus on in pavillions.

Located at the sprawling Palace grou the Silicon Valley of India, Bangalore, from 30th to 3rd Nov., **CSI-96** is where you ought t Don't you agree. Call Now and get set for the the IT event of the year.

Visit the CSI-96 Home Page http://www.indiaexpress.com/csi

COMPUTER SOCIETY OF INDIA ESTD 1965

CSI-96

The Power of Focus

Rush in your stall booking TODAY !

For Stall Bookings & more details, contact : Show Managers CYBEREXPO

BANGALORE	DELHI	HYDERABAD	MADRAS	CALCUTTA	MUMBAI
TEL: 2861511, 2868238	TEL: 6416315, 6476664	TEL: 848121	TEL: 459498	TEL: 2471285, 406492, 406810	TEL: 64
FAX: 2862971	FAX: 6411692	FAX: 816960	FAX: 8252828	FAX: 408423	FAX: 64

OR

UNIVERSAL EXPOSITIONS

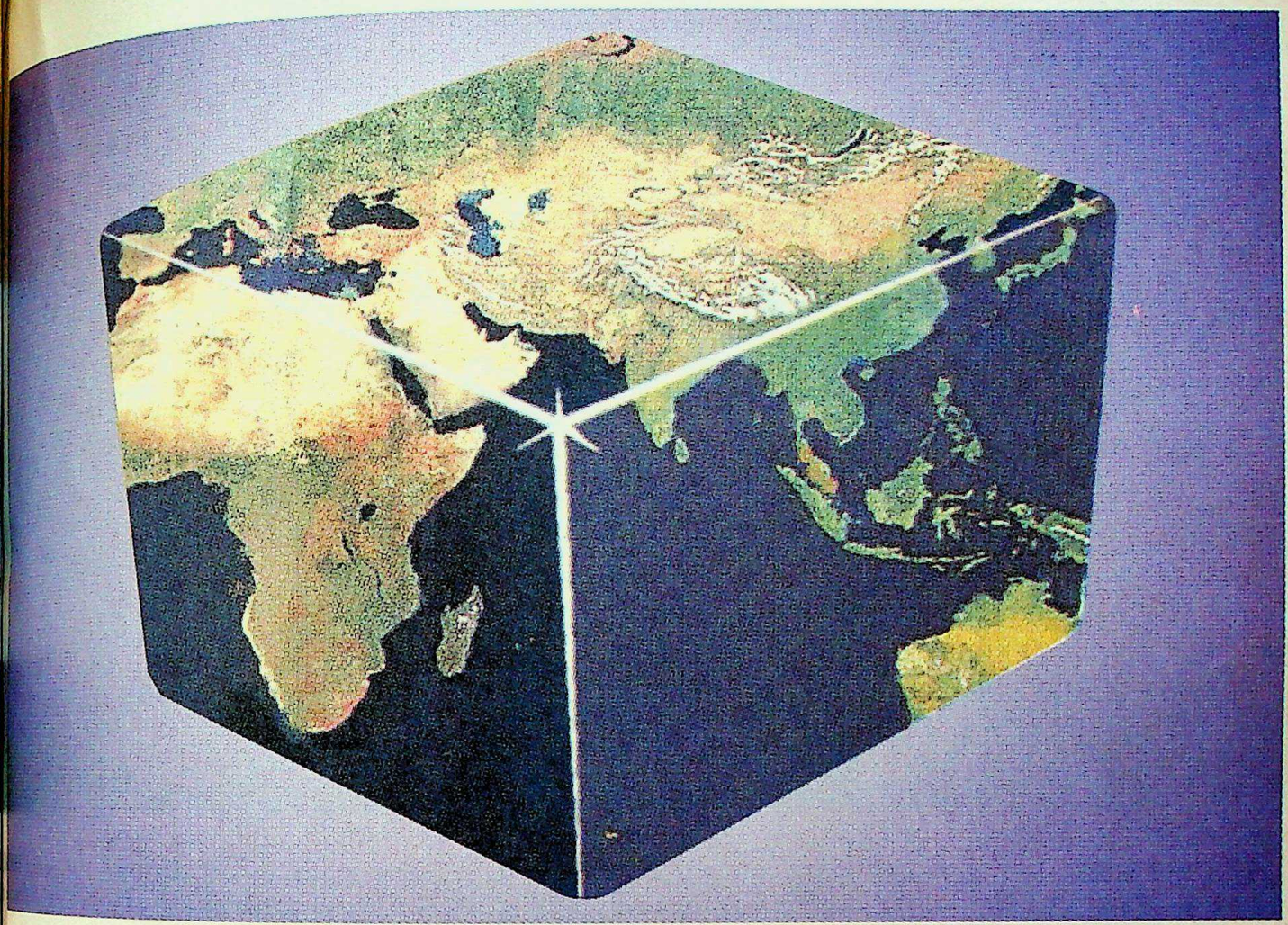
H-8, NOOTAN NAGAR, GURU NANAK ROAD, BANDRA (W), MUMBAI-400 050. **TEL:** 6410449, 6421405, 6451479 **FAX:** 6410

All Trademarks are of their respective owners

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Communications in the business world are taking a new shape.



Artec Scanners present the power of visual communication

Even your everyday printed document can say a lot about your company. And in the world of corporate communications latest electronic equipment from Rifox helps you keep pace with changing technology.

Rifox brings you the most sophisticated and comprehensive range of affordable scanners that can change the way you communicate. Because with the help of these scanners you can scan any image of your products, graphs, illustrations, diagrams etc. and incorporate them in your document. Just imagine how attractive your sales literature, presentation, quotations and estimates will look... in fact attractive enough to help you solicit new business without much effort.

Major Applications:

Documents archiving * Desk top publishing * Professional publishing Presentations * Designing glow signs *Multimedia * Ad Agencies

For a FREE demonstration of what more Rifox equipment can do for you, call or Fax your enquiries to our office.

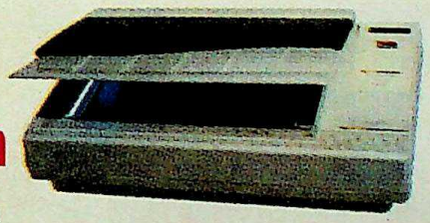
Bombay Branch : Tel: 6332831 Pager: 9628580318

Distributors:

BARODA: Peripherals India Tel: 331191,321310

MADRAS: Trends Systems & Technologies Pvt. Ltd. Tel: 8523078, 8520645

Enquiries solicited from Distributors, OEMs and Dealers.



ViewStation A6000C/PLUS

- ✦ 16.8 million colours
- ✦ 2400/4800 dpi
- ✦ Cold cathode lamp - 30 times longer life
- ✦ True natural colours
- ✦ Intelligent LCD panel
- ✦ High Speed
- ✦ Large scanning area : 8.5" x 14"

ViewScan/ grey 64 - 256

- ✦ 256 gray scales
- ✦ 800 dpi

ViewScan/ Colour 16M

- ✦ 16.8 million colours
- ✦ 1600/3200 dpi

✦ Patented Auto Missing Line Detection & Compensation

Visit us at Stall no. 20A at "OFFICEX 96", Nehru Centre, Mumbai from 23rd Aug '96 to 25th Aug '96

ARTEC RIFOX

An ISO 9001 Company

Exclusive collaborator in India

RIFOX EQUIPMENTS PVT. LTD.

(ELECTRONICS DIVISION)

1117, Surekh Building, University Road, Pune - 411 016. INDIA.

Tel.: 0212 - 357052, 357145; Fax: 0212 - 353847.

RAY/96

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

The *IT* Majors have packed their bags for CSI-96

Will you be left behind ?

Certainly not. For, **CSI-96** is the IT Exhibition where the action is. What with major IT companies like Compaq, Intel, Wipro, Digital, Citil etc already having confirmed participation. Not without reason.

For, the 1st time in India **CSI-96** brings forth focussed pavillions for Manufacturing, Banking & Finance, Media, Communications, Internet, Home PC and one for Spectrum.

Add to this, **CSI - 96** is the largest User event of ' 96, ensuring a large number of qualified visitors from across industries. Thus enabling specialists, EDP managers & decision makers interact with you and strike lucrative deals That's not all, **CSI-96** offers seminars & conferences in synergy with the exhibition focus on indi pavillions.

Located at the sprawling Palace grounds the Silicon Valley of India, Bangalore, from 30th to 3rd Nov., **CSI-96** is where you ought to Don't you agree. Call Now and start packing bags for the IT event of the year.

Visit the CSI-96 Home Page http://www.indiaexpress.com/csi

COMPUTER SOCIETY OF INDIA ESTD 1965

CSI-96

The Power of Focus

Rush in your stall booking TODAY !

For Stall Bookings & more details, contact : Show Managers CYBEREXPO

BANGALORE	DELHI	HYDERABAD	MADRAS	CALCUTTA	MUMBAI
TEL. 2861511, 2868238	TEL: 6416315, 6476664	TEL: 848121	TEL: 459498	TEL: 2471285, 406492, 406810	TEL. 6410449, 6421405, 6451479
FAX: 2862971	FAX: 6411692	FAX: 316960	FAX: 8252828	FAX: 408423	FAX: 6414063

OR

UNIVERSAL EXPOSITIONS

H-8, NOOTAN NAGAR, GURU NANAK ROAD, BANDRA (W), MUMBAI-400 050. **TEL:** 6410449, 6421405, 6451479 **FAX:** 6414063

All Trademarks are of their respective owners

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

(For office use)

PCQ LABS PRODUCTS DATABASE

The Definitive Guide to Personal Computing Products

This comprehensive product database, is preserved and referred to, through the year.
To make sure that your product isn't omitted, complete this form and mail it to our regional office (address overleaf)
Ensure that you attach the product brochure, a good visual, price, and give all the specs
Use a separate form (or photocopies) for each product

Complete this form using block letters, one to a box. Do not use capitals unless necessary.
Incomplete forms or forms with multiple products will be rejected.

oduct Details

oduct Name

sion (if part of name) . . Type HARDWARE SOFTWARE

e (including Excel, CST and excluding local taxes and octroi) Currency

el description (not exceeding 15 words)

stem Requirements

(Tick all applicable)

omputer Type ❒ Pentium ❒ 486 ❒ 386 ❒ Mac ❒ PowerPC ❒ Other

imum Requirement (MB) RAM: HDD:

perating System ❒ Win NT ❒ Win 3.x ❒ Win 95 ❒ DOS ❒ Netware ❒ OS/2

❒ Mac OS ❒ UNIX ❒ Other

ndor Details

ne

ntact Person

dress-1

y Pin

lephone and

x STD Code 0

ail

(Please attach your business/visiting card, if available, with this form)

I declare that the information in this form is complete and correct, and will be valid until December 1996. Prices given will stand until we send necessary revisions.

(Signature with company seal)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Product Category (Tick one only, that describes the product best)

Hardware

Accessories
- ❒ Add-on cards
- ❒ CD-ROM drives
- ❒ Keyboards
- ❒ Monitors
- ❒ Pointing devices
- ❒ Hard disk drives
- ❒ Other storage devices
- ❒ Multimedia kits
- ❒ Others

Computers
- ❒ Desktops
- ❒ Portables
- ❒ Servers
- ❒ Others

Datacom
- ❒ Modems (Internal)
- ❒ Modems (External)
- ❒ Modems (PCMCIA)
- ❒ Internet/WWW
- ❒ Others

Networking
- ❒ Cards
- ❒ Hubs
- ❒ Routers

Power Conditioning
- ❒ CVT
- ❒ UPS
- ❒ Other
- ❒ Others

Printers
- ❒ Dot matrix
- ❒ Inkjet
- ❒ Laser
- ❒ Line
- ❒ Plotter
- ❒ Thermal
- ❒ Consumables
- ❒ Others

Scanner
- ❒ Flat bed
- ❒ Hand held
- ❒ Drum
- ❒ Other

Test Equipment
- ❒ Network
- ❒ Power
- ❒ Other

Others
- ❒ Furniture
- ❒ Others

Software

Business Applications
- ❒ Accounting
- ❒ Inventory
- ❒ Payroll
- ❒ Shares
- ❒ Specific Business
- ❒ Project Management
- ❒ Others

Multimedia/ Graphics
- ❒ Animation
- ❒ Authoring Tools
- ❒ DTP
- ❒ Graphics
- ❒ Presentation
- ❒ Sound
- ❒ Video
- ❒ Utilities
- ❒ Others

Design
- ❒ CAD
- ❒ CAM
- ❒ Utilities
- ❒ Others

Datacom
- ❒ Communication
- ❒ Email
- ❒ Others

Games
- ❒ Arcade
- ❒ Simulation
- ❒ Others

Networking
- ❒ Server
- ❒ Utilities
- ❒ Others

Office Automation/ Productivity
- ❒ Spreadsheet
- ❒ Database
- ❒ Suites
- ❒ Office Manager
- ❒ Word processor

Development Tools
- ❒ Languages
- ❒ Utilities
- ❒ Others

System Software
- ❒ Interpreter
- ❒ Compiler
- ❒ Operating system
- ❒ Utilities

Scientific
- ❒ Process simulation
- ❒ Process control
- ❒ Statistical
- ❒ Others
- ❒ Antivirus
- ❒ Others

Edutainment
- ❒ School
- ❒ Home
- ❒ Others

Internet
- ❒ Web authoring
- ❒ Web server
- ❒ Others

Personal Productivity
- ❒ PIM
- ❒ Others

Mark the envelope to PC Quest Product Database and mail it to the PC Quest Bureau in your region:

506 Meghdoot, 94 Nehru Place, **New Delhi** 110019
2 Jain Chambers, 577 SV Road, Bandra, **Mumbai** 400050
401, 4th Floor MBC, 134 Infantry Road, **Bangalore** 560001
VII Floor, Guna Buildings, 304/305 Mount Road, Teynampet, **Madras** 600018
4 Motilal Nehru Nagar, 1st Floor, Begumpet Main Road, **Hyderabad** 500016
Souryas Business Centre, 233/3 AJC Bose Road, **Calcutta** 700020

(While every effort possible effort will be made to include a valid entry, PC Quest reserves the right to include or exclude any product without assigning any reason whatsoever.)

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

@Home

It's where the excitement is.

Across the world, PC vendors are discovering that their hottest market isn't the megacorps. It's the home.

Millions of families are pushing computer technology and the Internet to their limits.

The Pentium, Windows 95, CD-ROM, multimedia and VSNL's Internet account all entered the Indian home first, and the office later.

In 1995, PCs outsold television sets in the United States.
The number of PCs installed in India reached 1 million.

In 1996, it costs Rs 5,500 to connect your home to the Internet for a year.

By 1997, one-third of eighth-grade kids in the top Indian public schools will own PCs. The others will be competing with them.

So isn't it strange that of all the computer industry and technology magazines in India, there's not even one for your family--at home?

At Cyber Media, publishers of India's top computer and telecom magazines Dataquest, PC Quest and Voice & Data, we thought it was.

So watch the newsstands in September. And your mailbox in August...

If you're a subscriber of Dataquest, PC Quest or Voice and Data, for a special trial issue, mail this coupon on a postcard or your letterhead to **Computers at Home, D-74 Panchsheel Enclave, New Delhi 110017.**

NAME: _____

ADDRESS: _____

_____

_____

_____

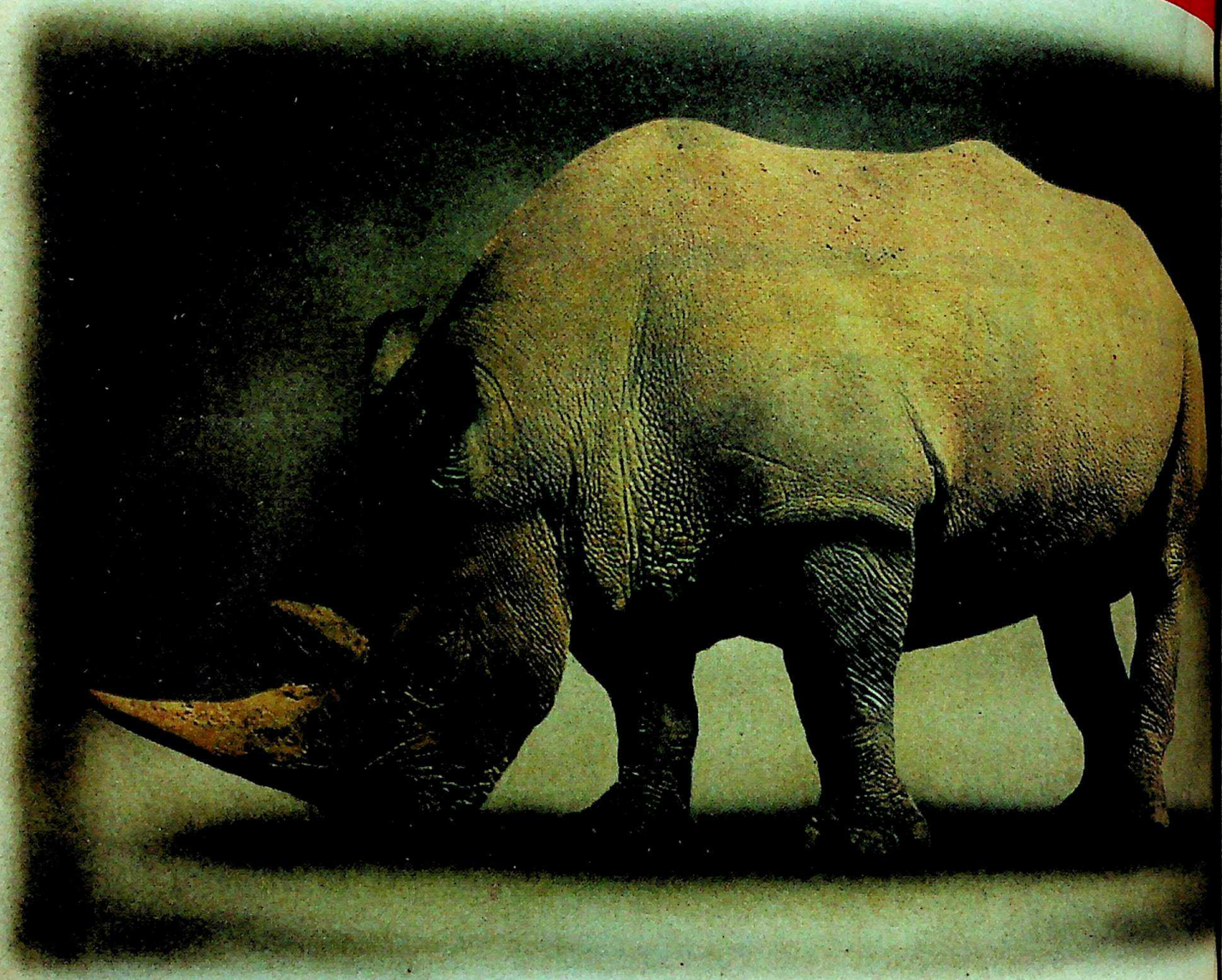
Current subscription number: _____

C@H
Computers At Home
the family-friendly edutainment magazine

CC-0. In Public Domain.

Digitized by Arya Samaj Foundation Chennai and eGangotri

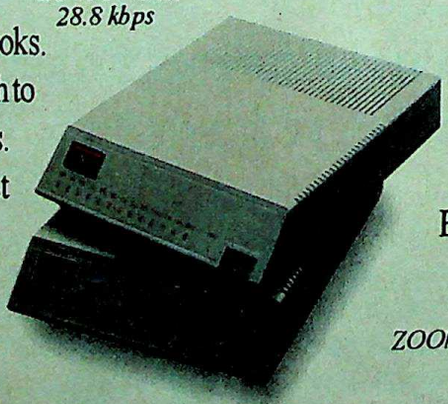
ZOOM fax MODEM



Is Just As Tough

ZOOM V.34X
28.8 kbps

Zoom fax modems. Sheer elegance in outer looks. But within they're really tough. Tough enough to perform in the most demanding environments. So reliable that they can operate over the most unreliable telephone line conditions. And now with Internet & E-Mail zooming in with a host of communications capabilities,



ZOOM VFX 14.4 kbps

Zoom offers a complete line of tough and reliable fax modems for high speed data communications in an amazingly affordable product, which are designed and manufactured in Boston, USA, with an unbeatable 7-Year Warranty*

And Just As Elegant

* Manufacturer's carry in warranty

Marketed & Serviced in India by:

ADROIT TECHNOLOGIES LTD.

P. O. Box : 4944, B-4/115, Safdarjung Enclave, New Delhi-110
Phone : 6191353/6191553/6100132 Fax : 91-11-6167
E-Mail : zoomdel. adroit @ sm8. sprintrpg. sprint. com

Digitized by Arya Samaj Foundation Chennai and eGangotri

ADVERTISERS' INDEX

This list of advertisers is to help you in locating a particular advertiser/ product featured in this issue. However, if you would like to have further information on any of the Company's product advertised herein, please write the relevant code number on the readers' query card provided in this magazine and mail it to us. We will forward it to the relevant advertiser.

AD CODE	ADVERTISER	PAGE NUMBER
07001	ADROIT	226
07002	ALBIT	145
07003	APC	180
07004	APCOM	172
07005	ASHOK ELECTRONICS	150
07006	BDPS	200
07007	BENCHMARK	6
07008	BINARY	130..136
07009	BLUE CHIP SOLUTIONS	106
07010	BPB	83,85
07011	C DAC	62
07012	CHAMPION	142
07013	COMPUAGE	96
07014	COMPUCOVER	168
07015	CORREL	58
07016	D-LINK INDIA	196
07017	DATALINKER	122
07018	DATAMATICS	161
07019	DATEX	40
07020	DIGITAL ELECTRONICS	76
07021	DIGITAL WORLD	176
07022	EDP AIDS	152
07023	ELENT	174
07024	ELNOVA	198
07025	FIFTH GENERATION	42
07026	GOLDSTAR	10
07027	GUARD	170
07028	HEXAWARE	104
07029	HP	163, 165
007030	HST	124
07031	IETE	216
07032	INDIAN BANKS	22
07033	INFOSYS	126
07034	INNOSERVE	38
07035	JAYA S/W	116
07036	KIRLOSKAR	148
07037	KNOWLEDGEWARE	28
07038	KNOXWARE	114
07039	KUNHAR PERIPHERALS	99, 100
07040	L&T	17
07041	LANBIT	46
07042	LINEAR & DIGITAL ARPAN	206
07043	LIPIDATA	60,72
07044	MASTEK	212
07045	MEDIATECH	154
07046	MICROSENSE	188
07047	MICROSYS	134
07048	MICROTEK	92, 182
07049	MICROWARE	33,35
07050	MINICOMP	112
07051	MODULAR SYSTEMS	132
07052	MRO-TEK	44
07053	MULTITECH	IFC
07054	MULTITECH S/W	53
07055	NATIONAL COMPUTER SYSTEMS	190
07056	ONWARD NOVELL	13
07057	ORACLE	167
07058	POWERTEL BOCA	50
07059	PRIYA INTERNATIONAL	146, 202
07060	PROLAND S/W	128
07061	PUSHPAM	158
07062	PUSTAK MAHAL	67,69
07063	QUANTUM	48,94
07064	RADIANT	184
07065	RANK DATA PRODUCTS	108
07066	REAL TIME	237
07067	RIPOX	221
07068	SAMTECH	138
07069	SANDUR	18
07070	SATYAM	156
07071	SEACOM	80
07072	SES COMPUTERS	118
07073	SIEMENS	4
07074	SOFTLINK	74
07075	SOFTPLUS	30
07076	SOLUTIONS	150
07077	SPACEAGE	192
07078	SPARR ELECTRONICS	120
08079	SQL STAR INTERNATIONAL	102
07080	SUPPORT SYSTEM	88
07081	SVAM	90
07082	TEKTRONIX	75
07083	TVSE	78
07084	VIDUR & CO	140
07085	VINTRON	1
07086	WANLAND	96
07087	WIPRO PERIPHERALS	2
07088	WIPRO SYSTEMS	55
07089	WORLDWIDE	186
07090	XON	235
07091	ZENITH	256

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PRODUCT INDEX

1,000VA UPS 61
14" SVGA HCL Mono Monitor 51
2000 DC 197
386 and 486 Systems 32
386 Motherboard 57
3D Graphics 29
3D Studio MAX 166
3M Floppies 81
4 Port Serial Cards 31
4/8/16/32 Channel Video / VGA Splitters 57
4000 Series 39
401T-401P 27
486 ELS 32
486 Motherboard 57
4AT6-DX2 32
4AT6-X5 32
500VA UPS 61
5100 PE 32
5100 PI 32
5AT6 - 133 32
5AT6 - 75 32
5AT6-133 PCI 32

A&P 6.01 197
A1 Computer Dictionary 151
AA+ 2.01 and Tradepack 2.01 86
ABC Blaster 151
ABC Flowcharter 4.0 173
Accel 400 SERIES 39
Accel 500 SERIES 39
Accord 4.0 86
ACCOUNTING KID 1.2 86
ACCOUNTS 6.0 86
ACCSMART Financial Accounting 86
AccSys 197
Accupower 650 61
Accupower 650 61
Accupower Gold 63
Accupower Select 63
ACE 5.1 86
Acer Multimedia Kit 52
AcEye 197
Acounter 95
ACSL Model 117
ACSL Real Time 117
ACSL Vision 117
ACTI 2.0 185
Actis 197
AD 32
ADA Compiler 133
Adaptec - SCSI 31
Adaptec AHA 1542 CP/CF 31
Adaptec AHA 2940 and 2940UW 31
Adobe Acrobat 2.1 149
Adobe Illustrator 4.1 149
Adobe Page Mill 164
Adobe Pagemaker 6.0 149
Adobe Photoshop 3.0 149
Adobe Premiere 4.2 166
Adobe Site Mill 164
Advanced Design-S7 117
ADVANTAGE+ P/75 - MODEL 3 32
ADVANTAGE+ P/75 - MODEL 850W 32
Aeon 63
AID de Hotel Management 197
AIM 96 86
AIM 96N 86
Ajwa QJC 80 Cartridge Tape Drives 61
Akalan 1.0 179
Akash 197
Akruti-95 149
Albit 500 C 63
Albit 500 C 63
Alchemy 3.12 135
Alloy 1.0 197
Almanac 2.0 185
ALP 219
AM 486DX2/66MHz CPU 57
AMI UPS LT-400 61
AMI UPS LT-600 61
AMI UPS LT-800 61
AMIGA 1200 32
Amiga 14" Color Monitor (M1438S) 51
Amiga Surfer Pack 39
Amiga-A-4000T 34
Amon Financials 1.0 86
Amon Home Financials 1.0 86
AMPL 4.5 86
Anand Controls One-UPS 63
ANG VIGYAN 1.0 179
Animation And Graphics Pack 166
ANITA 5.0 197
Ank Ajoobe 1.0 179

Anti Crook 189
Anti-Copy System 179
AP 200 SERIES ONLINE UPS 61
AP 400 SERIES 61
APC Back-UPS Pro PNP Series 61
APC Back-UPS Series 61
APC Backpro UPS PNP 280VA 61
APC Matrix UPS Series 61
APC Powerchute Plus 189
APC Smart-UPS Series 61
Apex 486/Pentium 34
Aplab Servo Stabilizer 63
Aplab UPS 63
Aplab UPS 63
Apogee Games Collection 162
Apple Macintosh Computers 34
Apple Macintoshes/Powerbooks 34
Appoint'96 - 9999 A.D. 185
Aquasoft 197
Arcade Games 162
Archi CAD 4.55 117
Archibus 117
Architectural BASE-S7 117
Arena SE 117
Armaan Keyboard 29
Armaan SVGA Monitor 51
ARMS 1.0 197
Arogy Ver.1.0 197
Artec Scanners 79
Artemis Schedule Publisher 95
ASCENTIA J10-MODEL CSS10 800 MB 8 MB 32
ASCENTIA J30-MODEL CSS10 800 MB 8 MB 32
ASCENTIA J30-MODEL CTS10 800 MB 8 MB 32
ASM Mrp-II 197
ASM Preps-II 1.0 197
Asset 6.5 95
Asset Financials Suite 86
AST Advantage P/75 Model 32
AST Ascentia 950N Model : P/75 32
AST Ascentia J30 P/100 34
AST Bravo NSP/133 Model : 1600W 34
AST MANHATTAN P1533 - MODEL 3SE 34
AST MANHATTAN V5100 - MODEL 2003 34
AST Manhattan V5100 Model 2008 34
AST Premmia 6X P/133 Model 1600W 34
Astrology Pack 179
Astronomy and Space Pack 151
Asymetrix 3D/FX 166
Asymetrix WEB 3D 164
AT&T 3800 Series 43
AT-5200 57
Atithi 197
Atlas GIS 3.0 179
Audio Media Suite Pro - SGI 166
Audit Help 2.0 197
Author Ware 3.0 166
Auto Architect with Core-S7 117
Auto CIVIL 7.0 117
Auto Deal 1.0 197
Auto Machine Operator 27
Auto Manager 117
Auto Modem/Fax/Phone/Answering Machine Switch 41
Auto PROJECT 2 95
AutoCAD Data Extension 117
AutoCAD Designer 1.1 117
AutoCAD Release 12 117
AutoCAD Release 13 117
Autodesk 3D Studio 4.0 166
AutoDesk View 179
Autodesk Work Center 117
Automatic Message Switching System 137
Automatic Voltage Regulator 63
Automation System For Continuous Process 117
Automobile System 1.0 197
Autosec 185
Autovision 117
AV Hard Drives Micropolis / Seagate 81
Avalon ERP Software 9.0 197
AVerKey Plus 52
Avid Media Suite Pro 4.0 166
Avid Real Impact 166
AVR/Transhield 61
Awareness & Traning Programmes 153
AX-200 (Dial up & Leased Line Encryptors) 41
Axiom 117
Aztech 6x CD-ROM Drive 81
Aztech Audio Telephony 2000 41
Aztech Video Galaxy Gamma 52
Aztech Video Galaxy Oscar Pro MPEG 52
Aztech Zeta Double Speed CD-ROM Drive 29
Aztech Zeta Quad Speed CD-ROM Drives 29
Aztech Zeta Six Speed CD-ROM Drives 29

Balance 1.0 86
Baler 6.0 133
Bancs 2000 Suite 197
Bank Branch Manager 197
Banker for Windows 197
Banking Software 197
Bankman 3.0 95
Banksoft 2.0 197
Bar-Code Reader 27
Barcode Printer 68
Barlabel 173
Basic Programmers Kit 139
Batchcad 117
Bee-El 199
BeeHub-XI 54
Beginning to Read-MUPPETS 153
Bell DAS v1 0.001 117
Bell Router NR-2 171
BellVOX 41
Benefit Fund Operations Management 1 199
Benefit Funds 199
Bhajagovindam Multimedia 1.0 153
Bhavishya Vakta 1.0 179
BIG Brother 95
Big Bull 1.0 199
Bill 6.00 86
Bill Discounting 86
Bill Of Lading 199
Bill Of Material 95
BINGO 86
Biochemical Fermentation 119
Biology Tutor 153
BioPro Designer 119
Birbel 179
Birthday Reminder 185
Bit Financial Accounting 86
Bit-ledger-Tax 95
Blood Bank Management 199
Blood Sugar 2.0 199
Blue Chip 2.0 199
Body Language 1.0 179
Boiler Automation System 119
Book Keeper 86
Book Shop Accounting 86
Borland C++ 5.0 with JAVA Support 133
Borland Delphi Client Server Suite 2.0 135
Borland Delphi Standalone 139
Borland Paradox 7.0 135
BOS 197
BP-5780 II 70
BP-7800 II 70
Brains Security Software 1.0 95
Branch Accounting 86
BRAVO MS //133 - MODEL 1600W 34
BRAVO MS P/100 - MODEL 1200W 34
Bridge SuperCAD 1.0 119
Bright Works 173
Brilliant 34
Broker 1.0 95
Brooks Computers 34
Brother MX 6300 73
BT 946C 31
Budget Control System 95
Build Superfast 199
Bull Power 63
Bull Power UPS Systems 63
Bull Power UPS-500-A 63
Bus Master Wide SCSI Adapters for PCI 31
Business Accounting Pack 86
Business Archives 95
Business Software 2.0 86
Business Tracker 1.1 95
Business Vision 1.0 95
Butt Saver 189

C Programming Toolkit 139
C++ Assembler Pack 139
CA Clipper 5.3 141
CA Visual Objects 1.0 86
CA+ 135
CA-Open Ingres 1.1 95
CABS-FMS 2.10 95
CABS-FXD 2.00 199
CABS-LIC 2.50 95
CABS-LMS 2.00 95
CABS-MPS 2.00 86
CABS-PAS 2.50 95
CABS-PAY 3.20 95
CABS_RMS 3.10 179
Cachet Cold 3.0 119
CAD Overlay esp4.x 119
CAD Overlay GSX2.0 119
CAD Overlay LFX 119
CAD Plus 3D 119
CAD/Designing Pack 166
Cadmus UP 1.0 77
Calcomp Plotters and Digitizers 70
Calligra Q10 70
Calligra Q20 179
CAMPunch 2.0 119
CAPDES CP 95
Capes 3.00 199
Capital Market 1.0 97
Capitaline/Capita Stocks 97

CAQPS 97
Cara 3.02 97
Care 97
Cashew Exporters 97
CASS 97
Cater-Pillar 97
Catwork 97
CBT 97
CBT Express 1.0 for Windows 97
CBT for PowerBuilder 97
CC/P 97
CD Server 97
CD Shuttle 97
CD Shuttle (SCSI - Quad Speed) 97
CD Writer PCD-600 97
CD-ROM RECORDER 97
CD-ROM Tutorials 97
CDF 90 97
CDNet Integrated System 428/O 97
Celebris GL 5100 ST/5120 ST/5133 ST 97
Celebris XL 5100/5133/6150 (Pentium) 97
Cell Power Intelligent UPS 97
Centura Team Developer 97
Cerebra 97
Cerebra Infiniti 97
CFA 97
CFAS 3 97
CGA Games Pack 97
Champion UPS 97
CHAOS 97
Charisma 4.0 97
Check 97
Chemcad 3.2 97
Chemcad Batch 97
Chemcad Therm 97
CHEMCOST 97
Chemistry Tutor 97
Chess 3.0 97
Cheyenne ARCserve 97
Chinese Sign 2.0 97
ChineSign 2.0 97
Chits 97
CHRIS 3.0 97
Circuit Maker v2.2 97
Civil Designware 97
CleanSweep 95 97
Clicker Pro 97
Client/Server Products 97
Clinic Management System 97
Clinico 97
Clipper/dBase Pack 97
CMRASIKA 1 97
CMS Line Driver 97
CMSISHYA 1 97
CMSS 97
CNLH 97
Cobol Analyst 3.1 97
Code Operated Switch 97
Codex 3266 V.32 bis 97
Codex 3266 V.34 97
Coherent 97
Color Jetprinter 1020 97
Color Jetprinter 4079 plus 97
Colour Page I/II (GENIUS) 97
COMET 97
Commander Decision 1.0 97
Commander LAN EIS 4.2 97
Commander OLAP 4.0 97
Communication Pack 97
Comp-Act 1.0 97
Compact 97
Compact Sleek 800 97
Compaq ProSignia 300 97
Compex-Cat 1.0 97
Complaints Desk 2.0 97
Complete Communication Card 97
Component Master 1.0 97
Components 97
Compression And Archive Set 97
Compro CD Collection Personal Organizer 97
Compro CD Collections Personal Organizer 97
Compro Plug N Play Sound Card 97
Compro Shell CD-ROM Library 97
Compro VIDEO CD Player 97
Computer Assembly Kit 97
Computer Atlas 97
Computer Carrels 97
Computer Furniture 97
Computer Furniture 97
Computer Housie 97
Computer Keyboard including Windows 97
Computer Keyboard Model SE-104 97
Computer Palmistry 97
Computer Printer Ribbon 97
Computer Startup Pack 97
Computer Systems 486-Pentium 97
Connectors 97
Constant Voltage Terminal 97
Construction Statistics 97
Consultant+ 1.0 97
Contact - 96 97
Contact System (C96) 97
Contact! 1.0 97
Container Tracking System 97

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

121
39
121
119
187
149
179
179
169
173
149
173
149
149
149
149
149
149
149
87
199
95
199
63
57
97
119
179
189
27
119
31
31
31
199
31
199
141
63
179
137
173
121
189
41
54
54
54

PS) Animation Recorder 52
201
199
57
31
81
81
81
ATION 2000 34
84
63
27
(01A-M, 102-802A/M) 27
135
175
34
56
43
51
63
63
181
PUC Classic Collection 137
169
162
181
162
149
199
153
169
169
Collection Vol. 1 169
Collection Vol. 2 162
162
181
181
97
121
201
181
97
153
175
191
153
191
97
153
87
97
87
97
97
97
185
97
173
121

DBS CAD/CAM 121
DBS CGA Games 164
DBS Chemistry Tutor 153
DBS Classic Cliparts 149
DBS Classic Cliparts Vol-I 149
DBS Classic Cliparts Vol-II 149
DBS Cliparts-Nature's Beauty 149
DBS Compression/Archive Manager 191
DBS Computer's Collection 153
DBS Creativity Pack 153
DBS Crime Investigator 201
DBS Database Application 135
DBS Database Utility Pack 191
DBS DAYO Business Collection 97
DBS Departmental Store Manager 201
DBS Desktop Assistant 185
DBS Disk Cataloging System 181
DBS Disk Utilities 191
DBS Doctor's Technical Reference Guide 153
DBS Dot-Matrix Kit 191
DBS Dr Bert's Tutor 169
DBS Dr Graphics 149
DBS DTP Manager 149
DBS Electronics Tutor 153
DBS Entertainer - Action 164
DBS Entertainer - Adventure 164
DBS Entertainer - Arcade 164
DBS Entertainer - Fun Games 164
DBS Entertainer - Kid Games 164
DBS Entertainer - Puzzles 164
DBS Entertainer - Simulation 164
DBS Entertainer - Wargame 164
DBS Entertanier - Chest Card 164
DBS Examinator 153
DBS Fitness Assistant 153
DBS Flix's Aniamtion For Kids 155
DBS Floppy/Tape Tool Kit 191
DBS Flowcharter 175
DBS Fontomania 149
DBS Food & Nutrition 155
DBS FRONT OFFICE 97
DBS Fun 'n' Learn For Kids 155
DBS Games Platinum 164
DBS Geneology Tracker 181
DBS General Education 155
DBS GNU Assembler 133
DBS Graphic Workshop 149
DBS Graphics Bonanza 149
DBS Hard Disk/CD-ROM Manager 191
DBS Hardware Technician 191
DBS Health Watch 181
DBS History/Geography Tutor 155
DBS Hobbies Collection 155
DBS Home Knitting Pack 155
DBS Home of Remedies 201
DBS Home Utility Collection 155
DBS Hospitals General Utility Collection 201
DBS Hotel Management 201
DBS House Keeper's Assistant 201
DBS House of Games 164
DBS Instant Artiste 149
DBS Investment Guider 155
DBS Junior Maths 155
DBS Jurassic Park 155
DBS Kids Drawing 155
DBS Kids General Tutor 155
DBS Kids Startup Pack 155
DBS LAN Mananger 171
DBS Language Learner 155
DBS Language Learner 2- Spanish, French 155
DBS Legal Assistant 201
DBS Leisure Games Collection 164
DBS Letter Writer 175
DBS Library Manager 201
DBS Mail Manager 175
DBS Marketing Master 155
DBS Mathematics Tutor 155
DBS Medical Journal Collection 201
DBS Menu and Shells 191
DBS Mix Bag Utility 191
DBS Morphing Magic 169
DBS Multilingual Collection 219
DBS Multimedia Games 164
DBS Multimedia Madness 169
DBS Multimedia Tool Kit 169
DBS Music Heaven Collection 169
DBS Music Teacher 155
DBS My Little Realm Series 185
DBS Neo DTP Add-ons 149
DBS Office 97
DBS PC Speaker Music Maker 169
DBS PCB Designer 121
DBS Personal Finance Manager 185
DBS Personal Interest 185
DBS Personal Organiser 185
DBS Physics Tutor 155
DBS Pre-school Collection 155
DBS Printers Apprentice 191
DBS Programmer's Toolkit- General 141
DBS Programming 141
DBS Programming Language Tutor 155
DBS Programming Series 141
DBS Programming Senes 141
DBS Programming Series - Assembler 141
DBS Programming Series - PASCAL 141
DBS Programming Series - Visual Basic 141
DBS Property Manager 201
DBS Quiz Maker 155
DBS RDBMS Pack 135

DBS School Management 201
DBS Science/Engineering Toolkit 121
DBS Scout Guide 201
DBS Screen Saver Kit 191
DBS Screen Utilities 191
DBS Service Tracking & Management System 175
DBS Share Broker 201
DBS SoundBlaster Collection 169
DBS Space Astronomy Set 155
DBS Space Simulator 155
DBS Spectacular Animations 169
DBS Spelling & Vocabulary Enhancer 155
DBS Sports Mania 155
DBS Spreadsheets Collection 175
DBS Statistical Analyzer 121
DBS System Manager 191
DBS Talking Teacher 155
DBS Teacher's Assisstant 201
DBS Text Editor's Collections 175
DBS Text Processing Kit 175
DBS Travel Kit 201
DBS True Type Fonts Bonanza 149
DBS Typing Tutor 155
DBS Ultimate Database Collection 135
DBS Ultimate Demo Collections 181
DBS Virus Scanner 93
DBS Weather Forecaster 155
DBS Window Games 164
DBS Window Utilities 191
DBS Windows Business 97
DBS Windows Graphics Magic Collection 169
DBS Windows Icon Library 191
DBS Windows Manager 191
DBS Windows Mixed Bag Utilities 191
DBS Windows NT Tool Kit 191
DBS Windows Overload 191
DBS Windows Programming Tool Kit 141
DBS Windows Starter Kit 191
DBS Word Processors Collection 219
DBS Writer's Editor 201
DC 1050 51
DE-1200 54
DE-1400 54
DE-620 CT 54
DE-650 CT 54
DE-802 54
DE-804 54
DE-805 TP 54
DE-809 TC 54
DE-812 TP 54
DE-816 TP Ethernet Hub 56
DE-824 TP-UTP Hub 56
DE-960 Print Server 56
DEC SNA Domain Gateway 41
Deciport 96 181
DEditor 141
Defence Accounts 1.0 87
Delphi Business Components 141
Delphys 63
Design II 121
Design II for Windows 121
Design View 121
Design-S7 121
Designer 4.1 T. E. 149
DESQview/X 187
Detectore & Tincture 191
Dew Point Controller 84
Dhruba DOSTrade 87
Dhruba For Schools 201
Dhruba WinTrade 87
Dialog 6.0 137
Diamond Industry System 1.0 201
Diary 185
Dietmaster 1.1 201
DigiSign 1.5 CD 181
Digital Camera Back DCS-465 57
Digital Camera DC-40 57
Digital Camera DCS-420 57
Digital Camera DCS-460 57
Digital Camera EOS - DCS 5 57
Digital Orchestrator Plus 169
Digital PID Controller - CS PID 7542A 84
Digital Sound Gallery 169
Digital Video Producer 169
Digital Voltage Conditioner 63
DigiTell 7.10 181
Dimensioning 121
DIO ACC 1.0 87
Dirse 1.0 191
Discover Sikkim 157
Discovering Music 157
Disk Utilities Pack 191
Ditto 420i 81
Ditto 800i 81
DM 1251 51
dMail 179
dMail+ 179
DNC Linkware 191
Doctor's Desk 5.01 201
Doctors Kit 201
Document Retrieval System 175
Documentor 201
DOS at Work 157
DOS-TAR 191
Dot Matrix Printer Kit 191
Dot to Dot 157
DPC 8524 70
DPS-Perception Video Recorder PVR-3500 52
DPS-Personal Animation Recorder 52

Dr Solomon's Anti-Virus Toolkit 93
Draco 12 59
Draco 18 59
Dream Analyzer 1.0 181
Drive Guard 63
Dructures 1.0 157
dSPACE 9MS 320C31 Controller Board 32
dSPACE Multiprocessor Board D21201 32
dTime! v1.0 187
DTM-S7 121
DTP Pack 149
Dtrac Floppy Diskettes 81
Dual Access System 27
Dual Access System/VGA Multiplier 27
Dual Printer Sharers 27
DUET 27
Dyna Text 149

E-Gen 5000 63
E144vox (WS-1414 EV7) 47
EAGLE 3.0 121
Earthworks-S7 121
Easi / Pace 121
EASSY LOOK 175
Easy Painter (GENIUS) 57
Easy Scroll (Genius) 59
Easy Share 2.0+ 203
Easy Track (GENIUS) 59
Easy Trade 1.4 87
EasyPay 97
Easyway Attendance Recorder 57
Eazy Counter Sale Software 97
Eazy F.A. 87
Eazy Inventory and Billing 97
Eazy Sale Distribution by Vans 97
Eazy Share A/C 203
EC8/64-ATK 31
EC8/64-EIK 31
ECB/32-ATK 31
EccoPro 185
Edge 87
Edict 97
EDMS 175
EDMS 4.5 201
EDMS for LAN (5-250 Users) 175
EDRT : Electronic Document Management System Run 175
EDSA DESIGN MASTER 121
Efficient Executive 1.1 185
EGS/Bumper EGS/Seals 121
EIAMS 9000 181
EIO-8-CK 31
EIO-8-M 31
EIO-8-RJK 31
Eizo/Nanao Flexscan F764 51
EKALIVA 135
Elastic Reality Ver.1.2 169
Electronic Corporate Directory 181
Electronic Products Finder 1.0 181
Electronic Voltage Stabilizer 63
Elent CVT 63
Embryo 203
EMCAS 1.0 87
ENCAD'S Novaset Pro 77
Encrypt 2.2 193
Engineer's Aide 123
Engineers Aide 3.11 123
English Booster Set 157
English Builder Set 157
English Vocab 157
Environment for COBOL 2.02 141
EPC Browse 121
EPOS 201
Epson DFX 5000 70
Epson DFX 8000 70
Epson EPL-3000 73
Epson GT300 79
Epson GT5000 79
Epson GT8500 79
Epson GT9000 79
Epson LQ-100 70
Epson LQ-100 70
Epson LQ-1070+ 70
Epson LQ-1070+ 70
Epson LQ-300 70
Epson LQ-300 70
Epson LX-1050+ 70
Epson LX-1050+ 70
Epson LX-300 70
Epson LX-300 70
Epson Stylus 1000 71
Epson Stylus 820 71
Epson Stylus Color II 71
Epson Stylus Color IIs 71
Epson Stylus Pro 73
Epson Stylus Pro XL 73
Epson Stylus Pro XL 73
EQUITY WORKSTATION 201
ERwin/ERX for PowerBuilder 141
Estate Manager 97
Estimate 3.1 for DOS 203
ESX-1320 56
Ethernet Cards 56
Ethernet Terminal Server - TS3010 56
Everyday Numerology Ver.2.1 181
EX 3.0/EX for LAN 87
Exact 3.0 87
EXACT-FAP 87
EXACT-IBS (Integrated Business Solution) 97

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

EXACT-PMS ... 203
EXACT-TXT ... 97
EXADDON 3.0 ... 191
Excise Package ... 97
Execjet IIc ... 73
Executive Desk 5.0 ... 185
Executive Plus ... 185
Executive Secretary 2.20 ... 101
Executive's Pack ... 185
EXMAS (Exporters Management System) ... 97
Expert Advance Mailer ... 175
Expert Advance Payroll ... 101
Expert Contacts Manager ... 185
Expert Executive Diary ... 101
Expert Inventory Control ... 101
Expert INVESTMENT MANAGER ... 101
Expert Quick Accounting ... 87
Expert Systems Pack ... 141
Expertis 1.0 ... 141
eXpertise ... 189
Explore 2.0 for Windows ... 164
Expodoc ... 101
expoMan 2.0 ... 219
Export Documentation ... 203
Export Documentation System 2.10 ... 101
Export Management System 1.1 ... 101
Export Master 2.0 ... 203
Exports 2.0 ... 87
Expotex ... 203
Express Bridge ... 171
Eyewitness Encyclopedia of Nature ... 157
Eyewitness Encyclopedia of Science ... 157
Eyewitness Virtual Reality BIRD ... 157
Eyewitness Virtual Reality CAT ... 157
EZ ProDesk ... 185
EzeeTax ... 181

F A/c S 6.01 ... 87
F-Prot Professional 6 for Windows NT (Free Update) ... 93
F-Prot Professional for DOS 6 free Updates ... 93
F-Prot Professional for Windows ... 93
F-Prot Professional for Windows 95 ... 93
F2FR-35 mm Slide Recorder ... 57
FA Package ... 87
Face Reader 1.0 ... 181
Factory CAD/PLAN/FLOW ... 123
FactoryLink 4.4 ... 181
Falcon ... 34
FAM SQL 2.0 ... 87
Family Medical Guide ... 157
FAS ... 87
FastNET 10-24 ... 56
FastNET 100-16TX ... 56
Fax Office 1.0 ... 56
Fax on Command ... 41
Fax on Demand ... 137
Fax/Modem Server ... 41
FB-840 ... 70
FBC 2.00 ... 203
FDS-Fixed Deposit System ... 101
Fexbee ... 203
Figaro+ ... 141
File Utilities Pack ... 193
Filing Cabinet ... 193
Film Scanner RFS 2035 Plus ... 79
Film Scanner RFS 3570 ... 79
Fin-Acc ... 87
Fin-EX 3.1 ... 87
Fin-Mate ... 87
Fin-Pay ... 101
Finac ... 87
Finacc Ver.1.0 ... 89
Finance Accounting System ... 89
Financial Accounting System ... 89
Financial Accounting System 3.20 ... 89
Financial Accounts ... 89
Financial Toolbox ... 203
Fineman 1.O ... 101
FinESS ... 87
FinESS on Oracle ... 87
Finesse ... 101
FINMAN 7 ... 87
Finpak ... 89
Finpak 7.0 ... 89
Fintex 1.0 ... 101
FINTRAK ... 203
FIPS ... 87
Flash Accounting 1.5 ... 89
Flash Monitors ... 51
FLEET MAN ... 203
FlexCollect ... 123
FLISP 1.0 ... 133
FNA 1.5 ... 123
Focus 4.5 ... 89
Font Designer EPSON ... 151
Font Pack ... 193
Food Diet and Nutrition ... 157
Foreign Language Pack ... 157
Form Z 2.7 ... 151
Forms 1.0 ... 101
FoxPro DOS Professional ... 135
FPROLOG 1.0 ... 133
FrameMaker 5.0 ... 151
FrontPage ... 164
Fshares 1.3 ... 203
FSL Accounting 5.9 ... 87
FSL Organizer 1.0 ... 185
FT-S300 ... 79
Fujitsu Hard Disk Drives ... 81

Full Armor for Windows ... 193
Fuzzy Expert ... 123
Fuzzy Logic Toolbox ... 123
Fx-Plus ... 89

Game of Flash ... 164
Gamma Unitype Ver 1.7/ ... 193
Garnex ... 203
Gas Plant Plus ... 121
Gate Pass ... 203
GC-1090 ... 77
GCC Plotters ... 77
GemFinder 2.10 ... 179
GEMS ... 203
Gems 4.5 ... 101
General Inventory Control System CBSC-GIC 3.10 ... 101
General Knowledge Set ... 157
General Sales Agent ... 203
Genestat Ver.5 ... 123
Genius Base Module ... 123
Genius Profile ... 123
Genius Sheet Metal ... 123
Genius Solid Sheet ... 123
Genius TNT ... 123
Genius Vario ... 123
Genius-HVAC ... 123
Geography Pack ... 157
Gestation ... 203
GF-1060 ... 77
GFA-Excise 3.0 ... 89
Gist Card ... 31
GK 1.00 ... 157
Glim Ver.4 ... 123
Gphigs ... 123
GPIB - Card ... 31
GPIB Interface ... 27
GPIB Interface ... 27
Graph Term ... 51
Graph-in-the-Box Executive ... 175
Graphics Clipart Pack ... 151
Graphmaster Large Format Plotters ... 77
Green Monitor Adapter ... 27
GS-150 ... 70
GS-2415 ... 70
Guardian Sleek UPS ... 63
Gupta RDBMS ... 135
Gurbani Informant ... 157
GVC 14.4 ... 47
GVC 14.4 PCC ... 47
GVC 2.4 ... 47
GVC 28.8 ... 47

Hard Disk Drives ... 82
Hard Disk Drives, Cartridge Tape Drives ... 82
Hast Rekha 1.0 ... 181
Hastakshar 1.0 ... 181
Hayes Modems ... 47
Hazsec/Haztrac ... 101
HCK 4200W ... 29
HCT 900 Terminal ... 34
HD 5000 ... 70
HD 6045 ... 70
HD 6595 ... 70
Head Numerologist 1.7 ... 181
Health Watch Pack ... 157
Heat Exchanger Software ... 123
Hi-Rel BC-500 ... 63
Hi-Rel Smart 500 ... 63
Hi-Tech 486/100 ... 34
HiNote Ultra II ... 39
HiNote VP ... 39
Hire Purchase Management System ... 101
Hitarth Fonts ... 151
Hogia ART 1.62D ... 101
Home Finance Package ... 101
Hompath Win ... 203
Hope Palmtop ... 39
HOPEMAN ... 203
Hospital Management ... 203
Hospital Management System ... 203
Hospital+ 1.0 ... 203
Hospitare ... 203
Hot-Man 1.0 ... 203
Hotel Management System ... 203
Hotel Management System Ver.3.10 ... 205
HOTELIER 3 ... 203
Howtek Drum Scanner 4500 ... 79
Howtek Drum Scanner 7500 ... 79
HP Colorado T1000 ... 81
HP Colorado T1000 & T1000e ... 81
HP Colorado Tape Backup T 4000S ... 81
HP Copyjet ... 73
HP DJ 200 ... 73
HP DJ 400 ... 73
HP DJ 600 ... 73
HP DJ 660C ... 73
HP DJ 820 Cxi ... 73
HP DJ 850 C ... 73
HP LaserJet 5MP ... 73
HP Omnibook 5000 ... 39
HP Surestore 4020i CD-Writer ... 29
HP SureStore CD-Writer 4020i ... 82
HP SureStore Tape 12000e ... 82
HP SureStore Tape 2000i/e ... 82
HP SureStore Tape 5000i/e ... 82
HP SureStore Tape 6000i/e ... 82
HP VE 4/66 ... 39
HRMS ... 203
Human Resource Management System ... 205

Humantouch ... 205
Humidity Controller ... 84
Hurricane ... 193
HyperCAM ... 123

IAVT 3.01 ... 93
IBM Hard Disk Drives ... 82
IBM PC 100 ... 34
IBM PC 300 ... 34
IBM ThinkPad 365E (Active) ... 39
IBM ThinkPad 365E (Passive) ... 39
IBM ThinkPad 755 CDV ... 39
IBM ThinkPad 755 CV ... 39
IBM ThinkPad 760 C ... 39
IBM ThinkPad 760 CD ... 39
IBM ThinkPad 760 L ... 39
IBM ThinkPad 760 LD ... 39
IBR ... 39
IBS 2 Lite ... 101
IC51 ... 101
IC85 ... 135
Icef 1.0 ... 135
ICIS ... 205
Icom Product Range ... 123
Icon Author 7.0 ... 56
IDSS Windows ... 169
Image Processing Tutor ... 181
Imageprint ... 157
Impex ... 193
Import Management System ... 205
IMS ... 101
Incare ... 205
Indostat for Social Sciences ... 205
Indostat OR ... 125
Indostat Quality Perfect ... 125
INDUS ... 125
Industrial PCs ... 89
Industrial Workstations ... 34
Infinity ... 36
Influx ... 89
Infomax FAX Gateway ... 103
Infomax Internet Gateway ... 137
Infomax Messaging System ... 137
Infomax WAN Gateway ... 137
Informix ... 137
Infowiz ... 135
Inmarsat Terminals: Type M and C ... 135
Inn Keeper ... 41
Inn-Vention ... 103
Innoware Maths Series ... 205
Innoware Science (Living) Series ... 157
Innoware Science (Material) Series ... 157
Inscriber/VMP ... 157
Inscript ... 169
Insight ... 219
Instant Internet Plus ... 181
Instrucalc For Windows 4.0 ... 41
Integra 4.2 ... 125
Integrated Business Management System ... 135
Integrated Circuit Analyser 1.0 ... 103
Integrated Circuit Equivalent Master 1.0 ... 125
Integrated Circuits 1.0 ... 125
Integrated FA-Fixed Deposit System ... 125
Integrated Factory Management Info System ... 103
Integrated Finance System ... 205
Integrated Hospital Information System 3 ... 89
Integrated Share-Debenture Transfer System ... 205
Integrated Standard Banking System ... 103
Integrated System for Non Banking Finance Company ... 103
Integrus ... 103
Intel Box Pentium ... 57
Intel EtherExpress PRO ... 56
Intel EtherExpress PRO/10 ... 56
Intel EtherExpress PRO/100 Adapters ... 56
Intel LANDesk Management Suite 2.0 ... 171
Intel Proshare Video System ... 137
Intelligent Satellite Unit ... 84
Interactive Voice Response ... 137
Interactive voice response system ... 41
Interbase 4.0 Workgroup Server ... 135
Interface Converter ... 27
Interface Converters ... 41
Internet & Enterprise Encryption Software (RSA) ... 166
Internet and Intranet Servers ... 41
Internet Chameleon ... 166
Internet Firewall - Encryptor Safenet ... 41
Internet Guide ... 157
Internet Suite ... 166
Intersolv SCM Tool ... 141
INV ... 101
INV-Mate ... 101
INVENTA ... 101
Inventory Management Pack ... 103
Inventory Management System ... 103
Inverse 512 kpbs ISDN Multiplayor ... 41
Invest 2.5 on DOS/Windows ... 205
Investment Advisor 1.0 ... 187
Investment Decision Support System ... 181
Investment Management System ... 187
Investwell 2.0 ... 205
Investwell Plus 1.0 ... 181
Invoicing ... 103
ION—Patient Base 1.0 ... 205
IRE-Digtal Signature Authentication Software ... 193
IRIS ... 205
IRIS Explorer ... 125
ISM ... 151
ISM for Video Graphics ... 169

Isolation Transformers ... 169
ISSAC ... 205
Issue Master 1.0 ... 125
Isys 4.0 ... 151
ITM 3296E ... 169
IWare Connect ... 205

Jaleo ... 205
JBackup 1.0 ... 205
Jewellery Shop Accounting ... 205
Junior Study Pack ... 205
Jurgen ... 205

Kapas 1.0 ... 205
KAPITAL 3.3 ... 205
KARAR ... 205
Karyalay 2.00 ... 205
Key Fonts for Windows ... 205
Key forms for DOS/Windows ... 205
Key Project Manager for Windows ... 205
Keyboard ... 205
Keyboard - 101 Key Standard ... 205
Keyboard/Turbo 102 Keys ... 205
KeySkin ... 205
KEYview for Windows ... 205
Khoros ... 205
Kidware for KG ... 205
Kidware for Nursery ... 205
Kidware for STD-I ... 205
Kidware for STD-II ... 205
Kilburn ... 205
Killer 2.0 ... 205
Kindergarten Pack ... 205
Kitret 5.0 ... 205
KNOWVELL ... 205
Knoxcard Lite 6.0 ... 205
Knoxcard Regular 6.0 ... 205
KOMATS ... 205
Kredit ... 205
Kron Data Switch ... 205
Kron Data Switch ... 205
Kron Data Vending Machine ... 205
Kron Data Vending Machine ... 205
Kron Internet Server ... 205
Kron Internet Server ... 205
Kron Mail ... 205
KronEDI/KronForms ... 205

L&T Paragon 36 ... 205
L&T Scribe 36 ... 205
Lab View (400)/Lab Windows CVI ... 205
Label Printer ... 205
Labort 2.0 ... 205
LabView/LabWindows CVI ... 205
Lad-Know Ver 1.0 ... 205
Lahps ... 205
LAN Analyser PCMCIA/ISA ... 205
LAN Connectivity ... 205
LAN Mail ... 205
LAN Programs And Utilities ... 205
LAN Secure ... 205
LAN Shadow ... 205
LAN Station LC 6100 ... 205
LAN Station LM 2430 ... 205
LAN Work Place 5 ... 205
LandScape-S7 ... 205
Larry Magid's Essential Internet ... 205
Lawyer's Personal Case & Citation Info ... 205
Layout ... 205
Laywers Pack ... 205
LDS Powersave ... 205
LEAP ... 205
Leasepack ... 205
Leather Mouse Pad ... 205
Letter Wizard ... 205
Lexmark 2391+ ... 205
LibMan 3.0 ... 205
Libra 22 Trackball ... 205
Libra 90 Trackball ... 205
Libris ... 205
LIC Agent ... 205
LIC Guide 1.0 ... 205
LIC Master ... 205
LIC News 2 ... 205
LIC-MAN 3 ... 205
LifeLine 1 ... 205
LifeSign 7 P ... 205
Lightwave 3D 4 ... 205
Liiput Stabilizer ... 205
Lindo ... 205
Line Driver ... 205
Line Driver - LD01 ... 205
Line Drivers / Linx Series ... 205
Line Drivers LD3115 ... 205
Line Powered Modem ... 205
Linear IC Tester ... 205
Link LU 300 ... 205
LIPI MT 645 ... 205
LIPI MT 661 ... 205
LIPI MT 691 ... 205
Lips Creation Station ... 205
Lips Receiver ... 205
Lone Optimizer ... 205
Longshine ... 205
Longshine ... 205
Lotus Notes Suite ... 205
Lotus Servo Stabilizer ... 205
Lotus UPS ... 205
LP Manager ... 205

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

	205
	193
	151
	61
	61
	61
	61
	139
	52
	169
	169
	151
	207
	59
	52
	193
	65
	65
	65
	65
	65
	65
	65
	125
	207
	207
	139
	160
	171
	77
	207
	105
	141
	160
	183
	125
	183
	193
	207
	207
	125
	125
	65
	207
	207
	160
	36
	36
	36
	183
	105
	105
	207
	105
	160
	160
	125
	135
	52
	52
	52
	141
	52
	52
	65
	84
	47
	47
	47
	47
	47
	207
	93
	160
	39
	219
	169
	169
	207
	219
	207
	207
	125
	103
	207
	207
	207
	187
	139
	183
	52
	79
	79
	207
	125
	125
	207
	89
	105
	105
	105
	36
	207
	209
	89
	183
	209

Micro Inventory	105
Micro Membership monitoring	105
Micro Office	105
Micro Payroll	36
Micro Range PC'S	105
Micro Sales Monitoring	36
Microhard	36
Micronics 486/66 MHZ Computer System	36
Micronics Pentium 100 MHz	36
Micronics Pentium 25 MHz	36
Micronics Pentium 60 MHz	82
Micropolis High Capacity Hard Disk Drives	127
Microsim PC Boards	125
MICROSIM PLSYN	127
Microsim Polaris	125
MicroSim PSpice A/D 6.3	127
Microsim Pspice A/D Basics + with Schematics	127
Microsim Pspice A/D with Schematics	127
MicroSim PSpice Optimizer 6.2J	127
Microsim Schematics	36
Microstuf 486DX2	36
Microstuf P-100	36
Microstuf P-60	36
Microstuf P-75	65
Microtek Offline UPS	36
MicroWorld	169
MIDI Music Gallery	105
Mike Soft Real Estate Package 7A	103
MILCAN 2.0	209
Milestone	89
Miller 3.0	160
Millie's Math House	84
Mini Data Logger	127
Minicad Ver.6.0	147
Minihelp Plus Ver.3.21	127
Mipower	105
Miracle	207
MIS for Leather Industries	127
Misim	209
Miss	127
Mitrip	103
MKFDS 1.0	103
MKPAY 1.0	207
MKTAS 3.0	139
MMAIL	171
MMax Lite 1.1	183
Mobicom 1.0	209
Mobile	127
Model Order Reduction Toolbox	127
Modes 4.0	73
Modi Xerox JP 450	89
Monac	209
Money Maker 1.0	209
Money Market 1.0	187
Money Mint 2.0	209
Money Multiplier 1.0	105
Moneyman BDS	105
Moneyman FAS	105
Moneyman HMS	105
Moneyman ICDS	105
Moneyman LMS	189
Monitor	51
Monitor Manufacturing Instrument	51
Monitors (DFL)	47
Moon 28.8 Fax	39
Moon Pentium Notebook	160
Morse Trainer 5.0	47
Motorola 326X Fast And SDC	47
Motorola FasTalk Plus	47
Motorola Fastalk Premier	47
Motorola Lifestyle	61
Mouse	27
Mousepads/Printer Ribbons	52
MOVE	54
Movie Wave Interactive Plus (Multi Wave)	52
MPEG Lab Suite	52
MPEG VideoPro	52
MPEG-1/EX Video Communication Links	207
MRP 9000	207
MRP-III	207
MRP-Material Resource Planning	135
MS Access 2.00	189
MS DOS 6.22	189
MS DOS 6.22-RUP	61
MS Easyball	160
MS Encarta 1995	175
MS Excel 7.0	135
MS FoxPro (DOS)	160
MS Infotainment CD-ROMs	160
MS Magic Bus CD-ROMs	139
MS Mail 3.5	89
MS Money 3	61
MS Mouse	160
MS Multimedia CD-ROMs	29
MS Natural Keyboard	175
MS Office 4.2 Standard	175
MS Office 95	175
MS Office Professional 4.2	103
MS Project	151
MS Publisher 2	52
MS Sound System	141
MS Source Safe	135
MS SQL Server 6	65
MS UPS	141
MS Visual Basic 4	141
MS Visual C++ 1.52	141
MS Visual Test 4	189
MS Windows 3.11	189
MS Windows 95	189

MS Windows 95 Upgrade	189
MS Windows NT Server 3.51	189
MS Windows NT Workstation	219
MS Word 6	71
MSP 145 PLUS	71
MSP 145 Plus	71
MSP 155/255	71
MSP 240 - 9 PIN 80 COL. DMP	71
MSP 255	59
MT 360	207
MTO Master 1	183
Mukhakriti 1	139
Multi Express Fax Server	43
Multi Plexer	171
MultiCom AsyncGateway	139
Multicom RN Gateway	36
MULTICOM-486	139
MultiExpress	171
Multimedia Productivity Pack	171
Multimedia Toolbook	171
Multimedia Toolbook 3	169
MULTIMEDIA TOOLBOOK 4	47
Multimodem 2DXI 2834	56
MultiPlexers MD Series	54
Multiprompter	56
MultiRouter	219
MultiScript 2	31
Multiserial I/O Card - PA-EC-8D2K	160
Music Maker Pack	209
Mutual Fund Advisor 1	160
My First Incredible Amazing Dictionary	160
My First Picture Dictionary	187
Mybook	
NAG Fortran Library Mark 16	147
NAG Graphics Library	147
Nash Link	171
Nashield	193
Nashot NLM	93
Nashpack 3	93
NAV NLM	93
NEC DOT MATRIX PRINTER P-1200	71
NEC DOT MATRIX PRINTER P-3900	71
NEC Multisync XE 21" Monitors	51
NEC Pinwriter P1300	71
NEC Pinwriter P2000	71
NEC Pinwriter P7300	71
NEC Pinwriter P8000 24-Pin DMP	71
NEC Super Script 660 i	73
NEC SuperScript 610 Plus	73
Neelam 16 PNP	54
Net Audit	171
Net Menu	171
Net Ranger	84
Net Watch	171
Net-Data Alarm & Remote Boot Switch	56
Net-Prot NLM for Netware 6 (2 Free Updates)	93
NET/X	171
Netcnf 1	105
NetRemote	173
Netsafe	65
NetScape Commerce Servers	166
NetScape Communications Servers	166
NetScape Mail Servers	166
NetScape Navigator	166
NetScape News Servers	166
NetScape Proxy Servers	166
NetshieldServer 2.3	93
NetTools	193
NetWare 4.1	189
Netware Connect 2	173
NetWare MultiProtocol Router 3	173
NetWare Web Server	166
Network Anywhere	173
Neural Network Toolbox	127
New Sketch 1212/1812D (GENIUS)	59
News Agent	105
News Server 6.01	183
Newsman 1.2	209
Nexus Printer Server	27
Nidhi 3	89
Nirdeshik	187
Nirmals 4.2	209
NISA	127
Nisa Family of Finite Element Programs	127
NISA II	127
No*stop Networks	173
Noise Figure Meter	84
Nomus 1414 PC	47
Nomus 1414 SD	47
Nomus 1414 SE	47
Nomus 1414 SI	47
Nomus 144 RK	47
Nomus 2814 PC	47
Nomus 2814 SD	47
Nomus 2814 SE	47
Nomus 2814 SI	47
Nomus 288 RK	47
Nomus 9624 SE	93
Norton Administrator 2.0	93
Norton Anti-Virus for DOS/Windows	93
Norton Antivirus 3.0	193
Norton Backup 3.0	193
Norton Commander 5.0	193
Norton Desktop 3.0	193
Norton Disklock 3.0	175
Norton Editor 2.0	173
Norton PC Anywhere for DOS Ver 5.0	173
Norton PCAnywhere 2.0	

Norton Utilities 8.0	193
Novel A/C Systems 3.1	89
Novell GroupWise 4.1	164
NovGuard	93
Novo 130	71
Novo 230	71
Novo 300	73
NRI 1.0	209
NT Dream Machine (ALPHA)	36
Numeric UPS	65
NumroSoft 1.0	183
OA	105
Object Team Application Factory	147
Object Team Enterprise	147
Object Trieve	189
Octopus-E	105
Odips	175
Office Strength 1.0	175
Office Worx 1.1	175
OHRA Tool Kit	127
OM 96	105
Omni 395 (VeriFone)	36
Omni 460 (VeriFone)	59
Omni Pad Digitizer	59
Omni Pro 450	65
Omnipage Prof. 6.0	183
Omnipower Servo Voltage Regulator	65
Online	36
Online Integrated Software	105
Online System	65
Online UPS	65
ONLINE-SPC	127
OnNET for Windows 2.0	173
Ontrack Data Recovery for NetWare	173
Open GL	171
Open Inventor	127
Optical Serial Isolators	65
Optimization Toolbox	127
Optimizer	129
OPTRA C	77
OPTRA E	77
OPTRA R+	77
Optra-R	77
Oracle 7	135
Oracle Work Group/2000 & Developer/2000	135
OrCAD / PLD 386+/DOS	129
OrCAD CAPTURE for Windows	129
OrCAD SIMULATE for Windows	129
OrCAD/Layout/Windows	129
Order Processing	105
Organiser II LZ	41
Organizer	187
Orion 95 Gamepad	61
Orthopack 1.0	209
Oscam v3.0	129
Osmec v3.1	129
OTC 850XL	71
PA-EC-16D2K	56
PA-EC-16R2K	31
PA-EC-8R2K	31
PADS-2000	129
Pads-PowerPCB	129
Pagekeeper Ver.2.0	175
Paintbrush	151
Pairing Game	160
Paisa 1.0	209
PALTER	59
Panasonic CD-ROM Drive	29
Panasonic Power Drive 2	82
Paradox with Ease	160
Paridhan Ver.1.00	107
Parth 1.0	209
Pascal Programmers' Kit	147
PathLab 1.0	209
Patriot-250 VA	65
Pawn Master	107
Pay-Mate	107
Payman	209
Paymaster 3.0	107
Paypack	107
Paypaket	107
Payroll	107
Payroll	107
Payroll	107
Payroll Management System	107
Payroll System	107
Payroll System (PR-96)	107
PC 101 Keyboard	29
PC Basics 2.00	160
PC Cases	59
PC Guard Plus 2.0	93
PC NFS Pro v2.0/ TCP/IP and NFS	173
PC Share Switch	43
PC Sharer KC201	59
PC/AT 486DX2	36
PC/TCP Network Software for DOS	173
PCD 4ND	41
PCD 5ND	41
PCS 2.00	105
PCS 466 CAT	36
PCS 5100 PI	36
PCS 575 PI	36
PDPM	129
Pelorus	129
Penta Vision ID Card System	183
Pentium Delight	37
Pentium Motherboard	59

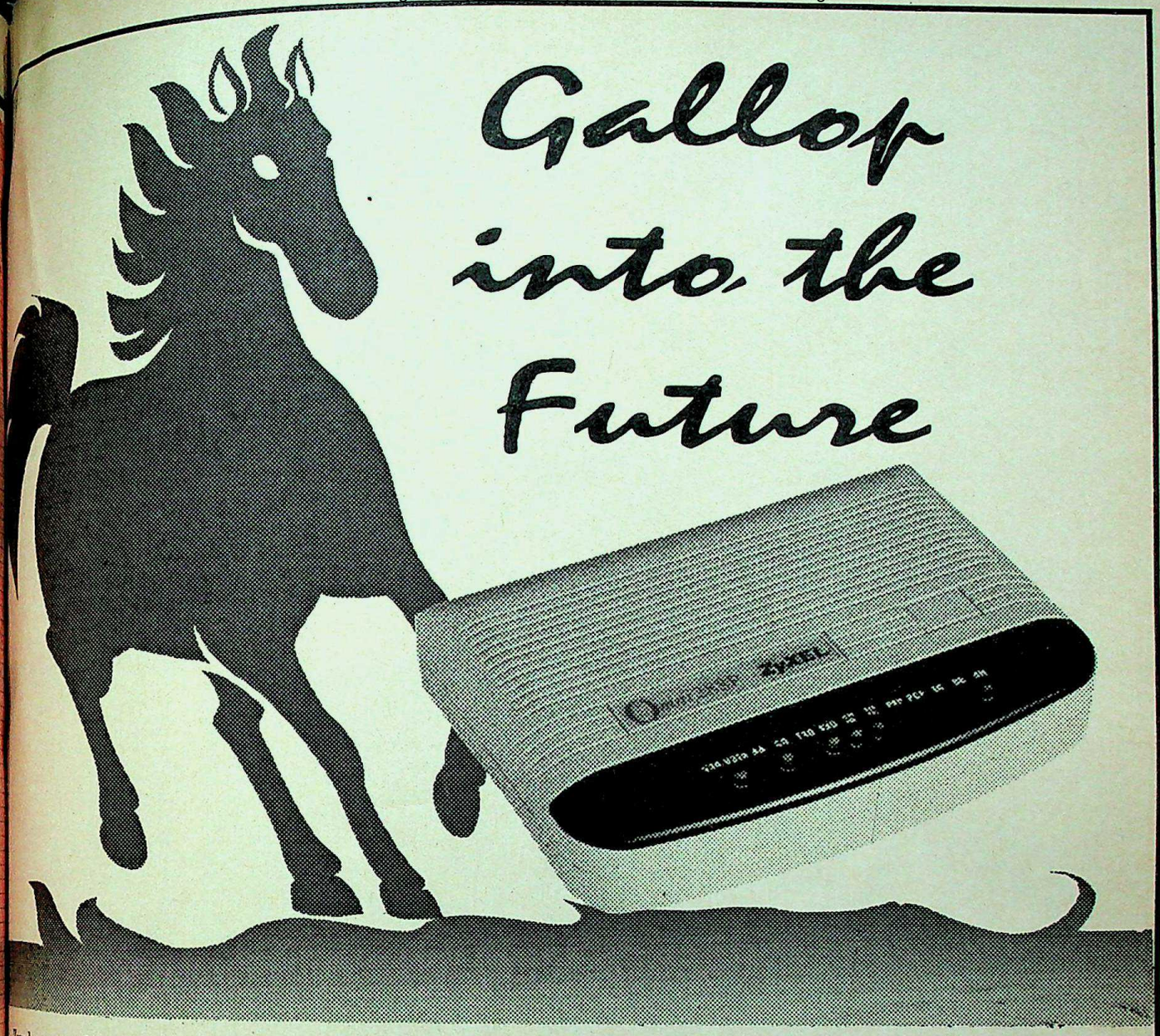
CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Pentium Multimedia ... 37
Pentium Systems ... 37
Perfect Backup And Store ... 193
Perfect Bankco ... 107
Perfect Payroll System ... 209
PersESS ... 209
PersESS on Foxpro ... 209
Persona 96 ... 209
Personal Accounting System ... 187
Personal Animation Recoder-DR 3100 ... 54
Personal Designer ... 129
Personal Diary ... 187
Personal Machinist ... 209
Personal Memo Banker 1.01 ... 187
Personal Resources Planner for Windows ... 187
Personal Secretary 2.0 ... 107
Personal Telecom Manager (PTN) ... 139
Personality 1.0 ... 183
Personality Analyzer 2.0 ... 183
Personnel Attendance Register ... 107
Personnel Data Management System ... 107
Personnel Information System ... 209
Petty Cash System ... 107
PFAR ... 65
PHARMACC ... 209
Pharmist Ver.1.0 ... 107
Phast ... 129
Philips 14I ... 51
Philips 15A ... 51
Philips 17B ... 51
Philips 20C ... 51
Philips 21B ... 51
Phoebus ... 65
Phoebus Plus 500 UPS ... 65
Phoenics ... 129
Phone+Aid ... 187
Phonic ... 175
Phono Drill ... 160
Physics Tutor ... 160
Picture Publisher 5.0 ... 151
PID Controller - CS7542-96 ... 84
PIIA ... 105
Pipenet ... 129
Piping/Plumbing/Electric/HVAC-S7 ... 129
Pixelcraft Scanners ... 79
Pkware Products ... 193
Plans & Elevations S7 ... 129
Plant Management System ... 209
PlantCare ... 209
Platinum Desktop DBA ... 137
Platinum SQL Coder ... 147
Platinum SQL Commander ... 137
Platinum SQL Port ... 137
Platinum SQL Spy ... 193
Platinum TSreorg ... 193
Plotter Buffers ... 77
Plurys ... 65
Plutus-BAS ... 211
Plutus-CAS ... 211
PMS ... 209
PMS 1.0 ... 107
Point Of Sale System ... 107
Point-of-Sales System ... 107
Port Lock ... 59
Portable Humidity Indicator ... 84
Portfolio Advisor 1.0 ... 211
Portfolio Analysis 2.0 ... 211
Portfolio Manager ... 211
Portman ... 175
PostSUITE ... 37
Power 1.1 ... 89
Power Bank ... 65
Power CAD-Draft 4.3 ... 129
Power Conditioner ... 65
Power Guard ... 66
Power Guard With Auto FAX ... 43
Power Mail ... 187
Power Manager UPS ... 66
Power Meter ... 84
Power Mon II ... 183
PowerBuilder 4.0 Desktop and Enterprise ... 147
Powercom UPS ... 66
PowerCom UPSs ... 66
Powercon UPS ... 66
Powergen-EPS System ... 66
Powerguard 1 kVA ... 66
Powerline Financial Services ... 89
PowerLISP 2.0 ... 135
Powerlite Offline UPS ... 66
PPC 2.0 ... 107
Prakashak 3.2 for DOS ... 151
Prakashak 5.0 for Windows ... 151
Prakashak Mac 1.0 ... 151
Prams ... 211
Prateek ... 211
Pratibha 1.0 ... 211
Preactor 200 ... 107
Prefect 1.1 ... 107
Premium 1.0 ... 211
PREMMIA GX P/133 - MODEL 1600W ... 36
Presex 1.0 ... 183
PressWorks 2.0 ... 151
PressWorks PowerPack ... 151
Pressworks Star Collection ... 187
Primera PQ ... 79
Primera Pro ... 79
Primera Pro Mac ... 79
Primergy-150 Servers ... 37
Primergy-350 Server ... 56
Print Quality Enhancer ... 195
Printer ribbons for DMP and Inkjet ... 68
Printer Sharer ... 27
Printer Sharer (AL261 & AL461) ... 27
Printer sharer (PS21MA) ... 27
Printer Sharer (Serial) ... 27
Printer/Plotter Buffers ... 71
Printronix Line Matrix Printer Model-P3040 ... 77
Printronix Line Matrix Printer Model-P4008 ... 77
Printronix Line Matrix Printer Model-P4212 ... 77
Printronix Line Matrix Printer Model-P4280 ... 77
Printronix Line Matrix Printer MVP - LI50B ... 77
Prioris HX & Prioris HX-MP Server ... 56
Prioris LX 575/590/5120 ... 37
Prioris XL Server ... 37
Pro-Fit 5.5 ... 89
Pro-IV 2.2 ... 147
Procede v3.0 ... 129
Procomm Plus 2.11 ... 139
Prodmaster ... 131
Production Planning And Scheduling ... 107
Professional XL Version ... 131
Profile 5.0 ... 211
Profile Man ... 211
Profile UPS System ... 66
PROFIT ... 89
Profit 1.0 ... 211
Profitline Auto Spares Management ... 211
Profitline Bill Of Materials ... 107
Profitline Car Rental Management ... 211
Profitline Distribution Management ... 107
Profitline FA ... 91
Profitline Hospital Management ... 211
Profitline Hotel Management ... 211
Profitline IBM ... 91
Profitline Inventory Control ... 111
Profitline Payroll ... 111
Profitline Personnel Information ... 175
Profitline Restaurant Management ... 211
Profitline Retail Business Management ... 111
Profitline Sales Invoicing ... 111
Profitline Sales Order Processing ... 111
Profitline Telephone Call Analysis ... 195
Programmer 31 Model - CS-7594 ... 84
Programmer's Editor 2.1 ... 147
Progress V.8 ... 137
Project Monitoring Accounting Systems ... 111
Prolinea 5100e M1060 ... 37
Prolinea 575e ... 37
Prolink Modem ... 47
Protocol Converter ... 43
Proxima/2 ... 131
PS Software Package 2.0 ... 107
PTC-912 ... 59
PUB+ ... 107
Publisher Design Pack 2.00 ... 151
Pulsar ... 54
Pulse ... 211
Pumpeng 1.0 ... 131
PumpGraph ... 131
Purchase Order ... 111
PV Designer v4.13 ... 129
PVR 3500 PAL ... 54
Q&A 5.0 ... 137
Q-25 ... 71
Qcopy 2.0 ... 195
QEMM 8 ... 195
QI Analyst 2.0 ... 131
QNX Operating System (Real Time Operating System) 189
QPA 2.3 ... 211
Qualit Offline UPS ... 66
Quality Online UPS ... 66
Quantum Active Voice Modem ... 49
Quantum Bigfoot 1.2 GB/2.5 GB AT ... 82
Quantum Fireball TM Series 2.1 GB/3.2GB AT ... 82
Quark-Pro ... 211
Quarterdeck Mosaic ... 166
Quattro Pro 6.0 ... 175
Quick Account ... 91
Quick Accounting AX 1.0 ... 91
Quick-FA Release 4 ... 91
Quickpay 2.3 ... 111
Quiz Master 1.0 ... 160
Racsma CBT Packages ... 160
Racsma College Administration ... 211
Racsma Computer Engineering 3.0 ... 160
Racsma Electronics 3.0 ... 160
Racsma Kindergarten Set 3.0 ... 160
Racsma Library Administration 2.0 ... 211
Racsma Managing Directors Set 2.0 ... 187
Racsma Marketing Set 2.0 ... 111
RAMplifier'95 ... 195
Rang 1.0 ... 183
Rangoli 1.1 ... 151
Rastation Edit V 1.0 ... 131
Rational Rose/ADA ... 147
Rational Rose/C++ ... 135
Rational Rose/PowerBuilder ... 147
Rational Rose/SmallTalk ... 147
Rational Rose/SQL Windows ... 137
Ratna 1.0 ... 183
Razor Pro & Speed Razor NLE ... 171
Razor Professional ... 171
RC Analysis Suite 1.0 ... 131
RC Design Suite 1.0 ... 131
REACT ... 137
Read, Listen and Learn-MUPPETS ... 160
Ready Fact 2.5 ... 91
Ready Facts ... 91
Reagent ... 111
Real-CM ... 211
REALFDR ... 211
Realplan Ver - EP2 ... 111
Recognita Select ... 187
Recotek Time and Attendance Access Control System ... 183
Red-Armour 2.20 ... 59
RedAlert 5 ... 93
Registrar to an Issue Category -2 ... 93
Remote Access Servers ... 211
Rental Property Management System ... 56
Reporter ... 111
RESQ ... 211
RFMS ... 195
Ribbon for Data Products B300/600 ... 111
Ribbon for DFX 5000/5000+/8000 ... 68
Ribbon for Epson LQ-100 DMP ... 68
Ribbon for EX 1000 & Equivalent Models ... 68
Ribbon for FX 105 & Equivalent Products ... 68
Ribbon for LX-800 & Equivalent Printers ... 68
Ribbon for Wipro LQ1050 - Printer ... 68
RING JADE 4012PM ... 68
RIP Software - Harliquin Level-II ... 68
RO ... 151
Rockwell 14.4 kbps ... 211
Roman 1.0 ... 49
Roster 2.0 ... 111
Roulette 1.0 ... 111
RS232/V.35/RS422 Auto Fall Back Switches ... 164
RS486/RS422 ... 43
RTWO 1.0 ... 31
Saber LAN Workstation ... 173
Safekey/Safekey Plus 1.00 ... 195
Safety Classic/Micro/Toolkit ... 195
Sagitta Color Scanner ... 131
Sagitta Gray Scanner(hand held Scanner) ... 79
Sal-Mate ... 79
Sales And Distribution Package ... 111
Sales Manager ... 111
Sales Order ... 111
SAM DOSACC v5.0 ... 113
SAM WINACC v2.0 ... 91
Sammy's Science House ... 91
SAMS ... 160
Samudrik Sastra 1.0 ... 211
San-Pharma 2.0 ... 183
SAS Software ... 214
Sats Share Transfer System ... 175
Savmor Ribbon Re-Inker ... 214
Scan Mate Colour (GENIUS) ... 59
Scandex Point Of Sale 2.1 ... 79
ScanMaker 35t ... 113
ScanMaker 45t ... 79
ScanMaker II ... 79
ScanMaker II HR ... 81
Scenic - 4H/PCI ... 81
Scenic - 5H/PCI ... 37
Scenic 4H/PCI ... 37
Scenic Pro C5 ... 37
Scenic Pro M5 ... 37
Scheduler ... 37
School 1.1 ... 214
SchoolMan 4.0 ... 214
Science Booster Set ... 214
SCO Airbag ... 160
SCO ODT ... 195
SCO Open Server Enterprise System ... 189
SCO Open Server Enterprise System Server Rel.5.0 ... 189
SCO OpenServer Host System ... 189
SCO OpenServer Release 5 ... 189
Scorpious 101 Keys Keyboard ... 61
Scorpious 60 ... 29
Scorpious KeyPen ... 61
Scout ... 195
Scrip Watch ... 214
Scrip Watch Windows ... 214
Seafrate ... 214
Seagate Frye Utilities for Networks ... 173
Seagate HDD 630 MB ... 82
Seagate Software ... 195
Seaware Nursery Park-2 ... 160
Seaware Primary Park-1 ... 162
Seaware Primary Park-2 ... 162
Seeze ... 173
SEHI-24 ... 56
Semiconductor Advisor 1.0 ... 214
Semiconductor Analyzer 1.0 ... 214
Semiconductor Master 1.0 ... 214
Sems ... 113
Sentry ... 27
Serial I/O Cards ... 31
Serial Port Isolator ... 27
Serial Port Opto Isolator ... 43
Serial Sharer ... 27
Server Manager ... 56
Service Information System ... 214
Service Management ... 214
Servisys ... 214
Sevo ... 214
SG-1000 ... 29
Sharacct 2.1 ... 214
Share Management System ... 214
Share Market Advisors 1.0 ... 214
Share Market Analyzer 1.0 ... 214
Share Mon 2.0 ... 214
Share Port ... 214
Share Transfer 1.3 ... 214
Share Transfer Agent ... 214
Share Transfer Package ... 214
Share Vision PC 3000 ... 214
Sharebrokers Pack ... 214
Shareholder Details ... 214
Shareman ... 214
Sharesoft 9.1 ... 214
SharESS ... 214
Sharevision PC 300 ... 214
ShawMan Point of Sale Management Sy ... 214
Ship Expo ... 214
SHIP-FA ... 214
Showntheme ... 214
Shree Lipi ... 214
Shreeji Portfolio Analyst 2.0 ... 214
Shubh Labh 3.2 ... 214
Sidebar 1.0 ... 214
SIGKS-3D ... 214
Siglab 20-22 ... 214
Sign Master 1.0 ... 214
Signal Conditioner (SC00) ... 214
Signature Analyzer 1.0 ... 214
Signet ... 214
Signstar ... 214
Signum ... 214
Sigraph ... 214
Sigraph ET/S ... 214
SIGRES ... 214
Sigshare ... 214
Silicon Graphics Workstations ... 214
Silverrun ... 214
Simatics-10762.0 ... 214
SIMM Modular Converter ... 214
Simm Modules ... 214
Simsex ... 214
Simulation Pack ... 214
Simulink 1.3c ... 214
Single Mode Fiber Transceiver (Non-Pow ... 214
Single/Multi Mode Fiber Converte ... 214
SIR 1.0 ... 214
SiteExpress ... 214
SiteMeter ... 214
Sitenet 1 ... 214
Sitenet 2 ... 214
Sivu Bank ... 214
SIVUBILL ... 214
SM Range ... 214
Smart Access ... 214
Smart Accounts ... 214
Smart Desk ... 214
Smart Executive ... 214
Smart Guard ... 214
Smart Switch Plus ... 214
Smart Talk 9000 ... 214
Smart UPS ... 214
Smart-MRP ... 214
SmartDeal CS ... 214
SmartDeposit ... 214
SmartDiscount ... 214
Smartdog Data Security System ... 214
SmartFund ... 214
SmartLease ... 214
Smartlink ... 214
SmartSchool ... 214
SMPS/VIP-ST 230PS ... 214
Smruti 1.0 ... 214
SNA Peer Server ... 214
Society Accounting ... 214
Society Accounting System (SAS) ... 214
Sofist Accounting Control ... 214
Soft Jurist ... 214
Softext 2.0 ... 214
SoftMoney ... 214
Softree ... 214
Software for Banking Operations ... 214
Software for Gauge Calibration for 12 ... 214
Software for Schools ... 214
Software System for FDR-Broker ... 214
Soham ... 214
Solaris 2.5 ... 214
Solcalc 1.0 ... 214
Solid State Stabilizer ... 214
Sony CD ROM ... 214
Sony CD ROMs, Optical Disk Drives ... 214
Sony CD-ROM Drives ... 214
Sony Data Media ... 214
Sony Magneto Disk Drives ... 214
SoulMate 7.10 ... 214
Sound Blaster Cards ... 214
Sound Cards ... 214
Sound Exchange ... 214
SoundBlaster Utilities ... 214
Source-2 Online UPS System ... 214
SP-2400 ... 214
SP-Cash ... 214
SPA Micro PLCs ... 214
Spacesage Terminal Server ... 214
Spans Explorer ... 214
Spares Management System ... 214
Sparrow PC-AT 486 ... 214
Spevisor - 300 ... 214
Spc-01 Serial to Parallel Converter ... 214
Special Interest Pack ... 214
Specialist for Windows ... 214
Specstore External CD Write-Scsi/Ide ... 214
Specstore External Disk Drive Scsi/Ide ... 214
Specstore External SCSI CD-ROM Drive ... 214
Specstore-CD ROM External Drive Scsi/Ide ... 214

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

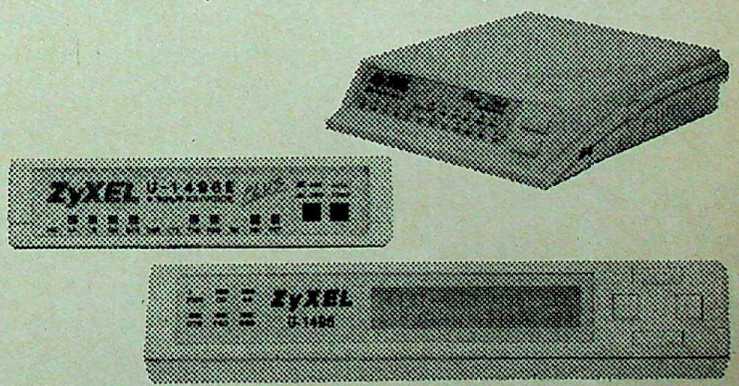
Digitized by Arya Samaj Foundation Chennai and eGangotri



Zyxel range of modems offer you an outstanding choice for your requirements. The extra functionality coupled with astounding speeds and foolproof reliability have made Zyxel modems a product of international repute (A number of BBS operators will vouch for and second our claims)

The latest addition to the Zyxel family, OMNI 288 V34/Fax/Voice Modems - is a proof of commitment to customers needs with highly advanced technology, to suit Voice/Data/Fax requirements. By conforming to the latest protocol available and providing convenient voice/message inputs+outputs, the OMNI surpasses all competition. In addition to its TAPI support, the call back security and password protection features make the OMNI unique. Above all, the salient fax functions prove the far reaching capabilities of the OMNI. Omni is a proud new addition to the existing range of models consisting of *Elite 2864 V.34 / FAX / Voice / ISDN Upgradeable, U-496E Plus, Plus Enhanced U-1496.*

The entire plethora of Zyxel modems offer a tremendous value for money with the incredibly low prices.



Rush with your requirements to:

Xon Communications (India) Pvt. Ltd.
No. 19, Casa Major Road, Egmore, Madras - 600 008.
Ph.: 8258336 / 8260124. Fax : 6263184 / 8554930.

APARNA/XC/010/96

DEALERS : **Ahmedabad** : MICROWARE, Ph: 079-407772, **Bangalore** : Xon Communications (India) Pvt. Ltd., Ph: 080-5255358, OPTIONS, Ph: 080-5254204/5279141, ZAX BUSINESS SYSTEMS, Ph: 562759, **Bombay** : SIGMA CONTROLS, Ph: 8723706/8733623/8733682. **Coimbatore** : INFONET SERVICES, Ph: 0422-213319/211973, **Guwahati** : UNIMATION INDIA, Ph: 0361-520889, **Gujarat** : Vallabh Vidya Nagar, MICRO MEDIA SYSTEMS, Ph: 02692-46531, **New Delhi** : EDP AIDS PVT. LTD., 6853192/6846299/6846793. **Patna** : SILICON ORCHARD, Ph: 0612-224391, **Pune** : CTECH SERVICES, Ph: 0212-456617, **Vapi** : ADVANCED MICROTECH, Ph: 0261-427320.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Specstore-DAT External ST001536-SES 2GB/4GB 82
Spectra Physics HS 1250 Scanner 81
Spectrapower UPS 66
Spectrum Element Manager 173
Spectrum Element Manager 183
Speed 215
Speed Razor-Mach III 171
SpeedStar 64 59
Spell-Boom 162
Spinpack 215
Sports & Hobby 162
Spreadsheet Kit 179
SPS 600 66
SPSS 6.1 131
Spyglass Transform 1.0 131
SQA TEAM Test 147
SQL Base 6.0 137
SQL Server 6.0 137
SQR Workbench 3.5 131
SS401 27
ST 360 59
ST Range 66
STAAD-III Rel. 2.1 131
Staffware 179
Stage 1.0 215
Star 66
StarClock 2.10 183
Stateman 183
Static Voltage Stabilizer 66
Stealth SE 31
STEC 131
Steel Detailer-S7.5 131
Stellar 5.0 195
Stock Control 113
Stock Ver.6.00 113
Stock+ 1.0 215
Stocks 1.0 113
Stone Ver.1.0 113
StorESS 113
Storm 147
Story Book Weaver Deluxe 162
Strata Instant Replay 195
Strata Media Forge 171
Strata Studio Pro Ver.1.75 171
Strata Vision 3D V 4.0 171
Strategy 113
Studio Pro Ver.1.7 BLITZ 171
Study Pack-STD III 162
Study Pack-STD IV 162
Study Pack-STD V 162
Study Pack-STD VI 162
Sub Broker 2.0 113
Success Planned! v1.1 179
Summa Expression, Summa Flex 61
SummaCut D15 and D500 59
SUPAC 2.0 91
Super 91
Super All India Yellow Pages 183
Super Card 2.5 171
Super I/O Card 31
Super Pointer UFO 600 61
SuperBuzz 215
SUPIN 2.0 111
SUPIT 2.0 111
Suretrak Project Manager 179
Survcalc 1.0 131
Survey S7 133
Svapan Vigyan 1.0 183
SVGA Color Monitor 51
SVGA Monochrome Monitor 51
Swastik V 2.1 91
Switch Master (Router/Bridge/Switch) 57
Switch Mode Power Supply (SMPS) 200W 66
Switch Mode Power Supply (SMPS) 250W 66
Switch Mode Power Supply 70W 66
Sy-701 Time And Attendance System 113
Sybase SQL Anywhere 137
Symantec C++ Professional 7.2 135
Symplan 217
Synergy Gold 217
Synergy Smart Power 625 66
Synoptics 2813 Ethernet Hub 57
Synthesis for Windows Ver.3.51 147
Syquest EZ HardDisk (Removable) 82
Syquest EZ HardDisk Cartridge - Removable 82
Sys-Switch 59
Sysguard 66
Syslock-B 31
Syslock-Net 31
Syslock-S 31
Syslock-T 32
System Utilities 195

Talent 217
Talent Search 183
Tally 5.0 91
TAN PRO 217
Tandberg Data QIC Tape Drives 82
Tandberg Panther Mini TDC 3720 2GB or 4.6GB 82
Tape Shuttle 1.2 GB 82
Tape Shuttle 250 MB 82
Tape Shuttle 525 82
Tape Tell 195
Tar Check 195
Targa 200 Pro PCI 54
Target 5.0 91
Target-Integrated Software 5.0 91
Taxcal Super 96S 217
Taylor-II 133

TDR LAN Scanners/Bert Testers 84
TDS—Tax Deduction at Source 217
Teac FDD 1.2 MB 82
Teac FDD 1.44 MB 82
Teacher's Tool Kit 162
Teal Link 2288 E 43
Team Link 2144 E 43
Team Work 147
TeaPack 217
TEC Inventory 1.0 113
TEC Xraywell 3.1 217
Tecjet 133
Tektronix Phaser 140 Colour Printer 73
Tektronix Phaser 240 Colour Printer 79
Tektronix Phaser 300i Color Printer 73
Tektronix Phaser 300i Colour Printer 79
Tektronix Phaser 340 Colour Printer 77
Tektronix Phaser 440 Colour Printer 79
Tektronix Phaser 480X Colour Printer 73
Tektronix Phaser 550 Colour Printer 77
TeleCommander 3500XL 43
Telenoss 1.0 217
Telephone Directory 187
Temperature Calibrator Model - CS 75494 84
Temperature Measurement & Control Equipment 84
Temperature Programmer 84
Tensai GS 2415 71
Tera Font 151
Testing Tools for Windows 195
TestView 147
Tett Com 139
Tex Pro 217
Texman 113
Texquota 217
The Banker 217
The Builder 217
The DSP Blockset 133
The Guardian Sleek UPS Systems 66
The Ultimate Human Body 162
The Way Things Work 162
Thermal Transfer Barcode Ink Ribbons 70
Thinking Things 162
Third Eye 217
Tibs 5.0 113
Time-Table Generator for Schools 1.0 217
Timing Designer 3.0 147
Tips API 147
TMA 91
TMA Workstation 133
ToolBox, Power Transmission 133
Top Secret 195
TOTAL 91
Total 2.04 91
Total Integrated Business System 115
Total Plan 2.5 187
Touchkey 3-in-1 91
Touchkey Inventory 2.0 115
Touchkey Manufacturing Inventory 115
Touchkey Payroll 115
Touchkey Professional 91
Touchkey Trading Inventory 115
Tracer Trio 133
Track 115
TrackI 187
TRACKER for WINDOWS 187
Tradeline 2.0 115
Traget—Point of Sale Ver. 5.0 115
TRAKS 113
Trans-AgentV 1.0 115
Transaction Transport System 1.0 173
Transcomm 139
Transha 3.0 217
Transit 1.0 217
Transmatic Modem 49
Transoft 4000 217
Tranzact 115
Trav'ler Hard Disk 82
TravelPack 217
Trident 9440 PCI VGA 32
Trident VGA Card 32
Trikal Darshi 1.0 185
Trikal Gyani 1.0 185
Trimco 179
Trio Communication Suite 5.0 139
Triple X 96 115
Tripp Lite BC 250 66
Tripp Lite Omni 675 68
Tripp Lite Omni Pro INT 450 68
Trouble Shoot v1.0 133
TRUST 4.5 217
Trust FRM 2.0 91
TTABLE 5 217
Turbo Analyst 3.1 147
Turboterm-2000 Terminal 37
Turboterm-2020 Terminal 37
TV Wonder (Genius) 54
TVSE Keyboard 29
Tyin 2000 49

U FLACKS 133
U.A.V. Ver.1.0 93
UBS-Organizer 187
Ultra Isolation Transformer 84
Ultra Miniature Servo Stabilizer 68
Umax Scanner Gemini D 16 81
Umax Scanner Mirage D-16L 81
Umax Scanner PowerLook II 81
Umax Scanner VISTA 512 81
Umax Scanners 56E 81

Understanding Internet 162
Understanding OS/22.1 162
Unigraphics 10.x 133
Uninterrupted Power Supply - AEGIS 1K 68
Uninterrupted Power Supply - AEGIS 3K 68
Uninterrupted Power Supply - AEGIS 5K 68
Uninterrupted Power Supply System 68
UniSolve 68
Unistab Voltage Stabilizer 115
Unitech Hand Held CCD Scanner 68
Unitech Hand Held laser Scanner 81
Unitech Portable Data Collection 81
Unitech Portable Laser Terminal-PT7 37
UNITS v1.0 37
UNIX 2 UNIX/UNIX 2 DOS VER 2.1 133
Unix at Work 195
UPS 162
UPS Systems 68
UPS-1KVA 68
UPS-500 VA 68
US Robotics Modems 68
UTI Guide 1.0 49
uucpGIFT 217
..... 139

V-655 51
VADS Self for UNIX 195
Value 95 91
Vanakkam 1.0 217
Vanguard 300/305 57
Vastu 185
Vaxine 95
Vaxine NLM 95
VB Compress Pro 3.0 147
VCOMM 139
Vehicle Insurance 217
Vehicle Maintenance 185
Vehicle Sales & Stock 217
VEL 486 SXL 37
VEL 486DX2 37
Vel Notebook - DSTN Colour 41
Vel Notebook - Mono Model 41
VEL Notebook Computers 41
Vel Notebook TFT Colour 41
Vel Pentium 37
Venix Realtime Operating System 189
Venturis 37
Venturis 39
Venturis & Venturis FP 39
Veriwell 2.0-Verilog Simulator 133
Vertigo 151
Vetan 115
Vetan 115
VGA AVer Pro 54
VGA Games 164
VGA to Video Portable PRO 54
VGA/IDE I/O Cards/PCI-VGA 32
Vidar TruScan CS400 81
Video Ver.1.0 115
VideoPlex MPEG-2 Playback Board 54
View Base 4.1 195
Viewsonic 20 PS 51
Viewsonic 4E 51
Viewsonic E-640 51
Viewsonic-17EA 51
Viewsonic-17GS 51
Viewsonic-17PS 51
Viewsonic-21PS 51
Vinca Standby Server 32 57
Virtual Recorder 54
Virtus Walkthrough Pro 2.0 171
Virus Scanners And Vaccines 95
Visio 4.0 179
Visio Technical 4.0 179
Vision CAD Teacher 1.1 162
Vision Cartographer 5.0 133
Vision Coregraph 147
Vision Designer Ver 12 133
Vision Draw 133
Vision GKS 147
Vision GNC 133
Vision IPKS 147
Vision Landscape 133
Vision Office 151
Vision Publisher Professional 151
Vision Surveyor 133
Vision Winterm 340 139
Vision Wordsworth 219
Vision Write 219
Visipak V 8.0 91
Visipak-FA 93
VISIPAK-Payroll 115
Visipak-Payroll 115
Visual Baler 1.0 135
Visual C++ 4.0 147
Visual dBASE 5.5 Client Server with Compiler 137
Visual FoxPro 3.0 137
Visual Workshop for C++ 195
VJ-PDS 115
VJ-STS 4.0 217
VLIDE Card 32
VL VGA Card 32
VM 2310 37
VM 2310G 37
VM 2320 37
VM 2910 37
VM 2910G 37
VM 4005 32
VMAXX-10 162
Vocabulary And Grammar Pack 162

Vocabulary Master 162
Voice Analyser 1.0 162
Voice Man (LAN) 162
Voicexpert-Voice Messaging System 162
Voicexpert-Voice Messaging System 162
Voyetra MIDI Orchestrator Plus 162
Voyetra Sequencer Plus 162
VS 108 162

WAN Router 6520, 6550 162
Waveforms UPS 162
Wavelet Toolbox 162
WaveSwitch 100 162
WB001 Electronic Weigh Bridge Interface 162
WC Software Sampler CD-ROM 162
WDIR 2.5 162
WebAuthor 162
WebCompass 162
WebFORCE 162
WebServer 162
WebStar 162
WebTalk 162
Weighing Machine 162
White Knight 162
Wijet 1200 Plus 162
Win Fax Pro Ver 4.0 162
Win95/Internet Tutors 162
WinCA 208 162
Windows 95 / Internet Tutors 162
Windows Graphic Magic Pack 162
Windows Runner 162
Windows Screamer 162
Windows Utilities Pack 162
WINFA 162
Winfax 4.1 Networks 162
WinGIS 162
Wings 6 162
Wings 6.3 162
WinMaker 162
WinPayroll 162
WINProbe 4 162
WinShare 162
Winwriter 150C 162
Wipro Acer Altos 162
Wipro Genius Writer LJ-40 162
Wipro Genius Writer LJC-310 162
Wipro Genius Writer LJC-5100 162
Wipro Genius Writer LJC-80 162
Wipro Ink Cartridge for Wipro Genius Writer LJ 162
Wipro Ink Cartridge for Wipro Genius Writer 162
Wipro Ink Cartridge for Wipro Genius Writer LJ 162
Wipro Ink Cartridge for Wipro Genius Writer LJ 162
Woodware-Compact Workstation 162
WordPerfect 6.1 162
Workabout 162
Workhorse 162
Workhorse Lite 162
Worldwide 1414-I 162
Worldwide 1414E 162
Worldwide 2814E 162
Worldwide Challenger 192 162
Worldwide Fax on Demand 162
Worldwide ITM 288 162
Worldwide ITM 3296 162
Worldwide Modems 162
Worldwide T-288 162
Worldwide Tips 162
Worth 162
Writeable CD 162
WTE 3296E 162
WTE 3428E 162

X-port 162
X-Vision 162
Xcalibur 162
Xerox 4510 162
XiNET FullPress 162
XLS 8600 PS 162
XPERT 162

Year4You 162
Yojana 162

ZFAX 162
Zoom AF 162
Zoom COMSTAR 162
Zoom Modem 162
Zoom V.32bis 162
Zoom V.34 162
Zoom VFP V.34 (Internal) Model 228-00 162
Zoom VFP V.34 (External) Model 428-00 162
Zoom VFX V.34 (External) Model 428-00 162
Zoom Voice Comstar 14.4 Model 228-00 162
Zoom Voice Comstar 28.8 with DSVD Model 288-00 162
Zoom Voice Comstar 28.8 with DSVD Model 288-00 162
Zoom/Fax Modem VFX (External) Model 528-00 162
Zoom/PCMCIA 14.4C Model 528-00 162
Zoom/PCMCIA V.34C 162
Zoom/Voice 14.4V (External) Model 428-00 162
Zoom/Voice VFP 14.4 with voice/messaging 162
Zy-Anser 2.0 162
Zy-Forex 1.0 162
Zy-Manor 1.0 162
Zy-Marine 1.0 162
ZyXEL Elite 2864 162
ZyXEL Omni 288S 162
ZyXEL U-1496 162
ZyXEL U-1496E 162
ZyXEL U-1496E Plus 162

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

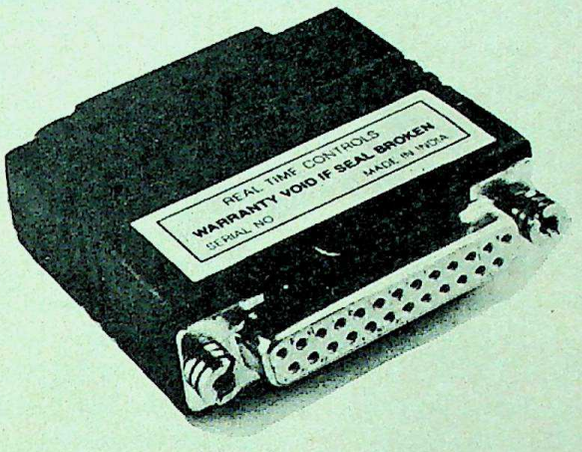
Digitized by Arya Samaj Foundation Chennai and eGangotri

PROTECT YOUR SOFTWARE PRODUCTS

Hardware and software locks for software protection

Supports

DOS
Windows 3.x, 95, NT
Novell Netware
Unix
Linux



Compilers

Microsoft Visual C++
Borland C++
Watcom C++
Clipper
Foxpro
Visual Basic
MS Office Products

Dos Extenders

Pharlap
Rational
Blinker
Causeway
and others

NEW
Hardware lock model ECP-7
Supports software renting
User programmable permanent memory
Facility to Monitor program execution count

Features*

- Each lock is unique and a software protected with one lock will not work with another.
- Automatic installation of normal DOS Executables without need for source code
- Extensive interface library support for all operating platforms
- Facility to upgrade software without recalling the device
- Facility to monitor number of program executions
- Single lock on a network supports multiple workstations
- Specify the number of copies of software that can be run simultaneously on the network
- User programmable permanent memory for customisation
- Hardware lock is transparent for normal printer operations

*Depends on the protection device type and model

Real Time Controls Pvt. Ltd.

9A, 8th Main Road,
VijayaNagar, Velachery
Madras - 42
Ph: 044-2351929, 2352929, 2353647
Fax: 044-2352929
Email: raja@giasmd01.vsnl.net.in

Products and brand names mentioned are trademarks or registered trademarks of their respective holders

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

PRODUCT SOURCES

2001 Electronics, B-308, Sussex Indl. Estate, Dadoji Kondeo X Road Byculla (East) **Mumbai 400027** Tel 3734450, 3731741, Fax 8780982.

AB Computer Applications, L-311, Dua Complex 24, Veer Savarkar Block Vikas Marg, Shakarpur **Delhi 110092** Tel 2464057.

ACS Technologies Ltd, 316, Chandralok Complex, 3rd Floor SD Road **Secunderabad 500003** Tel 845294, 848250, Fax 816960.

ADA Software & Srevices Pvt Ltd, Periyar, 'B' Block, Technopark Campus Karyavattom **Trivandrum** Tel 41897, Fax 417971.

AGM Protection Devices, 252-A/1, Shahpur Jat Near Panchsheel Commercial Complex **New Delhi 110049** Tel 6462240, Fax 6211981.

AIMIL Sales & Agencies Pvt Ltd, Badami Mansions 44 Miller Road, Post Box No 127 **Bangalore 560052** Tel 2265954, 2205982, Fax 2257437.

AK Computers, Raj Complex 39, Sikh Mohalla Main Road **Indore 452008** Tel 531931, 37339, Fax 474815.

AMJ Sanag Micromation Ltd, 402, Paigah Plaza, Basheerbagh **Hyderabad 500029**.

AS Software, 198/16, Ramesh Mkt. Garhi Street No.1, East of kailash **New Delhi 110065** Tel 6476995.

ASCII Computers, 12, Star Apartment, Hira Bag Crossing Road, Opp Saswat Flats Hira Bag Ambawadi **Ahmedabad 380006** Tel 464613.

AST Computer, 27, 80-Feet Road, HAL-II Stage Indiranagar **Bangalore 560038** Tel 5292501, 5292502, Fax 5292503.

ASTRA, 1, Shardaram Park, Sassdon Road Opp Ruby Hall Clinic **Pune 411001** Tel 626788, Fax 621561.

Abcon Information Systems, 508, Brigade Towers 135, Brigade Road **Bangalore 560025** Tel 2270448, 2274342, Fax 2277261.

Accel Automation, 177, 3rd Floor, SFI Complex Valluvar Kottam High Road **Madras 600034** Tel 8276285, 8258658, Fax 8272461.

Accel Computers, 3rd Floor, SFI Complex 179, Valluvarkottam High Road **Madras 600034** Tel 8258658, 8276285, Fax 8272461.

Access Computech Pvt Ltd, 369-378/B-2, GIDC Makarpura **Vadodara 390010** Tel 443307, Fax 443307.

Accountronics, 125, Jinnah Street **Erode 638001** Tel 213141, Fax 213141.

Accura Computer Services, 4 Prathmesh Kutir Captain Sawant Marg, Opp Agarwal Industrial Estate Jogeshwari (W) **Bombay 400102** Tel 6287855, Fax 6287855.

Ace Computers, 4 Parag Building, Parijat Society Near Hotel Welcome Inn **Panvel 410206** Tel 7450233.

Acme Computers Enterprise, 24, Utkarsh Society, Bhuderpura Road Ambawadi **Ahmedabad 380015** Tel 466834, Fax 466834.

Addy Computers, A 10-11, Bhandari House Commercial Complex Dr Mukherji Nagar **Delhi 110009** Tel 7455529, 7121166, Fax 7455529.

Aditech Power Systems Ltd, 9/90, Sasthamangalam **Trivandrum 695010** Tel 68462, 69445, Fax 69456.

Adroit Technologies Ltd, B-4/115, Safdarjung Enclave **New Delhi 110029** Tel 6871553, 6871353, Fax 6117576.

Adtech Power Systems, TC 9/908 Sasthamangalam **Trivandrum 695010** Tel 68462, Fax 69456.

Advanced Micronic Devices, Micronics House No.101, 15th C... Block, Jayanagar **Bangalore 560011** Tel 6653611, 665... 6654249.

Advantage Multimedia, Office Club, Swaroop Complex 41/4... Road **Pune 411004** Tel 332074, Fax 363978.

Akshay Software Technologies Ltd, C/O Bits Business Centre... House Saki Naka, Andheri-Kurla Road **Mumbai 400072** Tel ... 5146414, Fax 5113802.

Al Soft Pvt Ltd, 910, Brigade Towers 135, Brigade Road Ba... **560025** Tel 2278262, 2278263, Fax 2275604.

Albit Electronics Pvt Ltd, B-20, Basement Shakti Nagar E... **Delhi 110052** Tel 7428038, 7428039, Fax 7419039.

Allsoft Computer Consultants, 2-3-527/7, DV Colony, PG R... Man Building, Ground Floor **Secunderabad 500003** Tel 815162, ... Fax 848699.

Alp Hi-Tech Information, 466, Pantheon Road Egmore **Madras ...** Tel 8282396, Fax 6427017.

Alpha Computer Systems, 2/1, Galaxy Commercial Centre ... Road **Rajkot 360001** Tel 55848.

Alpha Computers, 84, 3rd Cross Lavelle Road **Bangalore 5...** 2212117, Fax 2216559.

Alphabetics Pvt Ltd, Gulab Bhawan 6, Bahadur Shah Zafar M... **Delhi 110002** Tel 3319427, 3319924, Fax 3722238.

Alpine Automation, 202/13, Churchgate Chambers 5, New ... Lines **Mumbai 400020** Tel 4132748, 2624560, Fax 2871165.

Alpine Computers, 302, Cisons Complex 150, Montieth Road ... **Madras 600008** Tel 8554228, 8554196, Fax 8552926.

Alpna Electronics, 5/43, Off Apna Bazar Jai Prakash Road And... **Mumbai 400053** Tel 6233991.

Amadeus Enterprises, 202, Monarch chamber, Marol-Maroshi ... Near Maroal Fire Brigade, Andheri (East) **Bombay 400059** Tel 63... New

Amdale Software Technology Pvt Ltd, 12-D, Block H Saket New ... **110017** Tel 6963076, Fax 6226853.

American Power Conversion, B2/2024, Vasant Kunj **New Delhi 11...** Tel 6893507, Fax 6893507.

Ampersand Consultants, C-7, Friends Colony **New Delhi 110...** 6911432, 6925572, Fax 4629275.

Ampersand Software Applicatons, No 68, 14th Cross, ... Nagar **Bangalore 560032**.

Amrita Institute Of Computer Technology, Ashram Lane ... Kaloor **Kochi 682017** Tel 348365, 343453, Fax 340801.

Analog & Digital Systems, 1B, Lavelle Mansion 1/2, Lavelle ... **Bangalore 560001** Tel 2271359, 2210186, Fax 2278478.

Anand Control Systems, D- 67/68, Sector 6 **Noida 201031** Tel ... 8523370, Fax 8525098.

Anvi Electronic Systems, 10, Vaishali Industrial Estate-I Mahe... Dahisar (W) **Mumbai 400068** Tel 8933571, 8921674, Fax 8...

Apex Computers Pvt Ltd, 6/3 Kennedy II Street Mylapore ... **600002** Tel 4995667, Fax 4993202.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...Deodhar Centre, 424 Marol Maroshi Road Andheri (E) **Mumbai** ...Tel 838 1787/834 3642, Fax 838 8366.

...o Computers, 2nd Floor, Sagar Complex K G Road **Bangalore** ...e Tel 2269750, 2250348, Fax 2202771.

...Chakravarty, J-407, New Rajendra Nagar **New Delhi 110060** Tel ...15.

...ian Electric Ltd, Lakshmi Land, 2nd Floor 120, G N Chetty Road, ...ar **Madras 600017** Tel 8281884, 8240864, Fax 8240672.

...k Leyland Information Technology Ltd, No 17, South End Road, ...anagudi **Bangalore 560004** Tel 647539, 648513, Fax 647994.

...ciated Industries Corporation, W-59 MIDC, Shiroli **Kolhapur** ...22 Tel 468146, 22379, Fax 26067.

...Chitnis Computing, 15/5, 18th Cross Malleswaram West **Bangalore** ...55 Tel 3440397, Fax 3341137.

...mate Computer, Room No 47, 1st Floor, Amarwadi Back Bldg C ...Tank, Khattar Gally **Bombay 400004** Tel 3401374, 3824755, Fax ...5736.

...n Computers Pvt Ltd, No.658, 664, 2nd Floor, 100 Feet Road Dr ...tra Prasad Road **Coimbatore 641012** Tel 438843, Fax 822372.

...Computers, 4, Ladiwala House Old Prabhadevi Road **Mumbai** ...25 Tel 4362954, 4311397, Fax 4362957.

...Telecom Ltd, IT-Group 1/1 Palace Road **Bangalore 560001** Tel ...45, 2262013, Fax 2256387.

...e Software, 2/22, Laxmi Bhuvan NC Kelkar Road Dadar **Mumbai** ...23 Tel 4307154, Fax 4307154.

...ara Technologies, 5, Sarv Priya Vihar Market **New Delhi 110016** Tel ...39, Fax 6969977.

...Talkitec Pvt Ltd, 18, 1st Main Road (Behind Chennai Kaliappa ...) R. A. Puram **Madras 600028** Tel 452712, 452749, Fax 4918747.

...Engineering Software Services Pvt Ltd, 6, Hongkong Building ...Garware Factory), Sahar Road Andheri (East) **Bombay 400069** ...8506, Fax 8215879.

...man Data, A Div. of Bellman India (P) Ltd CFF-7, Jumbo House ...Phase III **New Delhi 110020** Tel 6838772, 6917392, Fax 6844426.

...ether Technologies Pvt Ltd, Shrama Safalya, Veer Savarkar ...Neupada **Thane 400602** Tel 5401975, Fax 5331262.

...kmark Microsystems Pvt Ltd, Ceebros Arcade, 2nd Floor Sardar ...Road Adyar **Madras 600020** Tel 413866, 4910054, Fax 4910123.

...formation Technologies, 50/10, Cunningham Road **Bangalore** ...Tel 2269881, 2281155, Fax 2261989.

...beals, 211, Hira Bhavan, 2nd Floor 12/14, Daryasthan Street, ...Bombay 400003** Tel 3433198,3450093, Fax 3410205.

...t Computers, 4/11, Jai Dev Park **New Delhi 110026** Tel 5421623.

...t Infoservices Pvt Ltd, J-136, Ansa Industrial Estate Saki Vihar ...Andheri (East) **Mumbai 400072** Tel 5786331, 5793790, Fax ...65.

...botech, P-703/A, Block-A Lake Town **Calcutta 700089** Tel ...53.

...y Data Systems, Nadavallil Building Chandanappally Post ...anthitta District **Kerala 689648** Tel 7371, Fax 3268.

...GR Plaza 714, Mount Road **Madras 600006** Tel 8550323, ...4, Fax 8550196.

...Chip Computers, 103, Malwa, Patanwala Ind. Estate Ghatkopar ...Mumbai 400086** Tel 5155812, 2651698, Fax 5155813.

...formation Technology Ltd, 205-206, Peacock Court Shahpurjat, ...eet **New Delhi 110049** Tel 6431636, Fax 6442361.

...ng Solutions, 1012, 26th Main Road 4th 'T' Block Jayanagar ...re 560041** Tel 6637930, 6650107, Fax 6631565.

...t Travel Corporation, 3, Ground Floor, Tulsaini Chambers Nariman Point **Mumbai 400042**, Fax 2870103.

Brainwave (India) Pvt Ltd, 112-A, Sanjay Bldg. No.5, Mittal Indl Estate Andheri Kurla Road, Marol Naka Andheri-East **Mumbai 400059** Tel 8322476,8300391, Fax 8381618.

Brainwave Computer Systems, Sujatha Centre 4 Seshadri Road **Madras 600018** Tel 4992515, Fax 4990558.

Building Network Automation, 146, Shantala Plaza 14th Cross, 8th Main Malleswaram **Bangalore 560003** Tel 3345451, 3341902, Fax 3314313.

Bull Power systems, 6-3-347/1/A Dwarkapuri Colony Punjagutta **Hyderabad 500482** Tel 224250, 318265, Fax 394074.

Byzan Systems Pvt Ltd, Gulmori Vadi, Agar Bazar Prabhadevi **Mumbai 400028** Tel 4302978, Fax 4309778.

C-DAC, 2/1, Ramanashree Plaza Brunton Road **Bangalore 560025** Tel 5584271, 5584982, Fax 5584893.

C-Fast Systems Pvt Ltd, LGF-9, Ganga Apartments 1/50, Lalita Park, Laxmi Nagar Main Vikas Marg **Delhi 110092** Tel 2224202, 2423446, Fax 2423446.

CADD Centre, 25, Dr Radhakrishnan Salai **Madras 600004** Tel 835469, 831742, Fax 8522405.

CADD Soft Technology, 95-A, Co-Operative Colony Saibaba Colony **Coimbatore 641036** Tel 447173.

CAG Station, W-90, Greater Kailash -I **New Delhi 110048** Tel 6410438, Fax 6218765.

CERC, Corporate and Economic Research Centre 201, Raheja Arcade, Koramangala Indl Layout **Bangalore 560034** Tel 5533667, 5534810, Fax 5535668.

CG-VAK Software & Exports Ltd, 224-C, 100 Feet Road Tatabad **Coimbatore 641012** Tel 431434, 434491, Fax 436921.

CIStems Software, A-68, Shanti Path Tilak Nagar **Jaipur 302004** Tel 621130, 622688, Fax 563767.

CSAT Systems Pvt Ltd, C-67-A, Kalkaji **New Delhi 110019** Tel 6425604.

Cadcon Inc, WZ-139-C, Varinder Nagar **New Delhi 110058** Tel 5505283, Fax 5524527.

Cadus International, No A-203, Blue Cross Chambers 11, Infantry Road, Cross **Bangalore 560001** Tel 5598502, 5598743, Fax 6634479.

Cap Computers And Peripherals, Harshad Exhibition Centre Anand Bhawan, Bajaj Road Vile Parle (W) **Mumbai 400056** Tel 6718605,6711755, Fax 6710980.

Carnatic Music, 339, First Mani Road Natesa Nagar **Madras 600092** Tel 4871513.

Centura Compaware, 118, Eden Crest, 7th Cross Vijinapura, Doorvani Nagar **Bangalore 560016** Tel 8510696, Fax 8511656.

Century Systems, 27/1, 2nd Main Road Seshadripuram **Bangalore 560020** Tel 364523.

Cerebra Integrated Technologies Ltd, No.24, 12th Main, 1st Block Rajajinagar **Bangalore 560010** Tel 3323054, 3320990, Fax 3327313.

Charly Computers, A-8 Palak Complex Opposite Chandresh Bagh Premchand Nagar Road **Ahmedabad 380015** Tel 6576638, Fax 375516.

Chenab Information Technologies, J-1A, Ansa Industrial Estate Saki Vihar Road, Saki-Naka Andheri (E) **Mumbai 400072** Tel 5792623, 5784958, Fax 8363781.

Cigma Computers (India), 201-A, New York Plaza Opp.Judges Bangalows Bodekdeo road **Ahmedabad 380054** Tel 6621605, Fax 6618190.

Cirlacs Data Systems, 5, 3rd Floor, Padmanabhan Nagar Adyar **Madras 600020** Tel 4916575, 4916585.

Compaq Computer Asia, 6th Floor, Du-Parc Trinity 17, MG Road **Bangalore 560001** Tel 5696023, Fax 5596025.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Compex Systems, 65 Babu Genu Road Kalaba Devi Road 3rd Floor **Mumbai 400002** Tel 2051315, 2053895, Fax 2053895.

Compkeys Ltd, 1-10-45 & 46 Chikoti Gardens Begumpet **Hyderabad 500016** Tel 811736, 849309, Fax 811736.

Comps Computer, 8th Floor,Galav Chambers Sayaji Gunj **Baroda 390005** Tel 333841, 329374.

Comptek Computer Systems, 1-2-365/36/4, 1st Floor Gaganmahal **Hyderabad 500029** Tel 637092, 638934, Fax 630501.

Comptek International, 1st Floor, Subodh Granthmala Building Pustak Path **Ranchi 834001** Tel 200819, 202858, Fax 200819.

Compuage Electronics Pvt Ltd, 3, Dhuru Building 329, Vithalbhai Patel Road **Mumbai 400004** Tel 3873436, 3851573, Fax 3877836.

Compucover East Pvt Ltd, D-15, Ranjit Nagar Commercial Complex **New Delhi 110008** Tel 5704371, 5704471, Fax 5703371.

Compute, 11, Dattani Chambers SV Road, Malad (W) Opp Shanti Nath Shopping Cent **Mumbai 400064** Tel 8892829.

Computek India, 29, KH Road, Nanjappa Mansion **Bangalore 560027** Tel 2237949, 2222873, Fax 2279252.

Computer Center, 40-E, Nimtolla Ghat Street **Calcutta 700006** Tel 5554429, 5337740, Fax 5554429.

Computer Factory (I) Ltd, 705, Mount Road Continental Plaza **Madras** Tel 8524146.

Computer Lab, Link Road **Cuttack 753012** Tel 612893, Fax 611893.

Computer Masters, 39, Central Road Bhogal **New Delhi 110014** Tel 4641343.

Computer Services, Malayogam Building Opp Govt High School Kaloor **Cochin 682017** Tel 347364, Fax 348003.

Computer Software Services, 56, A-Block Shopping Complex Naraina Vihar **New Delhi 110028** Tel 5797823, 5799448.

Computer Vision Laboratories, 2nd Floor, 4 Motilal Nehru Nagar Begumpet Main Road **Hyderabad 500016** Tel 848089, 849881, Fax 849686.

Computer Ware, C-1/B, Green Park Extn **New Delhi 110016** Tel 6863278, 6852294, Fax 6852295.

Context Concepts, 18, Neel Kiran, Gupta Niwas Compound VP Road, Mulund (West) **Mumbai 400080** Tel 5611478.

Continental Power Systems, No 7/22, 3rd Cross Hennur Main Road, Lingarajapuram Saint Thomas Town Post **Bangalore 560084** Tel 5465898.

Coral Soff'wares Pvt Ltd, A-307, Deluxe Centre 157-C Lenin Sarani **Calcutta 700013** Tel 275091, 273298, Fax 273298.

Coromandel Software Ltd, N-505, 5th Floor, North Block Rear Wing, Manipal Centre 47, Dickenson Road **Bangalore 560042** Tel 5586415,5585463, Fax 5585463.

Corporate and Economic Research Centre, 201, Raheja Arcade, Koramangala Industrial Layout **Bangalore 560034** Tel 5533667, 5534810, Fax 5535668.

Cranes Software International, No 5, Airport Road Domlur Layout (Service Road) **Bangalore 560071** Tel 5549338, Fax 2214606.

Creative Computer Services, 95, 3rd Main Road Sanjeevninagar Mudalapalya **Bangalore 560072** Tel 3353317.

Creative Micro Systems, 431, 8th Cross, 4th Main 2nd Block, RT Nagar **Bangalore 560032** Tel 3334140, Fax 3339798.

Crescent Computers Pvt Ltd, B-82, Okhla Industrial Area Phase I **New Delhi 110020** Tel 6810371, 6815837, Fax 4627941.

Crescent Software Solutions, 902, Bhikaji Cama Bhavan Bhikaji Cama Place **New Delhi 110066** Tel 6182009, 6183629, Fax 6183629.

Crystal Computers, 94/96, Bora Bazaar St 1st Floor Fort **Mumbai 400001** Tel 2659410, 2659783.

CyberMed Solutions, BG-1, Builder's Apartments **Bangalore 560017** Tel 5273856.

Cybersoft, 29-C, Mahim Halder Street **Calcutta 700026** Tel

Cygnus Microsystems Pvt Ltd, 1-10-115, Ashok Nagar **500020** Tel 635709, 638236, Fax 7614239.

DART, 1, Crown Court, 5th Floor 34, Cathedral Road **Madras** Tel 82799087, 8279130, Fax 8267512.

DC Ellcot Software, Padmini Complex 37, 1st Main Road Nagar, Adyar **Madras 600020** Tel 4915833, 4914523, Fax

Data Devices, 48, Krishna Vihar Colony Panampilly Nagar **682036** Tel 314994.

Data Soft, H-29, Tulsi Marg Bani Park **Jaipur 302016** Tel 335904.

Data System Services Pvt Ltd, Nalin Chambers, 173, Dhole **Pune 411001** Tel 622501, 620821, Fax 524576.

Databank Systems, 3A, Anand Apartments JP Avenue, Krishnan Road **Madras 600004** Tel 4349638, Fax 4821897.

Datacons, 4C, Chitrapur Bhavan 8th Main, 15th Cross **Bangalore 560055** Tel 3344251, 3348964, Fax 3348964.

Dataflex Systems, Vinayak Apartments Off Gokhale Road **Mumbai 400028** Tel 4220495, Fax 4221168.

Datalinker, 201-A, Anjali, French Bridge **Mumbai400007** Tel 3872224, Fax 3634090.

Datamarg Systems Pvt Ltd, 10, New More Building, Santacruz (West) **Mumbai 400054** Tel 6493673, 6481619,

Datapro Infoworld Ltd, 113/1, Koregaon Park **Pune** 638975,630326, Fax 634813.

Datasoft Application Software India Ltd, Casa Mariana Marg Borivili (W) **Mumbai 400103** Tel 8935647, 8943450,

Datatrac Computer Systems, 9, Vasant Vihar DC Road **146001** Tel 21900, 22340, Fax 21900.

Datex Electronics, 1512A Wazir Nagar Defence Colony **110024** Tel 4621931, 4602457, Fax 4624068.

Debug Computers Pvt Ltd, 1/A, Kanta Apartments Ghatkopar (East) **Mumbai 400075** Tel 5122892, 5129426,

Decision Plus Systems Inc, Shop 4, Ekta Towers Vasna Vasna **Ahmedabad 380007** Tel 6612293, 6612317.

Decision Software India, 26, Victoria Road **Bangalore** 560665, 579087, Fax 2266744.

Deep Computers, 44, Bunglow Area Opp Partap Bhawan **Ahmedabad 382340** Tel 2814326, 2819237.

Delta Computers Pvt Ltd, 39/5655A, 2nd Floor Ravipuram Erankulam **Cochin 682015** Tel 369608, 354935,

Delta Software Systems, 16, 16th Cross West Park Road **Bangalore 560055** Tel 3348677, Fax 5530713.

Desk Computer Systems, C1/9A, Prerana, Ugantak Panwel **New Mumbai 410206** Tel 7455159, Fax 7455159.

Dharma Computers, 94, 4th B Cross 5th Block Koramangla, Layout **Bangalore 560095** Tel 5533622, 5534601, Fax

Dhruba Software, 168/2 South Sinthee Road **Calcutta** 5570477.

Digita Systems & Software, A-5, Valmiki Near Bombay Pharmacy Santacruz (E), Kalina **Mumbai 400098** Tel 6118879, Fax 6131808.

Digital Electronics Ltd, 74/2, 'C', Cross Road, Marol, (East) **Mumbai 400093** Tel 8360225, 8340901, Fax

Digital Equipment India Ltd, Digital Park, 92 Industrial Yeshwantpur **Bangalore 560022** Tel 3374785, Fax

Digital World India Ltd, 97, Marol Co-op. Ind. Estate

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Andheri East **Mumbai 400059** Tel 8381922, 8385686, 1074.

Computer Lines, No 28, 17th Cross, 13th A Main Malleswaram **angalore 560055** Tel 3341669, 3341847, Fax 3341669.

Enterprises, A-3, Kisan Kunj Shahaji Raje Road Vile Parle (E) **bai 400057** Tel 8326780, 8376771, Fax 8376771.

ent Information Technologies Pvt Ltd, Unit 1, Okhla Industrial Phase IV **New Delhi 110020** Tel 6837574, 6913946, Fax 507.

Computers, WZ-59A, Janak Park Hari Nagar **New Delhi 110064** 5150, 5138876.

back Information Systems Pvt Ltd, Duckback House, 4th Floor 41, speare Sarani **Calcutta 700017** Tel 2402726, 2471601, Fax 152.

Corporation, N-11, GK Trade Centre Greater Kailash Part-I **New** 110048 Tel 6469983, 6412345, Fax 6477983.

Computers, 342, Arcot Road, 1st Floor Kodambakkam **Madras** Tel 4833370.

S, 25, 2nd Floor Fourth Trust Cross Street Mandavelipakkam s 600028 Tel 4937395, Fax 4939469.

Engineering Mechanics Research, 907, Barton Centre 84, MS Bangalore **560001** Tel 5586576, 5594770, Fax 5587634.

Software Systems, 4, Motilal Nehru Nagar Begumpet Road bad 500016 Tel 8449125, 846501, Fax 816960.

2C Park Plaza 71, Park Street **Calcutta 700016** Tel 298436, 5, Fax 2491563.

tem & Software Services, A-134, JDA Colony Malviya Nagar 302017 Tel 521200, Fax 526390.

Tech, G-124/1, Ground Floor, First Main Road Anna Nagar East s 600102 Tel 617167, Fax 610312.

rocom Software, 152, 2nd Floor, New Cloth Market **Ahmedabad** 2 Tel 369014, 7866827.

quire Software, 2, 4th Street Padmanabha Nagar Adyar **Madras** 0 Tel 4916744, Fax 4993162.

co Teknologies India Ltd, 6, Raghava Hsg. Society-II Transport Gunrock **Secunderabad 500009** Tel 846844, 810173, Fax 44 812334.

neering Mechanics Research India, 907, Barton Centre, 84, MG Bangalore **560001** Tel 5586576, 5594770, Fax 5586576.

Power Conversion, 14, Neelkanth Shopping Arcade Ground RC Marg Chembur **Mumbai 400071** Tel 5572259, 5577753, Fax 72.

Computer Consultancy, K-9, Bharat Nagar Rohtak Road **Bhiwani** 1 Tel 45542.

Corporation, Jalam Singh Bldg., 4th Floor Chunam Lane, ton Road **Mumbai** Tel 3857444, 3872480, Fax 3870981.

Software Solutions, 24/2, 1st Floor, JC Road **Bangalore 560027** 2296, Fax 2226469.

Softwares, Chatterjee International Centre 33A, J L Nehru 12th Floor (Room No 13) **Calcutta 700071** Tel 296728, 296729, 0128.

Systems, No 38, 7th Cross Malleswaram **Bangalore 560003** 7468, Fax 3311109.

Infosys, #3-6-726, Romana Plaza Street No 11 Himayatnagar bad 500029 Tel 630113, 630576, Fax 633714.

India System Services, 14, 8th Main Malleswaram **Bangalore** Tel 3312109, 3347049, Fax 3346185.

Computer Services, 104, Copper Arch Infantry Road **Bangalore** Tel 5592830.

Fifth Generation Software, 5, Ashoka Park (Main) Rohtak Road **Delhi 110035** Tel 6452200, 6229805, Fax 5458018.

Foresight Power Systems Ltd, 63/1, Railway Parallel Road KP West **Bangalore 560020** Tel 3367679, 3369787, Fax 3345791.

Fourth Dimension Technologies Pvt Ltd, 5 Srirangam Avenue 53 Pantheon Road, Egmore **Madras 600008** Tel 8553156, 8557191, Fax 8553221.

Frontier Information Technologies Ltd, 502, Software Technology Park HUDA, Maitrivanam SR Nagar **Hyderabad 500038** Tel 290824, Fax 290824, 831344.

Frontline Systems, 21, Chaturbai Bhuvan Mathuradas Road Kandivali (W) **Mumbai 400067** Tel 8012639, 3051689.

Futech Computers, AF/4 New Empire Industrial Estate Kondivita Road, JB Nagar Andheri (E) **Mumbai 400059** Tel 8214060, 8217936, Fax 4440072.

Futura Electronic Consultants, No 281, Kilpauk Garden Road Kilpauk **Madras 600010** Tel 612326, Fax 6413879.

Future Computers, 56, Chanoralok Complex 111, SD Road **Secunderabad 500003** Tel 841585.

Gebbs India Ltd, Gebbs House, 13th Street, Central Road Midc, Andheri East **Mumbai 400093** Tel 8362133, 8386303, Fax 8350209.

General Instruments, No 24/1 , Ist Floor Sree Venkateswara Building Race Course Road, Madhavanagar **Bangalore 560001** Tel 2267846, Fax 2232738.

Gentech Business Machines Ltd, Club House, Subhash Society Navrangpura **Ahmedabad 380009** Tel 461236, 461158, Fax 6563602.

Godrej & Boyce Mfg Co Ltd, O. A. Division (Plant-24) Pirojshanagar, Vikhroli **Mumbai 400079** Tel 5171166, 5171177, Fax 5172240.

Godrej Trading & Services, Sher Shah Suri Marg Mathura Road Okhla **New Delhi 110065** Tel 6830690, 6845002, Fax 6841482.

Gold Strokes Computers Pvt Ltd, 25/3, Serpentine Road Kumara Park West **Bangalore 560020** Tel 3367166, 3367620, Fax 3314549.

Gowtham Computer Consultancies, 95-A, Race Course, "Vyshnan" **Coimbatore 641018** Tel 217361, 215323.

Graham Information Systems Pvt Ltd, 416, Shanti Sadan, Bhaudaji Road Opp Municipal Office, Matunga **Mumbai 400019** Tel 4013535, 4021024, Fax 4025230.

Great Eastern Impex, Pragati Tower, 10th Floor 26, Rajendra Place **New Delhi 110008** Tel 5711751, 5737287, Fax 5754185.

Greysoft Computers, 21, Ranjit Road **Madras 600085** Tel 413155.

Gujarat Communications & Electronics Ltd, GIDC Industrial Estate, Makarpura **Vadodara 390010** Tel 442167, 443121, Fax 443417,443279.

Gujarat Hi-Rel, Shanti Chambers, Opp. Dinesh Hall Incometax **Ahmedabad 380008** Tel 409666, 409309, Fax 6427622.

Gurjar Computing, 12/2, 1st Main Road Jayamahal Extension **Bangalore 560046** Tel 3338335, Fax 3330837.

Gyan Deep, 4, 5th Street Nandanam Extension **Madras 600035** Tel 4340186, Fax 4340186.

HCL Peripherals Ltd, 158, Arcot Road, Vadapalani **Madras 600026** Tel 420156,427088, Fax 4834563.

HOPE, B-1, Geetanjali Enclave **New Delhi** Tel 6851979,6859152, Fax 6866494.

HPH Systems, 82, Misquitta Street Vile Parle (East) **Mumbai 400057** Tel 6115767.

HS Technologies, B-308, Virwani Industrial Estate, WE Highway Goregaon(E) **Mumbai 400063** Tel 8749079, 8744296, Fax 8723982.

Hanuman Prasad Biharilal, 1st Floor Sutapatty **Muzaffarpur 842001** Tel 245441, 246684, Fax 244514.

CC-0. Mumukshu Bhawan Varanasi Collection. Digitized by eGangotri

Digitized by Arya Samaj Foundation Chennai and eGangotri

Headline Computers, Chawal Mandi Moti Bazar **Amritsar 143006** Tel 544525, Fax 553721.

Hewlett-Packard, Paharpur Busines Center 21, Nehru Place **New Delhi 110019** Tel 6472311, 6472328, Fax 6461117.

Hexaware Infosystems Ltd, Unit No 159, SDF V, Seepz Andheri (East) **Mumbai 400096** Tel 8371649, Fax 8351424.

Hi-Rel Powernetics, Shanti Chambers, Navrangpura **Ahmedabad 380009** Tel 409309, 409666.

Hi-Tech Info Systems, Manvsmruti, Bhagwat Wadi (East) Ramdas Peth **Akola 444001** Tel 435261.

Hinditron Informatics Ltd, 17-B Mahal Estate, 1st Floor Mahakali Caves Road Andheri (E) **Mumbai 400093** Tel 8349123, 8370088, Fax 8370087.

Hiranandani Developers Pvt Ltd, 17/A Saraswati Road Santacruz (W) **Mumbai 400054** Tel 6496666, 6483648, Fax 6494344.

Hitarth Consulants, 35, Tulsi Vihar, Society, NR Khanpur Postoffice Khapur **Ahmedabad 380001** Tel 5504347, 440930, Fax 6423358.

ICIT Thems TSC, 1st Floor, Capitanio Vocational Training Institute P Balu Road, Opp Tata Press **Mumbai 400025** Tel 4228972, 4378300, Fax 4373797.

ICM Computers, CeeBros Arcade I Floor, III Cross Street 1 Kasturibai Nagar **Madras 600020** Tel 4919851, 417872.

IICP, 202, Ruhi Apartment, Near Chandranagar Bus Stop Narayan Nagar Road Paldi **Ahmedabad 380007** Tel 6635027, 6636407, Fax 6635751.

ION Software Solutions Pvt Ltd, SQ-129, S.F.S., Hauz Khas **New Delhi 110016** Tel 6966416, Fax 6966416.

IT Secure, 52, Regency Chambers Near Nandi Theatre, Bandra (West) **Mumbai 400050** Tel 6431233, 6454782, Fax 6422182.

Imaginations, 11/12, Vasant, NS Phadke Road Kol-Dongri Andheri (E) **Mumbai 400069** Tel 8365798, 8365799, Fax 8347079.

Impetus Computing Systems, 136, Jaora Compound **Indore 452001** Tel 475485, 475484, Fax 462629.

Indiana Software Labs, E-211, SFS Flats Sarita Vihar **New Delhi 110044** Tel 6942865, 6942043, Fax 6946620.

Indosoft Services, 273, GIDC Makarpura **Baroda 390010** Tel 442375.

Indostat Services, 18, Rohini Apartments 7-1-32/A Ameerpet **Hyderabad 500016** Tel 294052.

Industrial Adapters, 149, Guru Gobind Singh Industrial Estate Western Express Highway Goregaon (E) **Mumbai 400063** Tel 8732788, Fax 6268105.

Infonet, 4 A, Poes Road, 1st Street Off Eldams Road Teynampet **Madras 600018** Tel 4340588, 4340175, Fax 8250432.

Informatics (India) Pvt Ltd, PB No 360, 337, 'Karuna Complex', Sampige Road Maleswaram **Bangalore 560003** Tel 3367867, 3365940, Fax 3344598.

Infors Consultancy Services, T.C.24/274, Sasthamkovil Road Thycaud, Trivandrum **Kerala 695014** Tel 63759.

Infosys Technologies Ltd, Pavitra Complex, No.1, 2nd Cross, 27th Main BTM Layout, 1st Stage **Bangalore 560068** Tel 6681755, 6680182, Fax 6680181.

Infotech Enterprises Ltd, 42, Nagarjuna Hills Punjagutta **Hyderabad 500082** Tel 398190, 398193, Fax 293620.

Infotrend Services, 404/2, 7th Main, 9th Cross, Block-II Jayanagar **Bangalore 560011** Tel 6633393, 6654389.

Innovations Software & Exports, 2nd Floor, Rathna Building 58, Mount Road, Teynampet **Madras 600006** Tel 4249443, 4349924, Fax 4349505.

Innovex Systems, 35, Nandidurg Road Jayamahal Extension **Bangalore 560046** Tel 3336183, Fax 2200016.

Integrated Consultants, C-35, Malviya Nagar **Jaipur 302017** Tel Fax 520163.

Integrated Data Systems, Unit No 12, 3rd Floor 6-3-713, Topaz Hills Punjagutta **Hyderabad 500482** Tel 313318, 313310, Fax

Integrated Equipments, 1522, Ansal Tower 38, Nehru Place **110019** Tel 6462300, 6214702, Fax 6846815.

Interactive VITA Pvt Ltd, D-177, Lajpat Nagar-1, 2nd Floor **110024** Tel 6922174, Fax 4691564.

International Graphics Ltd, 213, Amrutha Estates Himayat **Hyderabad 500020** Tel 233052, 233055, Fax 241425.

Internet Systems, 328/12, HBR Complex 15th Cross Jayanagar Block **Bangalore 560011** Tel 6630775, 6639696, Fax 6633706.

Inventa Software, 2 Nandidurg Road Benson Town **Bangalore** Tel 3333427, 3335549, Fax 3336026.

Investwel Publishers, 528, Chandralok Complex 111, SD **Secunderabad 500003** Tel 819099, 816772, Fax 816772.

JJ Compusoft, 5 Mookambika Complex Basement 4 Lady D Road **Madras 600004** Tel 4990212, Fax 4991015.

JK Technosoft, 302, 3rd Floor, Brigade Tower 135, Brigade **Bangalore 560025** Tel 2270715, Fax 2217655.

Jaya Computers & Softwares, 20, Old Court House Street 2nd **Calcutta 700001** Tel 2430007, 2201509, Fax 2488451.

Jayanti Graphics Pvt Ltd, 35, Local Shopping Centre A Block Ring Road Narain Vihar**New Delhi 110028** Tel 5790147, 5793906.

Jaydee Electronics, Mody Estate LBS Marg Ghatkopar (W) **400086** Tel 5139217, 5121069, Fax 5115904.

Jenish Software Consultancy, 11/B, Bandhan Society, Cadila Ghodasar Mani Nagar **Ahmedabad 380050** Tel 5358978.

Jopasana Software Pvt Ltd, 8, Suvarna Apartments Lane 5, Deccan Colony Kothrud**Pune 411029** Tel 330522, 349297, Fax 330522.

KRS Electronics, 13, Dharmaraja Koil Street Alandur **Madras** Tel 2342884, Fax 2342884.

Kaizen Consultants Pvt Ltd, 4, Bhawani Industrial Estate **Mumbai 400076** Tel 5787717, 5792279, Fax 5792279.

Kale Consultants Pvt Ltd, Mohan Mills Compound, Road,Dhokali,Thane(w) **Thane 400607** Tel 5332456, 5420889.

Kanugovi Computer Centre, Karatagi Post Gangavati Taluk **583229** Tel 75468.

Keypro Plus, 52, Nemi Nagar Extension **Indore 452009** Tel

Khera Consultants, 73, Venkatesh Ramani Street Chintadaripet **600002** Tel 834757.

Kilburn Electronics, 302, Shri Ram Bhawan Commercial Ranjit Nagar **New Delhi 110008** Tel 5709581, 5707536.

Knowledge Ware India, 2, Khetani Industrial Estate 106 Bazar Sona Pur, Kurla (West) **Mumbai 400070** Tel 5141428.

Knoxware, 506, 1st floor, 9th Main, 3rd Cross, HAL 2nd Stage Nagar **Bangalore 560008** Tel 5288490, 2278752, Fax 5264492.

Kodak India Ltd, 6th Floor, 'B' Wing, Vinay Bhavya Complex CST Road, Kalina, Santacruz **Mumbai 400098** Tel 6176001, Fax 6176004.

Kohli Software, 907 Chiranjiv Tower 43 Nehru Place **New Delhi** Tel 6213810, 6222216, Fax 6217130.

Koral Projects Consultancy Pvt Ltd, 11, Kartik Chambers, Near Modern High School, Modern College Road 1170/5, **Pune 411005** Tel 325279, Fax 325279.

Kreators, Plot No 252, Sonapur Lane, Opp Britania Road **Mumbai 400010** Tel 3722101, Fax 3780497.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

ystems, 6/23, Ullengal Building NC Kelkar Road, Dadar 400028 Tel 4373139, 4374794, Fax 4374794.

Peripherals Pvt Ltd, A-23, Shri Ram Indl Estate 2/F, 13, G D kar Road Wadala **Mumbai 400031** Tel 4130442, 4130646, 02618.

k Software, 901, Galactica Lokhandwala Complex Andheri mbai 400053 Tel 6264816.

& Toubro Ltd, 8th Floor, Venkatramana Centre, 563 Anna ayamperMadras 600018 Tel 4343309, Fax 4342639.

nsultants, 'Narmada', Uditnagar **Rourkela 769012** Tel 890717,

mation India Pvt Ltd, 35-A, 7th Avenue Ashok Nagar **Madras** Tel 4822355, 4824908, Fax 4824908.

e Softwares, 14B, Camac Street **Calcutta 700017** Tel 2404336, Fax 2479220.

an Systems, 111/3, Marol Co-operative Industrial Estate Sir MV Saki Naka Andheri (E) **Mumbai 400059** Tel 8389582, 8327595, 28340.

nd Digital Systems, C-202/1, Mayapuri Industrial Area, Phase- 110064 Tel 5400406, Fax 5794617.

nt Computers, 901, Galactica Lokhandwala Complex Andheri bai 400053 Tel 6264816.

n Systems Ltd, 1, Mittal Chambers, Nariman Point **Mumbai** Tel 2882960, Fax 2873314.

Computers, 40, Malaviya Nagar "Hem-Lila" Gondal Road**Rajkot** Tel 88358, Fax 24044.

Datacom Ltd, 6-7, Manek Cama Building 82, Sir M. V. Road, (E) Mumbai 400093 Tel 8210403, 8220758, Fax 8380325.

Autotron Pvt Ltd, "Armaan", No 67/1B/25/16 Vidyanagar **Pune** Tel 667363, 667549, Fax 664171.

ware, 20/166, Unnat Nagar Part 2, MG Road, Goregaon (West) 400062 Tel 8751958.

a Computers Pvt Ltd, 532, Mount Road **Madras 600018** Tel 2 4349454, Fax 4349783.

India, 40, Langford Road **Bangalore 560025** Tel 2238699, Fax 2213984.

Electric Co, 2, Ramavaram Road **Madras 600089** Tel 2344711, Fax 2343651.

Enterprises, 48, Adarsh Nagar, Opp. Old Police Station Camp, R. C. Marg **Mumbai 400074** Tel 5566783, 5576652, 5827.

Soft Pvt Ltd, 406/408, Vaibhav Kunj, 1-2-605, Lower Tankbund ad 500080 Tel 610547, Fax 601704.

a Soft-Tech Ltd, 302, Samruddhi, Opp. Gujarat High Court Road **Ahmedabad- 380014** Tel 405064, 404233, Fax 405064.

Software Quest Pvt Ltd, 2nd Floor, Plot No.12, Laxminarayan ds Penderghast Road **Secunderabad 500003** Tel 848396, 360.

Power Equipment, 9/2, Xth Harrington Avenue Shenoy Nagar 600030 Tel 6427756, 6413858.

td, Plot No 76, Street No 14 MIDC Marol, Andheri (East) 400093 Tel 8325033, 8300033, Fax 8212242.

Thomas, 10, Chandrika 9th Road, Chembur **Mumbai 400071** 074.

rmation Systems, 4, Poes Road 1st Street Off Eldams Road Madras 600028 Tel 458091, Fax 458091.

ms, A-118, Lajpat Nagar-I **New Delhi 110024** Tel 6829478, 6001

Measurement Systems, B-15, First Floor Naraina Vihar **New Delhi 110028** Tel 5791395, Fax 5790736.

Mediatronix, PO Box 2261 Palarivattom **Cochin 682025** Tel 348473, 340473, Fax 331560.

Mediaware Infotech Pvt Ltd, 217/A-2, Shah & Nahar, Lower Parel **Mumbai 400013** Tel 4966810, 4966811, Fax 4934383.

Meeraa Systems, 36, Sankar Nagar Srirangam **Trichurapalli 620006** Tel 432320, Fax 28462.

Mehta CAD-CAM Systems, 304, Palak Complex Sattar Taluk Opp High Court**Ahmedabad 380014** Tel 409489, 6562988, Fax 6562988.

Menivan Furniture Pvt Ltd, Menezes House, Plot No.174 26th Road, T.P.S. III, Bandra **Mumbai 400050** Tel 6402238, Fax 6443425.

Merit Systems, 7, ITI Layout, Vidyapeetha Banashankari 3rd Stage **Bangalore 560085** Tel 6693091, Fax 6610662.

Micro Associates Consultancy (I) Pvt Ltd, G-1/13, Prem Jyot Complex Chembur-Mankhurd link road **Mumbai 400043** Tel 5553384, Fax 5562767.

Micro Vision, 38/336, GHB Khatodra Colony Gandhi Nagar **Surat 395002** Tel 629913, Fax 629913.

MicroLand, Microland House, 58, 80 Feet Road Koramangala, Block 7 **Bangalore 560095** Tel 5534340, Fax 5534992.

MicroWorld, Shop No 5 Shradhanand Ext Road, Opposite Tanwar Apartments Vile-Parle (E)**Mumbai 400057** Tel 6108415,6180841.

Microbrain Computer Consultancy, B-3, Shreeji Darshan Ground Floor, Carter Road No 2 Borivili (East) **Mumbai 400066** Tel 8622512,8635225.

Micrographics, E-5/30, Krishan Nagar **Delhi 110051** Tel 2249648, Fax 2231663.

Microhard Computers India, 347, Arcot Road, Kodambakkam Anna Aran bldg, Above Indian Bank **Madras 600024** Tel 4838216, 429585, Fax 4838216.

Microstuf Computers Ltd, 25, Durai Swamy Road T Nagar **Madras 600017** Tel 8282856,8259795, Fax 8056412.

Microsys, Chandraat, 99, Mayur Colony Kothrud **Pune 411029** Tel 364355, 344167, Fax 364355.

Microtek Power Controls, No 2, Ramakrishna Street T Nagar **Madras 600017** Tel 8284658.

Microware Computers, Mohan Complex 311, Mettur Road **Erode 638011** Tel 76731, 78420.

Microware System & Software Pvt Ltd, 7, C. town House, C-in-c Road **Madras 600005** Tel 8200465, 8268262.

Microworld Enterprises, 19, Aarti Arcade 86, Dr Radhakrishnan Road Mylapore**Madras 600004** Tel 8250987, 8264004.

Milestone Electronics Ltd, A/27 3rd Floor, Bhandeep Esate, Pannalal Compo LBS Marg Bhandup (W)**Mumbai 400078** Tel 5671725.

Minicomp Ltd, 23 A Shah Industrial Estate Jyoti Wire House, Azad Nagar Off Veera Desai Rd, Andheri **Mumbai 400053** Tel 6269498, 6269386, Fax 6292737.

Minmax Electronics, 87, 1-A Cross, 5th Main 2nd Stage, Domlur **Bangalore 560071** Tel 5263085, Fax 5282627.

Miracle Fx Multimedia Solutions, B/22, Nutan Nagar Turner Road Bandra West **Mumbai 400050** Tel 6411711, Fax 6454002.

Modi Xerox Ltd, 809, Hemkunt Tower, 98 Nehru Place, **New Delhi 110019** Tel 6434544, Fax 6225832.

Modular Systems, No 26, Electronic Estate Satara Road **Pune 411009** Tel 437994, 425896, Fax 452323.

Moon Computers Mfg Industry, Cama Building Ground Floor 24/26, Dalal Street **Mumbai 400023** Tel 2653390, Fax 2651369.

Mostek Electronics, 11D, Soundararajan Street T Nagar **Madras 600017** Tel 4345952, Fax 4345952.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

BUY * SELL * LEASE * HIRE

MICROMART

CLASSIFIED

HIRE COMPUTERS

286, 386, 486, PENTIUM
MONITORS: MONO/VGA/COL
PRINTERS: DMP/INKJET/LASER
FAX MODEM, LAN INSTALLATION

PROMPT SERVICES
MODERATE RATES

Alpha

COMPUTER CORPORATION
GI-6, G. T. Karnal Road.,
Ind'l Area, Azadpur, Delhi-33.

Ph: 7435566, 7422123

ASTROLOGY SOFTWARE
SIX LANGUAGES

SHODASH VARGA, VARSHPHAL ASHTAK VARGA, SHADBAL VIMSOPAK BAL, MAITRI TABLE SUDARSHAN CHAKRA DASA-YOGINI, KALCHAKRA, ASTOTRI, VIMSOTRI, STONES INTER-PRETATIONS, SADESATI,

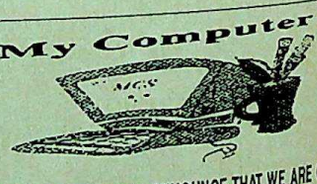
PRINT ON 24PIN, 9PIN, LASER, INKTET

TRIPLE-S CONSULTANTS
G-9, ALLIED HOUSE, INDERLOK,
OLD ROHTAK RD. DELHI-35.
PH:5111846, 5417429
FAX:7234102

★ ATI MACH - 64 PCI VG with 64 BIT GRAPHI ENGINE ACCELERATOR
★ MPEG WIN 95/NT DRIVER
★ 2MB Rs.10,500/- 4MB Rs.19,000/-
★ HDD FOR NOTEBOOK
★ MOBILE HDD (P. PORT) (270 MB TO 1 GB)
★ PCI ADAPTEC - Rs. 2940/-
★ PCI SCSI - Caching
★ COMPAQ NOTEBOOK
★ 2 GB SCSI HDD Rs. 25,000/-
★ Also other peripherals at lowest prices

"COSMOS"
TEL: (022) 822 2771/8213597/8213598 / 262 3833 FAX: (022) 821 7890

My Computer Solutions



WE ARE PROUD TO ANNOUNCE THAT WE ARE ONE & ONLY ONE OF IT'S KIND

In Trans-Yamuna who provide a complete solutions to all your computer problems. As you deserve "The Best" so we provide "The Best".

Visit us & we would change the way you look at computers. Discover Pinnacles in computers.

Our main features:-

- Computer Education H/W, S/W.
- Computer Upgradation, Networking, Maintenance contract.
- Computer Multimedia, Animation.

My Computer Solutions 41, Arjun Nagar, Main Swarn Cinema Road, Delhi-110 051
khurana.moscow@axcess.net.in Ph.: 246-4243

LATEST CDs & SOFTWARE

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Ltd, 108, Gavipuram Guttahalli, Off Bull Temple Road
re 560019 Tel 6612973, 6612974, Fax 6612977.

Varma & Srivats, Devi Ahilya University Takshashila Campus, a Road **Indore 452001** Tel 401352, Fax 401352.

Software (India) Pvt Ltd, 3-6-98, Main Road, West Marredpally derabad 500026 Tel 7806147, 7808024, Fax 812334, 819747.

dia MultiMedia, PB 8062 Sadashivnagar **Bangalore 560080** Tel 4, 3344039, Fax 3344115.

each Software Systems India, 1 HAL, 2nd Stage 17 Main, 100 Ft Indiranagar**Bangalore 560038** Tel 5260083, 5273258, Fax 258.

Computer Consultants, 15, Raypreda, 3rd Floor Maharani Caves Andheri East **Mumbai 400093** Tel 8325214, 8323528, Fax 335.

Systems & Software, 105, 1st Floor, Om chambers 123, August Marg, Kemps Corner **Mumbai 400036** Tel 3680512, 3680517, 680513.

esigns & Services, No 10, 1st Main Road Mico Arakere Layout ghatta Road**Bangalore 560076** Tel 6642873, Fax 6642873.

soft Systems, 307, Brigade Gardens Church Street **Bangalore** Tel 5587365, 5091087, Fax 5594324.

ial Chemical Laboratory, Room No 288 **Pune 411008** Tel 331453, Fax 330233, 335153.

ng Software, RB-7, Inderpuri **New Delhi 110012** Tel 5789914, Fax 97.

Computer Services, 3/33/P, Nandanvan Society Above Hong Bank Vile Parle (W) **Mumbai 400056** Tel 6710260, 6712439.

s Computers Pvt Ltd, Archana Centre, 29, Mount Road **Madras** Tel 2352568,2351051, Fax 2352569.

River, 21, Raj Niwas Marg Civil Lines **Delhi 110054** Tel 2915995, 27.

Institute of Computer Expertise, 96, St Mary's Tope **Tiruchirapalli** Tel 702192.

Comm Systems, 969, Road No 56 Jubilee Hills Colony **Hyderabad** Tel 247459, Fax 244239.

soft Systems, J-136, Ansa Industrial Estate Saki Vihar Road (E) **Mumbai 400072** Tel 5786331, 5793790, Fax 8375436.

Informatics, S-24, Okhla Industrial Area Phase II **New Delhi** Tel 6914406, 6919775, Fax 6840476.

Software Offshore Pvt Ltd, 8, Daulat Sagar, Nehru Road z (E) **Mumbai 400055** Tel 6130205, 6118794, Fax 6115237.

Data Systems, No 1, Narayana Reddy Building Beml Road, Hall **Bangalore 560075** Tel 5280292, Fax 5280292.

Power Systems, 63 Dr Radha Krishnan Salai Mylapore **Madras** Tel 4990300, 4993266, Fax 4995179.

Computers Ltd, 71, Nungambakkam Hingh Road **Madras 600034** 034, Fax 8282830.

Oriented Interactive Software, 40, 1st Floor, 100 Feet Road 4th Koramangala **Bangalore 560034** Tel 5538082, Fax 5538293.

and Software Technology, No.48, 2nd Cross, Syndicate Bank Arekere, Bannerghata Road **Bangalore 560076** Tel 6640997, 6233.

puter Center, Manusmruti, Bhagwat Wadi Ramdaspeth **Akola** Tel 433711.

Systems, Suite 5, Bhoopali 98-2, Erandawane **Pune 411004** 7, Fax 374259.

Novell Software, Marwah Bhavan Saki Vihar Road, Saki-Naka (E) **Mumbai 400072** Tel 8351995, 8360715, Fax 8214203.

Optimal Computer Consultants Pvt Ltd, 1, Suman Apartments, Yari Road Versova, Andheri (W) **Mumbai 400061** Tel 6264765, Fax 6323618.

Orbit Computer Services, 39/4, Sarojini Street T Nagar **Madras 600017** Tel 4348088, Fax 4341870.

PC India, Business Centre, 1st Floor 3, Montieth Road, Egmore **Madras 600008** Tel 8554364, 8557985.

PCS Industries Ltd, Plot No 4, PCS House Saki Vihar Road, Andheri East **Mumbai 400072** Tel 5780177,5771293, Fax 5780193.

PN Exports, 10, Harish Kunj 46, Tagore Road Santacruz (W) **Mumbai 400054** Tel 6182211, Fax 3411046.

PSY-COM Services, B-4, 80/2 Safdarjung Enclave **New Delhi 110029** Tel 606433.

Pace Computers, 8, Lokhandwala Society Naranpura Char Rasta Behind UCO Bank **Ahmedabad 380013** Tel 7452262,7489067, Fax 7489067.

Pacific Micro Systems, 3/16-A, West Marredpally **Secunderabad 500026** Tel 7806099, 800470, Fax 7806099.

Parekh Micro Electronics (India) Ltd, 16/B, Samhita Industrial Estate Off. Andheri Kurla Road Safed Pool **Mumbai 400072** Tel 5164798, 5168725, Fax 5152219.

Parth Computer, 5-4, OMIC Complex Pirchhalla Road **Bhavnagar 364001**.

Peacock Software, Sahyadri, 40/6807-C, 2nd Floor, MG Road **Cochin 682035** Tel 364505, 364505, Fax 381992.

Pentafour Software Exports, 1, 1st Main Road United India Colony Kodambakkam **Madras 600024** Tel 4836337, 4836934, Fax 4830797.

Picadilly Computers (India) Pvt Ltd, 4/18, 'Durga' Sahakar Vasahat Erandwane Karve Road **Pune 411004** Tel 349234, 453073, Fax 349234.

Pioneer Micro System, 8, Purushottam Building 1120, Model Colony Shivaji Nagar **Pune 411016** Tel 356501, 356502, Fax 623636.

Pioneer Network Solutions Pvt Ltd, c/214, Lancelot, S. V. Road Borivli (West) **Mumbai 400092** Tel 8054906, 8063815, Fax 8020121.

Plans Proposals & projects, 16, Periyar Street, Gandhi Nagar Salipramam **Madras 600093** Tel 4831145, Fax 4821145.

Power Electronics, 759/107/3 Deccan Gymkhana **Pune 411004** Tel 377470, Fax 331542.

Pragati Software Pvt Ltd, 312, Lok Centre, Marol Maroshi Road Marol **Mumbai 400059** Tel 8371583, 8391349.

Premier Computers and Consultancy Services, 2-J-8, Jawahar Nagar **Jaipur 302004** Tel 604202, Fax 604202.

Prime Source Technologies, 13 Singaram Street, T Nagar **Madras 600017** Tel 8282239, Fax 8251247.

Prism Consultancy Pvt Ltd, 1, Swathi Ram's Tower 2A, Durgabai Deshmukh Road RA Puram **Madras 600028** Tel 4938724.

Prit Computers, 9th Floor, L Block, Saraswati Apartment Opp Old Civil Court Nanpura **Surat 395001** Tel 473894, 425256, Fax 473894.

Priya International Ltd, Podar Chambers, 4th Floor, PB No 10109 109, SA Brelvi Road, Fort **Mumbai 400001** Tel 2663611, 2663676, Fax 2664154.

Proactive Information Systems, M-6, Rajouri Garden **New Delhi 110027** Tel 5439238, Fax 5434050.

Processware Systems Pvt Ltd, 33, PT Street, Basavanagudi **Bangalore 560004** Tel 622188, 6614163, Fax 6600440.

Productive Solutions, No.3, 8th Street Manganallur **Madras 600061** Tel 2330530.

Proficient Computer Services, 4, Ground Floor, Harekrishna Tower Shantinagar, Vadaj **Ahmedabad 380013** Tel 7416631.

Programware Computer Company, P-57, Block D Bangur Avenue **Calcutta 700055** Tel 5517252.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

 Digitized by Arya Samaj Foundation Chennai and eGangotri

Pushkar Appliances Pvt Ltd, 3-6-477/2, 3 & 4, 2nd Foor Himayat Nagar **Hyderabad 500029** Tel 636603, 636087, Fax 632643.

Pushpam Computers & Softwares, 63511-B, Gajara Cooperative Housing Society Bibwewadi Near Canara Bank **Pune 411037** Tel 415162, 411279, Fax 416455.

Pyramid Business Systems, 2-4, Crescent House 27, Colaba Causeway **Mumbai 400039** Tel 2824928, 2841799, Fax 2831837.

QED Software Systems, Khaleeli Centre, 2nd Floor 149, Montieth Road **Madras 600008** Tel 8556434, 8556435, Fax 8556433.

Qualitronics, No 3, Jawaharlal Nehru Road Ambal Nagar, Ekkaduthangal Post Box No 850 **Madras 600097** Tel 2349948, 2340118, Fax 2340118.

Quantum Link Communications, B/23, Tardeo AC Market Tradeo **Mumbai400034** Tel 4970681, 4970682, Fax 4931584.

Quantum Power Systems, No 56, Main Channel Road, 1st Floor, Ulssor, **Bangalore 560008** Tel 5540666, Fax 5540666.

Quark Technology Pvt Ltd, 3, Gaurav Niketan, Holy Cross Road I. C. Colony, Borivali (W) **Mumbai 400103** Tel 8922242, Fax 8911139.

Quill Publishers, 2/1, Connaught Road **Bangalore 560052** Tel 5599003, Fax 5599187.

RDK Compu Data Techniks, 127/2/C, Swastik Society PO Box 4113, B/H Punjab National Bank Navrangpura **Ahmedabad 380009** Tel 460117, 409059, Fax 6751133.

RND Marketmen, 9, 2nd Cross Street Raja Annamalaipuram **Madras 600028** Tel 457010.

Radiant Industrial & Commercial Co, A-32, Ansa Indl Estate, Saki Vihar road, Saki Naka **Mumbai 400072** Tel 5783551, Fax 5774230.

Radix Softwares Pvt Ltd, M-4, Aashirwad Building D-1, Green Park **New Delhi** Tel 6868071, 663274, Fax 6852299.

Rahul Commerce Pvt Ltd, 5/1, Anil Moitra Road, (Formerly Swinhoe Street) Opp. Marriage Registration Office Ballygunge **Calcutta 700019** Tel 4408926, 4408927, Fax 4408935.

Ram Mohan, C-2/3, Char Imli **Bhopal 462016** Tel 550482, Fax 574951.

Rameswar Automation, No 8, Jayammal Street Teyanampet **Madras 600008** Tel 451383, Fax 4942249.

Ranka Data Products, 11-A, Ramkrishna Building, 1st Floor Chunam Lane, Lamington Road **Mumbai 400007** Tel 3873168, 3876486, Fax 3866308.

Ratandeep Surgical Hospital, Maninagar Char Rasta **Ahmedabad 380008** Tel 364119, 364441, Fax 5352216.

Ravichandra Systems & Computer Services Ltd, 1029, Avanashi Road, LIC Bldg **Coimbatore 641018** Tel 214844, 21196, Fax 214844.

Raychan Sysmatics, 34/A, 2nd Floor, 8th Cross Wilson Garden **Bangalore 560027** Tel 2237077, 2275278, Fax 2220891.

Redington (India) Pvt Ltd, SPL, 'Guindy House' 95, Mount Road, Guindy **Madras 600032** Tel 2353313, 2353317, Fax 2352970.

Ripple Software Group, No 168, 1st Floor, 18th 'B' Main 6th Block, Koramangala Layout **Bangalore 560095** Tel 5531453.

Rising Edge Systems, 902, 4th Main Vijayanagar **Bangalore 560040** Tel 3302449,3301128, Fax 3303271.

Robocom Business Systems Pvt Ltd, 1/B, Bilquis Apartments Next to Saibaba, Mahakali Road Andheri (E)**Mumbai 400093** Tel 8348755, 8351304, Fax 8351304.

Rook Technologies Pvt Ltd, 514, Chenoy Centre, 116, Parklane **Secunderabad 500003** Tel 91+40-819773.

Roop Electronics & Allied Industries, 12, Pawala Street Rajaram Mohanray Road **Mumbai 400004** Tel 3862665, 3864166, Fax 3856772.

Root Computers, 16, Venkatachalapathy Street Shenoy Nagar **Madras 600030** Tel 6414966, Fax 6213371.

SB Management Consultants, 414/416, Maulana Azad Road 2nd **Mumbai 400004** Tel 3860534, Fax 3863849.

SEC Machines Pvt Ltd, 16, Kakad Industrial Estate Lady Cross Road No 3 Mahim **Mumbai 400016** Tel 4376758, Fax

SPA Computers Ltd, 2010, 100 Feet Road HAL II Stage **560008** Tel 5265348, 5267981, Fax 5260818.

SS Compwares Pvt Ltd, Dugar House, 19 Edward Road Comer **Bangalore** Tel 2264884, 2205279, Fax 2255127.

Saba, 101/A, 5th Main 3rd Cross, Mathikere **Bangalore** 3311609.

Sacred Step Data Network & Infotech Ltd, 9, Shirmahal Dadra Road **Baroda 390015** Tel 330340, Fax 339772.

Saibex Network, 27/36, Dwarkadas Bhavan Dr Murid Elphinstone (W), Opp. Station **Mumbai 400013** Tel 4312

Sam Computer Consultants, Arjun Nagar Crossing **Agra** 368155.

San Telequip Pvt Ltd, F-7, Paresh Industrial Complex road **Pune 411037** Tel 655970, Fax 642996.

Sanjivini Computers, 13-A, J&K Extension Laxmi Nagar Tel 2227351.

Sanral Computer consultants Pvt Ltd, C-145 Surajmal **110092** Tel 2147117, 2151020, Fax 6823508.

Saransh Technologies, A 3-12, Annapurna Ashirwad Society Aundh **Pune 411007** Tel 360872.

Schancliff Computer Solutions, 41/5, Krishna Niwas Estate 390-A, NM Joshi Marg **Mumbai 400011** Tel Fax 3075394.

School Of Computer Studies, 99, 17th Cross **Bangalore 560055** Tel 3341300.

Sentronix, Shop No 4, 21, Mahalakshmi Street T Nagar Tel 4343542, Fax 5225577.

Servitronics, 11, Konark Udyog 43/2, Karve Road 330927, 347926, Fax 347927.

Sharp Systems, 74, J Jadhavji Building, TG Path **400004** Tel 3821685, 3864485, Fax 3877358.

Shaw Hotels & Consultancy Services Pvt Ltd, Union Insurance Building P. M. Road, Fort **Mumbai 400001** Tel 2870631.

Shreeji Computer Services, 8 MIG, Sector 1 Shankar Nagar Kripa **Raipur 492007** Tel 423723, Fax 510510.

Shreenathji Electronics, Shreeji Kripa 8, MIG Shankar Nagar **Raipur 492007** Tel 423723, Fax 510510.

Shyam Computers, 102, Rajnigandha Tower Near Shahibaug **Ahmedabad 380004** Tel 2113615, 7868487.

SiLicon Interfaces, Kamnwala Chambers Sir PM Road Tel 2663326, Fax 2672636.

Siemens-Nixdorf Information Systems Pvt Ltd, 4962551, 4963818, Fax 4930259.

Significant Software Solutions, B-52, Somdutt Chambers Cama Place **New Delhi 110066** Tel 6183779.

Silent Graphics, 8/10, Bijoy Graph Ground Floor Near **Calcutta 700032** Tel 722341.

Silicon Holdings & Finance Pvt Ltd, 103/A, Virwani Goregaon (East) **Mumbai 400063** Tel 8753709.

Silverline Industries, Unit 121, SDF IV SEEPZ Andheri (E) Tel 8368950, Fax 8372199.

Softchip Consultants, 33 Kalpana Second Pasta Lane **400005** Tel 2852373, Fax 2836726.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

A unique opportunity for the IT industry

Virtual CSI-96

India's virtual trade show on the Internet

HIGHLIGHTS
PAVILIONS
CONVENTION
REGISTRATION
VIRTUAL CSI-96
ABOUT CSI

Participate in Virtual CSI-96 and let the world know what you have to offer.

CSI-96, the largest IT user event, *with a full fledged convention and exhibition will be held in Bangalore from 30th October to 3rd November, 96.*

The comprehensive focus pavilion approach and other features has evoked a very good response for CSI-96. Spurred on by the response and to make CSI-96 a mega event, a new global dimension has been added by offering ***Virtual CSI-96*** *on Internet. This will help you to reach prospective customers around the world.*

What does the Web Site offer?

- *A tour of every participating company*
- *The latest online info on all events, excerpts of keynote address and conference proceedings*
- *Display of products through Virtual exhibition (Electronic company brochures)*
- *Down loadable company presentations with multimedia facilities like real time audio and animation (shock wave) files*
- *Participation in online discussion with company experts*
- *Virtual tour of Bangalore*
- *Registration.*

How to participate?

Web Site Sponsor

The sponsor will be entitled to a space for company banner prominently displayed on all pages including the CSI Web Site page. The sponsor will get 10 pages for information about the company. Only five sponsorships are available.

Pavilion Site Sponsor

The sponsor will be entitled to a space for company banner displayed prominently on the chosen pavilion pages. Pavilion includes: Media Solutions, Banking & Finance Solutions, Communication Solutions, Home PC, Internet, Spectrum and Manufacturing. The sponsor will get 5 pages for information about the company. Only three sponsorships per pavilion are available.

Virtual CSI Participant

The participant will have company logo displayed in the respective pavilion category. Participant will get one page for the company information.

We can also help you design pages and Web multimedia presentation.

Visit us on the Web today at: http://www.indiaexpress.com/csi

The Web Site will be active till 30th November, 96.

Confirm your participation before 31st July, 96 and avail of Early Bird Offer.

For more details and cost of sponsorship, participation and presentation design, contact:

Cyberexpo, 401, 4th Floor, MBC, 134, Infantry Road, **Bangalore** - 560 001.
☎ 080 - 2861511, 2868238 Fax: 080 - 2862971
Calcutta: Tel: 033 - 2471285, 406492, 406810, 408355 Fax: 033 - 408423
Delhi: Tel : 011 - 6416315, 6476664 Fax : 011 - 6411692
Madras: Tel: 044 - 459498 Fax: 044 - 8252828.
Mumbai: Tel: 022 - 6427910, 6450050, 6450051 Fax: 022 - 6403986.

COMPUTER SOCIETY OF INDIA
ESTD 1965

CSI-96

The Power of Focus

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Softek, M-42 Commercial Complex Greater Kailash-II **New Delhi 110048** Tel 6415312, 6447308, Fax 6482680.

Softline Software Services Pvt Ltd, 6-3-659/1, Kapadia Lane Somajiguda **Hyderabad 500482** Tel 311052 , 396674, Fax 396674.

Softlink Exports, 310, Kharek Bazar 1st Floor, Masjid Bunder Narshi Nath Street **Mumbai400009** Tel 3439545, 3439572, Fax 4153054.

Softlink Services, 15, Samhita Complex, Building No 17 Jeevan Silk Mills Lane Off Andheri Kurla Road **Mumbai 400072** Tel 8512030, 8512034, Fax 8512419.

Softman Consultancy Services, 127/4, Ramkripa Near Bank of Baroda Smarthnagar **Auragabad 431001** Tel 335215, 338023.

Softplus Computer Services, G-9/10, C-Wing, Opp. Badal Cinema Balgovind Society, Mahim **Mumbai 400016** Tel 4363565, 4225519, Fax 4071523.

Softsolutions, 2, Vinayagam Street West Mambalam **Madras 600033** Tel 4822487, 4822341, Fax 4831748.

Softstar Computer Consultancy Pvt Ltd, 606, Software Technology Park, Maitrivanam, S R Nagar, **Hyderabad 500038** Tel 296446, 291476, Fax 290345,.

Softview, 40, Nelson Manickam Road **Madras 600029** Tel 4836471, Fax 6213171.

Software & Consultancy Services, 17, B-5, Sector 8 Rohini **New Delhi 110085** Tel 7276899.

Software India Corporation, G-24, Gokuldham Shopping Centre Gen AK Vaidya Marg Goregaon (E) **Mumbai 400063** Tel 8408013, 8403846, Fax 8403929.

Software Options (India) Pvt Ltd, G-7, Sidhpura Industrial Estate SV Road Goregaon (W) **Mumbai 400031** Tel 8741496, 8745225, Fax 4135883.

Solid Electronics, A-24, Ghanshyam Industrial Estate Veera Desai Road Andheri (W) **Mumbai 400053** Tel 6267855,6269139, Fax 6290442.

Somay Systems, 30/41, Roshan Villa Street No 8 Vishwas Nagar **Delhi 110032** Tel 2467036, Fax 2229175.

Sonata Software Ltd, 1/4, 1st Floor, APS Trust Building Bull Temple Road, Basavanagudi **Bangalore 560019** Tel 6610330, 6610862, Fax 6610972.

Sowswe Electronics Pvt Ltd, 1, Sivagnanam Street T Nagar **Madras 600017** Tel 4340694, 4345842, Fax 4343734.

Span Sales International, 408, Commerce House 9/1 Cunningham Road **Bangalore 560052** Tel 2263002.

Sparrow Electronics Pvt Ltd, 344, Raheja Arcade, 1/1, Koramangala Industrial Area **Bangalore 560095** Tel 5531568, 5535874, Fax 8520994.

Spectra Innovations (India) Pvt Ltd, Unit S-822, Manipal Centre 47 Dickenson Road **Bangalore 560042** Tel 5588323, Fax 5588872.

Spring Time Softwares Pvt Ltd, 4th Floor 2709/13, Ranjit Nagar **New Delhi 110008** Tel 5709528.

Square Services, 107/73 A, East Azad Nagar Krishana Nagar **Delhi 110051** Tel 2421325, 2428126, Fax 2217985.

Square-D Electricals, 68/1, 1st Main Road Seshadripuram **Bangalore 560020** Tel 3366103,, Fax 3366103.

Sri Bhuwan Computers, Kalyanpur, Opp. Veterinary Hospital P.O. NIFFT, Hatia **Ranchi 834003**.

Sri Raghavendra Softwares, 3/G, "Suryakiran" 11th Cross Street Indira Nagar, Adyar **Madras 600020** Tel 416801.

Srujana Technology, 1037, Dr Rajkumar Road, 4th Block Rajajinagar **Bangalore 560010** Tel 3303175, 3380710, Fax 3324848.

Srushti Compsoft Pvt Ltd, C-1, Bhagya Nagar Behind Citylight Cinema Mahim **Mumbai 400016** Tel 4451465, Fax 4460119.

Stride Systems, 8, Sagar Sahwas, Golf Link Road Union Park **Mumbai 400052** Tel 6461884, Fax 6490469.

Struct CADD Sector, 8, 1st Floor, 1st Cross Street Sastri Nagar **Madras 600020** Tel 4912923.

Sunrise Computers & Networks, 167, 14th Cross West Park Malleswaram **Bangalore 560003** Tel 3341417,3313888, Fax 3

Super Bartronics Ltd, 6-3-864/1/1, Siddhi Vinayak Ameerpet **500016** Tel 3320690, 313959, Fax 291314.

Super Media Ltd, 307, Mahesh Industrial Estate Kashi **Mumbai 401107** Tel 8119137, 8118115, Fax 8119318.

Supra Computers, 19, Deendayal Colony Durga Kund, **Varanasi 221010** Tel 312176.

Supreme Technologies, 10, Nishiganda Apartments Chinchwad **Pune 411033** Tel 792635, 792636, Fax 792

Suvik Electronics, Plot 102, GIDC Engineering Estate **Gandhinagar 382028** Tel 22584, 22680, Fax 20112.

Sweet Home Multimedia, 12, Sabarang Apartments 5, Gorepeth **Nagpur 440010** Tel 529706.

Symphony Engineers, B/2, Surhud Society Near Mehendale Erandawane **Pune 411004** Tel 343217.

Synergy Consultancy Services, 209, City Centre 570, M. G **Indore 452003** Tel 537638, Fax 433721.

Syscon Computers Pvt Ltd, 7, KM Munshi Marg L N H O Chowpatty Road **Mumbai 400007** Tel 3636547, Fax 3636547.

Sysman Computers Pvt Ltd, 7, Habib Terrace Dr BR Ambedkar Lalbaug **Mumbai 400012** Tel 4137122, Fax 4137122.

Systems Creator, 27, Khati Industrial Estate, Laxminagar (W) **Mumbai400090** Tel 8758716, 8711848.

TBYB Computer Info-Line, M. E. Business Centre 210 Sterling M. G. Road **Pune 411001** Tel 638403, Fax 629379.

TVS Electronics, 10-B, Phase-I, Post Box No.5805 Peenya Area **Bangalore 560058** Tel 8395000, Fax 8396334.

Tagore's Electronic Lab, B-3A, Raja Nabakrishna Street centre) **Calcutta 700005** Tel 5555538, Fax 5558663.

Target Computers, No 39, Thirumalai Pillai Road T Nagar **600017** Tel 8231546.

Target Marketing, G-192, Sanjay Building No.5 Mittal Industrial Andheri Kurla Rd., Marol **Mumbai 400005** Tel 8344221, Fax 835495.

Tata Consultancy Services, Maker Towers E Cuffe Parade **Mumbai 400005** Tel 2186782, 2189068, Fax 2188442.

Tata Elxsi, 123, Richmond Road **Bangalore 560025** Tel 564835, Fax 5583168.

Tata Information Systems, Golden Enclave Airport Road **560017** Tel 5267117, 5269299, Fax 5277404.

Tata Liebert Ltd, Plot No. C-20, Road No.19 Wagle Industrial **Thane 400604**.

Tata Unisys Ltd, 80, Feet Road Indiranagar **Bangalore** 5284681, Fax 5284491.

Team Engineers, 2-2-647/227, CE Colony New Nallakunta **500013** Tel 614412, 601728, Fax 842477.

Tech Systems, 23/H Satchasi Para Lane **Calcutta 700036**

Technic Electronic Corpn, Aurora Compound Quarry Road **Mumbai 400078** Tel 5603791, 5688872, Fax 5670400.

Technofab, 967/10, GIDC Estate Makarpura **Baroda 390010** Fax 444239.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

(India) Ltd, Tek Tower, Hayes Road **Bangalore 560025** Tel
2275577, Fax 2275588.

Care, 14A/1 WEA Karol Bagh **New Delhi 110005** Tel 5725252,
Fax 5726612.

Information Technology, 26, Tagore Garden
Fax 5726612.

Electronics Pvt Ltd, 1st-2nd Floors, APEL Complex
Hyderabad 500062 Tel 621314, 624146, Fax 623529.

Communications, 58/A, Mohan Tower 50, Residency Road
560025 Tel 2270426, 2239881, Fax 2270426.

Systems Ltd, 1st Floor, 96, T.T.K. Road Alwarpet **Madras**
Tel 4993927, 4990544.

Multimedia, 12, Riddhi-Siddhi Shopping Complex Near
Bank, Dahisar (E) **Mumbai 400068** Tel 8936303, 8942461,

Systems, 95-J, Prasad Chambers East Arrokkiasamy Road RS
Coimbatore 6410002 Tel 449414.

Windware, Rampuria Street **Bikaner 334005** Tel 524381.

Research & Holdings Pvt Ltd, 15th Cross, 2nd Block RT Nagar
560032 Tel 3333797, Fax 3331567.

Associates, 39 Cathedral Road, **Madras 600086** Tel
Fax 8264925.

636 Dr Mukherjee Nagar **Delhi 110009** Tel 7250279,
Fax 7258905.

System, 151 Eldams Road Teynampet **Madras 600018**
454491, Fax 454672.

System Associates, Shiv Ashish H-134 Shivalik Nagar **Hardwar**
Tel 440191, Fax 440791.

Business Solutions, G-2, Ambedkar Nagar Golanji Hill Parel
400012 Tel 4129380.

Computer Systems, 164 Senapati Bapat Marg Matunga (W)
400016 Tel 4374671, Fax 4376265.

Computers, 31/107, Sahu Building Opp. Fire Station, Hazratganj
Lucknow 226001 Tel 226576, Fax 380155.

Informatics Pvt Ltd, Pal Mohan Sadan 26/32, East Patel Nagar
Place **New Delhi 110008** Tel 5751505, 5763558, Fax 5741404.

Print Systems, No 9, Montieth Lane Egmore **Madras 600008**
8554286, Fax 8554803.

Systems Ltd, 1-1-156, Alexander Road Behind Hari Hara Kala
Secunderabad 500003 Tel 802262, 802242, Fax 803343.

Tech Services, A-29, 2nd Floor Near Holychild School Tagore
Extension **New Delhi 110027** Tel 5448543, Fax 5726612.

Software, Office No.118, 1st Floor, Veena Beena Shopping Cen
Link Road, Bandra (West) **Mumbai 400050** Tel 6430668, Fax

Instruments, 168, 7th Main, 1st Block Koramangala **Bangalore**
Tel 5532094, 5531680, Fax 5530691.

Instruments Ltd, 168, 7th Main, 1st Block Koramangala **Bangalore**
Tel 5532094, 5531680, Fax 5530691.

Group of Engineering, Chauria Complex Satti Bazzar **Raipur**
24709, 535220.

Computer Services, LUZ House 18, Baliah Avenue Luz Church
Mylapore **Madras 600004** Tel 4993042, 4992615, Fax 4991035.

International, 104, Parishram Shrikant Palekar Marg, Chira
Mumbai 400002 Tel 2096668, 2058848, Fax 3432003.

CADD Solutions, 5/41, Pujan Appts Near Jivraj Mehta Hospital
Ahmedabad 382007 Tel 6612294, 416612, Fax 5355693.

Vetri Software (India) Ltd, 3rd Floor, Thiru Building 160, Greams Road **Madras 600006** Tel 8272066, 827345, Fax 8272528.

Vinayaka Systems & Software Pvt Ltd, 15, Laxmi Market, Pali Marwar Rajasthan **Pali Marwar 306401** Tel 25225, Fax 20149.

Vision Software, No 40, Burkit Road T Nagar **Madras 600017** Tel 4341583, Fax 4840596.

Wanland, 231 Keytuo Industrial Estate Kondivita Road Andheri (East) **Mumbai 400059** Tel 8353636, 3871790, Fax 8367765.

Waveforms, 24, North Mada Street Srinagar Colony Saidapet **Madras 600015** Tel 2352956, 2351498.

We Care Infosys, A-1, Sussex Ind. Estate, Dadoji Konddeo X Road Byculla (E) **Mumbai 400027** Tel 3734450,3731741, Fax 3780982.

Whizkids Software, B-247, Lok Vihar **Delhi 110034** Tel 7189981, Fax 2923261.

Windsor Graphics Pvt Ltd, Janvilla, 9-2519, Janvilla Lane Sasthamangalam Road **Trivandrum 695010** Tel 65190, 67745.

Wings Business Systems Pvt Ltd, Banjara Barkat Combine, Darus Salam Queens Road **Bangalore 560052** Tel 2260674, 2265628.

Winners Computer Services, No 969/29, 2nd Floor, Above Vyasa Refreshments Opposite ESI Hospital, 2nd Block Rajajinagar **Bangalore 560010** Tel 3357322.

Winoj Softwares, 148, Konnur High Road **Madras 600023**.

Winsoft Consutlants, 41, Dhairyavir, 8th Road, Juhu scheme **Mumbai 400049** Tel 6246481, 6205918, Fax 6208096.

Winsoft Technologies (I) Pvt Ltd, B-7, Neelkanth Kutir Station Road Bhandup (W) **Mumbai 400078** Tel 5676013, 5682108, Fax 5676013.

Wipro Acer, 88, MG Road **Bangalore 560080** Tel 5588616, 5588422, Fax 5586952.

Wipro Infotech, 40/1A, Basappa Complex Lavelle Road **Bangalore 560001** Tel 2270359, 2270376, Fax 2270378.

Wipro Ltd, Software Product Division 40/1A, Lavelle Road, 3rd Floor, Basappa Complex **Bangalore 560001** Tel 2218962, Fax 2218590.

Wipro Peripherals, 40/1A, Bassappa Complex Lavelle Road **Bangalore 560001** Tel 2270359, 2270360, Fax 2270378.

Wizz O Tech, 119-120, Anand Mangal Behind Omkar House, C G Road Naurangpura **Ahmedabad 380009** Tel 6568850, Fax 6427008.

Worldwide Technologies Ltd, 508 Meghdoot 94, Nehru Place **New Delhi 110019** Tel 6443033, 6443725, Fax 6474515.

Wye Enterprises, 4, 5th Street Nandanam Extension **Madras 600035** Tel 4340186, 456632, Fax 4340186.

Wyse Systems, Survey No 82/1 Plot 20, Parvati Sahakarnagar No.1 **Pune 411009** Tel 424058, 420486.

XON Communications, 19 Casa Major Road, Egmore **Madras 600008** Tel 8258336, 8260124, Fax 8283226.

Xpert Systems, 27/2, I Floor 17th Cross Malleswaram **Bangalore 560055** Tel 3311512, 3310309, Fax 2274699.

Zedd Computer Consultants, 49 Ezra Street **Calcutta 700001** Tel 255704, 4408926, Fax 4408935.

Zener Controls, 11, Ganapathy Colony Off Chamiers Road **Madras 600018** Tel 453512, 458664, Fax 1915319.

Zon Marketing, B 2/79, 4th B Cross New Town Yelahanka **Bangalore 560064** Tel 8462369, Fax 251468.

Zyfax Sytems Pvt Ltd, Jehangir Building, 4th Floor 133, MG Road, Fort **Mumbai 400023** Tel 2674270, 2675607, Fax 2656802.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Travel Organiser For Frequent Flyers

Inter Continental Computer Systems, Delhi, has launched Travel Organiser for organizing your travel plans within a specific time frame. The built-in scheduler checks air and train time-tables to offer you the best possible schedule. The package also provides hotel information depending on selection criteria such as location and room rent. The system database contains a comprehensive listing of hotels around the country with their telephone numbers, room charges, facilities, and distance from the nearest airport or railway station. The package also contains a map of India, with all the state and city maps for ready reference. It also lists places of interest near major cities, important telephone numbers, as well as addresses of restaurants, embassies, bars, 24-hour chemist outlets and cinema halls.

Indian SubContinental Office For Microsoft

In an effort to meet growing business demands while increasing international investment, Microsoft Corporation will open in Bangalore, a new regional office for India, Pakistan, Nepal, Sri Lanka, Bangladesh, Maldives and Bhutan, in July. Part of an expansion programme, the Middle East and Africa will be served by a similar office, whose location has yet to be announced. The Bangalore office will be headed by Sanjiv Parthasarathy, formerly Director of Microsoft's Internet Security Products unit. The existing Managing Director (India), Rajeev Nair will oversee the company's ongoing investments.

PLATINUM's RDBMS Utilities Come To India

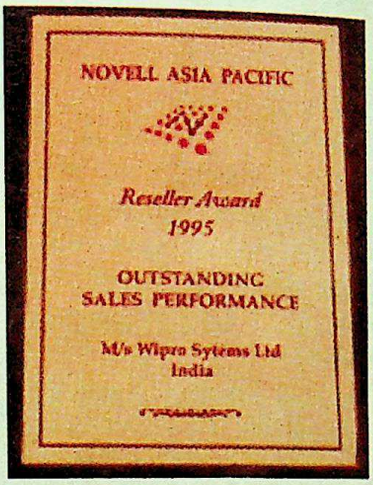
PLATINUM *technology* has entered India in association with Ashok Leyland Information Technology, Bangalore. PLATINUM specializes in intelligence tools, optimizing, and housekeeping software for RDBMSs. Products such as Desktop DBA, SQL Spy, SQL Coder, SQL Commander and Log Analyzer, offer cross-platform compatibility and allow simultaneous access to almost all standard RDBMS apps.

Internet Complete

Rediffusion On The Net and Microsoft Corporation India, have launched Internet Complete, a new package for the Net. This low-cost (Rs 1,600) software offers Indian subscribers a single point solution to the Net. It includes a year's subscription to Rediff On The Net (http: www.-rediff.co. in), Internet Explorer 2.0, a Personal Guide to the Net, a VSNL application form for Internet access, and technical support from authorised dealers.

Wipro Wins Outstanding Novell Reseller Award

Wipro's Software Products Division has been awarded the Outstanding Novell Reseller for the Asia Pacific region Wipro is the first Indian reseller to receive such an international recognition from Novell.



Application Development By PCL For Wilken

Mindware, PCL's Software Export Division, has set up a Dedicated Software Development Lab at Bangalore for its German partner, Wilken GmbH. The Lab is involved in application development for client/server environments and it will operate for two years, with the cumulative effort amounting to about 30 man-years. Mindware provides on- and off-site and off-shore services through such Labs, as well as remote maintenance, product development, turnkey projects and on-site consultancy.

Cisco Networks India

Routers supplied by Cisco Systems (http-://www.cisco.com), the world's largest supplier of inter-networking s... have been used to co... Vijaya Bank bran... Mumbai. This networ... cilitate "On-line Any ... Banking Service" wh... lows customers to u... Bank's services irresp... location. In the projects ... phase, this will be extended ... cover other major branches ... Mumbai and elsewhere. ... routers have also been ... sen for Sterling Holida... sorts. These are being ... connect the independent ... at each site. This ... Sterling's network a... largest private intra... for online transaction pro... ing.

HP Unveils Its Commercial Hardcopy Strategy

Hewlett-Packard ... announced a ... term strategy for ... tal Workplace; its ... lion dollar commercial ... copy business. The ... capitalizes and focuses ... three areas: a shift from ... and-distribute to a distri... and-print where digi... formation is shared ... printed on an as-needed ... sis; accelerated use of ... Internet for information ... change; and a shift ... copying to "MOPying" ... tiple Original Printing ... a laser printer instead ... copier.

Samsung Develops Personal Communicators

Korea's Samsung ... tronics has ... $26 million ... year R&D project to develop ... prototype code division multiple access (CDMA) personal communication services ...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

...ers and terminals. PCS is ...r generation communi... a medium that promises ...pensive access any time, ...y place, for any one and is ...ing set up in Europe, the US ...d Japan. The current sys... uses CDMA technology ...d is expected to be fully ...ilable by early 1998.

...w Scanners ...m Agfa

Agfa has introduced three new scanners—DuoScan, Horizon Ultra and SelectScan Plus. DuoScan, an A4 flatbed scanner uses a TwinPlate concept to increase color consistency, scanning resolution, and speed while reducing mechanical complexity. DuoScan scans transparencies and reflective copies within a single unit. Its transparency unit has a slide holder for slides up to 8"x10" with dedicated holders for 35 mm, 6x6 cm and 4"x5" films. Horizon Ultra is an A3 flatbed CCD scanner that scans color images at a resolution of 600x1200 pixels per inch (ppi). Line art and grey scale originals can be scanned up to 2,540 ppi, and later enlarged up to 800 percent. SelectScan Plus contains a 5,000-element, linear array CCD that provides a wide density and range, with resolutions up to 8,000 ppi. Using SelectScan Plus, you can enlarge a 35 mm slide by 3,500 percent for high-quality reproduction.

...bletron To ...quire Network ...press

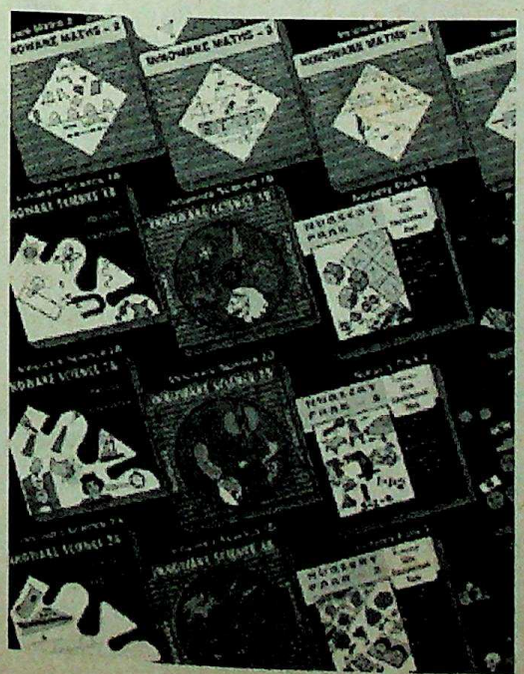
Cabletron Systems and Network Express have announced their merger. Network Express is a provider of low-cost, high-speed switched access ISDN communication solutions. The merger launches Cabletron, the world-wide modular hub market leader, into the rapidly expanding market of ISDN internetworking. Using ISDN, the combined entity will provide quick, reliable and inexpensive solutions for geographically isolated organizations and individuals to communicate effectively.

Symantec Software From SVAM

SVAM Software has been appointed Indian distributor for Symantec's products. These include Norton Utilities, Norton Navigator, Norton Anti-Virus for Windows 95, PC Anywhere, and Symantec C++, for both 16-and 32-bit platforms. Delrina's WinFax Pro, and Form Flow will also be sold in India.

Innovation Introduces Edutainment CD-ROM Titles

Innovation Software Exports, Madras, have developed a suite of 20 Windows-based edutainment CD-ROM titles for children from four to 16. The titles are available in five categories: Nursery, Primary, Secondary, Secondary Science and General. The subjects range from *ABC Playground For Toddlers* to *Learn And Test Your Knowledge On Sybase*. Each CD-ROM costs Rs 2,000, and is also available on diskette for Rs 2,500.. 3,000.



Wipro To Implement UTI Bank Network

Wipro's Communication and Internet Division will set up a corporate WAN for UTI Bank over 64 kbps leased lines. These will connect all UTI's branches across the country with its Mumbai headquarters. Customers will be able to access their bank accounts through the "Anytime Anywhere Banking" facility from any UTI branch.

DoT Training Order For Uptron

Uptron India has received an order worth Rs 5 million for training over 21,000 employees of the Department of Telecommunication (DoT). Besides Mumbai and Calcutta, DoT employees in Uttar Pradesh, Madhya Pradesh, Andhra Pradesh, Kerala, Haryana, Himachal Pradesh, and Jammu and Kashmir will be covered under this training programme. Uptron has a network of 70 training centres, Uptron ACL, all over India. These centres are accredited with the Department of Electronics for its 'O' and 'A' level courses, whose syllabus includes Windows 95, multimedia, e-mail, Oracle, OOPS, and C++.

Remote Access Networking Systems From 3Com

3Com has introduced the AccessBuilder 7000 Access Concentrator to its family of end-to-end systems for building secure, fault tolerant intranets and remote access networks. This Ethernet device is flexible and modular, and mates a high-density chassis with multiple analog, ISDN and WAN/leased line technology modules for LAN-to-LAN connectivity. When connected to a Web server, the AccessBuilder 7000 can be used to concentrate Internet traffic as well as share information between central and remote sites.

Turnkey Internet Packages from Bay Networks

Bay Networks has teamed up with UUNet Technologies to offer turnkey Internet packages—Instant Internet Provider Packs—that bundle LAN-to-Internet technology from Performance Technology. The Packs will be ISDN-enabled to target the bandwidth requirements of medium to large organizations and are designed to connect 50 LAN users to the Internet using a box. Target LANs can include any version of NetWare and other applications that use IPX as the primary or secondary protocol.

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

112294

Digitized by Arya Samaj Foundation Chennai and eGangotri

School Management System From Silverspoon

Silverspoon Informatics has launched a Windows 95 compatible school management system. It includes modules such as Administration, Accounts, Teachers, Library and Principal. These handle specific assignments including creating master databases for students, employees, and library books, and are accessed through drop-down menu.

Concert Offers InternetPlus

British Telecom-MCI's Concert, has launched InternetPlus, a high-speed, high-reliability global Internet backbone. It combines the two companies' existing Internet networks into eight new regional Internet "superhubs". By next year, these will expand to 20 hubs at key locations across the globe. Concert's InternetPlus services will provide Internet service providers, international carriers and businesses with an array of Internet and intranet transport, dedicated and dial up access, and value-added services available from more than 1,200 locations in 70 countries.

Intel Intros Networking Products In India

Intel has released its Fast Ethernet, LANDesk Management, and ProShare, a video conferencing software in India. These will help improve network reliability while slashing support costs. Intel is positioning Fast Ethernet as an alternative to switched 10 Mbps solutions that form most installed networks today.

Dezign Lab Ties Up With Voxtron

Delhi-based Dezign Lab, which specializes in digital and voice communication systems, has entered into a joint venture with Voxtron Holdings, Luxembourg, a leader in interactive voice response systems who provides solutions to the banking and financial sectors. Voxtron Dezign Lab will open offices in eight metropolitan cities across India and also set up a full-fledged R&D and production center for voice processing hardware and software.

New Chips To Ease Digital Commmnication

SGS Thomson Microelectronics and WorldSpace will develop and produce chip sets for next generation satellite radios. Besides direct-to-listener services in Asia, the Middle East, Africa, Latin America and the Caribbean, WorldSpace satellites will also offer text, fax, e-mail, paging and slow-motion video. Receivers for the new services will be based on Starman, a chip set developed by SGS-Thomson. Three chips—Analog Front-End, Channel Decoder and Source Decoder—will perform the receiver and decoder functions. Sample chip sets will be available for evaluation to receiver manufacturers by 1997.

Microsoft To License Java Technology

Microsoft announced at its Professional Developers' Conference that it had concluded an agreement to license Sun Microsystems' Java technology for inclusion in ... products. Microsoft ... compatible tech... codenamed "Jakarta" ... also demonstrated a ... ference. One ... technologies demo... showed how Java ... objects could be ... using ActiveX&trade... velopment tool for ... and the Internet. Mi... stated that its Inter... plorer for Windows ... would, in future, allow ... to run Java applets ... Web, and promised to ... a Java development ... ing its Developer S... nology.

Seminars And Exhibitions

PC EXPO '96

PC EXPO '96
Calcutta: 18-20 July 1996 at Ice Skating Rink
New Delhi: 9 - 11 August 1996 at Taj Palace
Mumbai: 15-18 January 1997 at Nehru Centre
Bangalore: 23-25 January 1997 at Holiday Inn
Contact: PC Expo, 4th Floor, MBC Centre, 134 Infantry Road, Bangalore 560001. Tel: 80-5511511, 5568238, 5579862 Fax: 80-5562971

AUGUST

Seminar on Audit and Security of UNIX-based Operating Systems
27-30 August 1996
Contact: Samantha Roper, MIS Training Institute, Nestor House, Playhouse Yard, London EC4V 5EX Tel: 44 171 7798944 Fax: 44 171 7798795 Internet:http://www.misti.com

OCTOBER

XII National Convention Of Electronics And Telecommunication Engineers (NACET-96)
9-11 October 1996
Contact: NACET-96 ... stitution of Engineers ... Observatory Hill, Tru... 695033. Tel: 471-2... 437419

Asian IT EXPO'96
The 7th Asian ... Technology Exhibi... October 1996
Contact: Adsale ... Services Ltd, 14 ... House, Taikoo Place, ... Road, Quarry Bay, H... **Tel:** 852-2811888 Fa... 25165024

DECEMBER

Call For Papers (Na... tional Conference on K... ledge-based (expe... Systems)
16-18 December 1996
Contact: KBCS-96 ... tariat, National C... Software Technolog... mohar Cross Road ... Juhu, Mumbai 400 ... **Tel:** 22-6201606 Fa... 6210139 **E-mail:** ... konark.ncst.ernet.in ... **net:** http://konark... ernet.in/~kbcs/kbcs9...

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

Compiled
1999-2009

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri

CC-0. In Public Domain. Gurukul Kangri Collection, Haridwar

Digitized by Arya Samaj Foundation Chennai and eGangotri